

# NetXMS Data Dictionary

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# Introduction

This document describes the structure and relationships of all tables, indexes, and constants within the NetXMS monitoring system. It is intended for report developers and administrators who need to understand the internal structure of the system.

## Tables

### ACCESS\_POINTS

List of known access points, as collected from wireless controllers.

#### Columns

| Name                                                                                 | Type         | State    | Default | Description                                                                                                   |
|--------------------------------------------------------------------------------------|--------------|----------|---------|---------------------------------------------------------------------------------------------------------------|
|  id | INTEGER      | NOT NULL | ∅       | ID of the object. Reference to <a href="#">OBJECT_PROPERTIES</a> .                                            |
| node_id                                                                              | INTEGER      | NOT NULL | ∅       | ID of the Node object representing this access point. Reference to <b>id</b> field in <a href="#">NODES</a> . |
| mac_address                                                                          | VARCHAR(12)  | NULL     | ∅       | Access point mac address                                                                                      |
| vendor                                                                               | VARCHAR(64)  | NULL     | ∅       | Access point vendor                                                                                           |
| model                                                                                | VARCHAR(128) | NULL     | ∅       | Access point model                                                                                            |
| serial_number                                                                        | VARCHAR(64)  | NULL     | ∅       | Access point serial number                                                                                    |
| ap_state                                                                             | INTEGER      | NOT NULL | ∅       | Current state of the access point                                                                             |
| ap_index                                                                             | INTEGER      | NOT NULL | ∅       | Reserved for future use                                                                                       |

#### Indexes

| Name               | Type   | Fields |
|--------------------|--------|--------|
| access_points_pkey | UNIQUE | id     |

## ACL

Access control for objects (nodes, containers, etc.). Does not keep actual permissions for all objects. Effective rights are calculated in the runtime by the server based on the ACL inheritance setting and hierarchy.

## Columns

| Name                                                                                        | Type    | State    | Default | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------|---------|----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  object_id | INTEGER | NOT NULL | Ø       | ID of the object. Reference to <a href="#">OBJECT_PROPERTIES</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|  user_id   | INTEGER | NOT NULL | Ø       | ID of the user or group. Reference to <a href="#">USERS</a> or <a href="#">USER_GROUPS</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| access_rights                                                                               | INTEGER | NOT NULL | Ø       | Bitmask of the permissions. Possible flags: <ul style="list-style-type: none"><li>• 0x00000001 – Read</li><li>• 0x00000002 – Modify</li><li>• 0x00000004 – Create child objects</li><li>• 0x00000008 – Delete</li><li>• 0x00000010 – View alarms</li><li>• 0x00000020 – Access control</li><li>• 0x00000040 – Update alarms</li><li>• 0x00000080 – Send events</li><li>• 0x00000100 – Control</li><li>• 0x00000200 – Terminate alarms</li><li>• 0x00000400 – Push data</li><li>• 0x00000800 – Create helpdesk tickets</li><li>• 0x00001000 – Download files</li><li>• 0x00002000 – Upload files</li><li>• 0x00004000 – Manage files (renamed, delete, etc.)</li><li>• 0x00008000 – Control maintenance mode</li></ul> |

## Indexes

| Name     | Type   | Fields            |
|----------|--------|-------------------|
| acl_pkey | UNIQUE | object_id,user_id |

# ACTIONS

Server actions used in event processing.

## Columns

| Name                                                                                        | Type         | State    | Default | Description                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  action_id | INTEGER      | NOT NULL | Ø       | Action ID.                                                                                                                                                                                                                                                                                                                                |
| action_name                                                                                 | VARCHAR(63)  | NOT NULL | Ø       | Name of the action.                                                                                                                                                                                                                                                                                                                       |
| action_type                                                                                 | INTEGER      | NOT NULL | Ø       | Type of the action: <ul style="list-style-type: none"><li>• 0 – Execute command on the management server</li><li>• 1 – Execute command on the remote agent</li><li>• 2 – Send email</li><li>• 3 – Send SMS</li><li>• 4 – Forward event to another server</li><li>• 5 – Run NXSL script</li><li>• 6 – Send XMPP (Jabber) message</li></ul> |
| is_disabled                                                                                 | INTEGER      | NOT NULL | Ø       | State of the action: <ul style="list-style-type: none"><li>• 0 – Enabled</li><li>• 1 – Disabled</li></ul>                                                                                                                                                                                                                                 |
| rcpt_addr                                                                                   | VARCHAR(255) | NULL     | Ø       | Receipient address for SMS and email actions.                                                                                                                                                                                                                                                                                             |
| email_subject                                                                               | VARCHAR(255) | NULL     | Ø       | Subject line for email action.                                                                                                                                                                                                                                                                                                            |
| action_data                                                                                 | TEXT         | NULL     | Ø       | Action data field. Meaning depends on the action type. For email/SMS – message body, for server execute – path to the application, etc.                                                                                                                                                                                                   |
| guid                                                                                        | VARCHAR(36)  | NOT NULL | Ø       | Action GUID                                                                                                                                                                                                                                                                                                                               |
| channel_name                                                                                | VARCHAR(36)  | NULL     | Ø       | Notification channel name                                                                                                                                                                                                                                                                                                                 |

## Indexes

| Name | Type | Fields |
|------|------|--------|
|------|------|--------|

|              |        |           |
|--------------|--------|-----------|
| actions_pkey | UNIQUE | action_id |
|--------------|--------|-----------|

## ADDRESS\_LISTS

List of network ranges and subnets used by network discovery.

### Columns

| Name                                                                                           | Type         | State    | Default | Description                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  list_type    | INTEGER      | NOT NULL | Ø       | Purpose of the record: <ul style="list-style-type: none"> <li>• 1 - Active discovery target</li> <li>• 2 - Address discovery filter</li> </ul>                                                              |
|  community_id | INTEGER      | NOT NULL | Ø       | Reserved for future use                                                                                                                                                                                     |
|  addr_type    | INTEGER      | NOT NULL | Ø       | Type of the record: <ul style="list-style-type: none"> <li>• 0 - Subnet, field <b>addr2</b> indicates netmask in CIDR format</li> <li>• 1 - Range, field <b>addr2</b> indicates end of the range</li> </ul> |
|  addr1        | VARCHAR(48)  | NOT NULL | Ø       | Network address or start of the range address.                                                                                                                                                              |
|  addr2        | VARCHAR(48)  | NOT NULL | Ø       | Network mark in CIDR format or end of the range address.                                                                                                                                                    |
| zone_uin                                                                                       | INTEGER      | NOT NULL | Ø       | Zone unique identification number from <a href="#">ZONES</a>                                                                                                                                                |
| proxy_id                                                                                       | INTEGER      | NOT NULL | Ø       | Node id from <a href="#">NODES</a>                                                                                                                                                                          |
| comments                                                                                       | VARCHAR(255) | NULL     | Ø       | Comment to credential entry                                                                                                                                                                                 |

### Indexes

| Name                        | Type   | Fields                                       |
|-----------------------------|--------|----------------------------------------------|
| idx_address_lists_list_type | NORMAL | list_type                                    |
| address_lists_pkey          | UNIQUE | list_type,community_id,addr_type,addr1,addr2 |

# AGENT\_CONFIGS

Server side configuration files for the agents.

## Columns

| Name                                                                                        | Type         | State    | Default | Description                                                                         |
|---------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------------------------------------------------------|
|  config_id | INTEGER      | NOT NULL | Ø       | Unique identifier                                                                   |
| config_name                                                                                 | VARCHAR(255) | NOT NULL | Ø       | Description of the configuration file                                               |
| config_file                                                                                 | TEXT         | NOT NULL | Ø       | Content of the configuration file                                                   |
| config_filter                                                                               | TEXT         | NOT NULL | Ø       | NXSL script which decide if this configuration is right for incoming agent request. |
| sequence_number                                                                             | INTEGER      | NOT NULL | Ø       | Used to sort configurations.                                                        |

## Indexes

| Name               | Type   | Fields    |
|--------------------|--------|-----------|
| agent_configs_pkey | UNIQUE | config_id |

# AGENT\_PKG

List of the agent upgrade packages stored on the server and available for deploy.

## Columns

| Name                                                                                       | Type         | State    | Default | Description                                                    |
|--------------------------------------------------------------------------------------------|--------------|----------|---------|----------------------------------------------------------------|
|  pkg_id | INTEGER      | NOT NULL | Ø       | Unique identifier                                              |
| pkg_name                                                                                   | VARCHAR(63)  | NULL     | Ø       | Name of the package (e.g. "nxagent"), as loaded from NPI file. |
| version                                                                                    | VARCHAR(31)  | NULL     | Ø       | Version of the package, as loaded from NPI file.               |
| platform                                                                                   | VARCHAR(63)  | NULL     | Ø       | Supported platform of the package, as loaded from NPI file.    |
| pkg_file                                                                                   | VARCHAR(255) | NULL     | Ø       | Name of the binary file in server storage.                     |
| description                                                                                | VARCHAR(255) | NULL     | Ø       | Description of the package, as loaded from NPI file.           |

|           |              |      |   |                                                                                                                                                                                                            |
|-----------|--------------|------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| agent_pkg | VARCHAR(15)  | NULL | Ø | Package type: <ul style="list-style-type: none"> <li>• executable</li> <li>• msi</li> <li>• msp</li> <li>• msu</li> <li>• deb</li> <li>• /usr/bin/rpm</li> <li>• tgz</li> <li>• agent-installer</li> </ul> |
| command   | VARCHAR(255) | NULL | Ø | Command to install package                                                                                                                                                                                 |

### Indexes

| Name           | Type   | Fields |
|----------------|--------|--------|
| agent_pkg_pkey | UNIQUE | pkg_id |

## ALARM\_CATEGORIES

Alarm categories

### Columns

| Name                                                                                   | Type         | State    | Default | Description          |
|----------------------------------------------------------------------------------------|--------------|----------|---------|----------------------|
|  id | INTEGER      | NOT NULL | Ø       | Category ID          |
| name                                                                                   | VARCHAR(63)  | NULL     | Ø       | Category name        |
| descr                                                                                  | VARCHAR(255) | NULL     | Ø       | Category description |

### Indexes

| Name                  | Type   | Fields |
|-----------------------|--------|--------|
| alarm_categories_pkey | UNIQUE | id     |

# ALARM\_CATEGORY\_ACL

Access control for alarm categories. Presense of the record in this table give user (or group) access to alarms in specific category.

## Columns

| Name                                                                                          | Type    | State    | Default | Description                                                                           |
|-----------------------------------------------------------------------------------------------|---------|----------|---------|---------------------------------------------------------------------------------------|
|  category_id | INTEGER | NOT NULL | Ø       | Category ID                                                                           |
|  user_id     | INTEGER | NOT NULL | Ø       | User or group ID. Reference to <a href="#">USERS</a> or <a href="#">USER_GROUPS</a> . |

## Indexes

| Name                    | Type   | Fields              |
|-------------------------|--------|---------------------|
| alarm_category_acl_pkey | UNIQUE | category_id,user_id |

# ALARM\_CATEGORY\_MAP

Relation between alarms and alarm categories.

## Columns

| Name                                                                                           | Type    | State    | Default | Description                                                               |
|------------------------------------------------------------------------------------------------|---------|----------|---------|---------------------------------------------------------------------------|
|  alarm_id     | INTEGER | NOT NULL | Ø       | ID of the alarm. Reference to <a href="#">ALARMS</a> .                    |
|  category_id | INTEGER | NOT NULL | Ø       | ID of the alarm category. Reference to <a href="#">ALARM_CATEGORIES</a> . |

## Indexes

| Name                    | Type   | Fields               |
|-------------------------|--------|----------------------|
| alarm_category_map_pkey | UNIQUE | alarm_id,category_id |

# ALARM\_EVENTS

History of all events which resulted in generating alarm.

## Columns

| Name                                                                                       | Type          | State    | Default | Description                                                                                                              |
|--------------------------------------------------------------------------------------------|---------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------|
|  alarm_id | INTEGER       | NOT NULL | Ø       | ID of the alarm. Reference to <a href="#">ALARMS</a> .                                                                   |
|  event_id | BIGINT        | NOT NULL | Ø       | Event ID. Reference to <a href="#">EVENT_LOG</a> .                                                                       |
| event_code                                                                                 | INTEGER       | NOT NULL | Ø       | Event code. Reference to <a href="#">EVENT_CFG</a> .                                                                     |
| event_name                                                                                 | VARCHAR(63)   | NULL     | Ø       | Name of the event at the moment of generation.                                                                           |
| severity                                                                                   | INTEGER       | NOT NULL | Ø       | Severity of the event at the moment of generation.                                                                       |
| source_object_id                                                                           | INTEGER       | NOT NULL | Ø       | ID of the object which originated the event. Can be reference to <a href="#">NODES</a> , <a href="#">CLUSTERS</a> , etc. |
| event_timestamp                                                                            | INTEGER       | NOT NULL | Ø       | Unix time stamp of the event.                                                                                            |
| message                                                                                    | VARCHAR(2000) | NULL     | Ø       | Event message.                                                                                                           |

### Indexes

| Name                      | Type   | Fields            |
|---------------------------|--------|-------------------|
| idx_alarm_events_alarm_id | NORMAL | alarm_id          |
| alarm_events_pkey         | UNIQUE | alarm_id,event_id |

## ALARM\_NOTES

Alarm comments.

### Columns

| Name                                                                                        | Type    | State    | Default | Description                                                 |
|---------------------------------------------------------------------------------------------|---------|----------|---------|-------------------------------------------------------------|
|  note_id | INTEGER | NOT NULL | Ø       | Unique identifier.                                          |
| alarm_id                                                                                    | INTEGER | NOT NULL | Ø       | ID of the alarm. Reference to <a href="#">ALARMS</a> .      |
| change_time                                                                                 | INTEGER | NOT NULL | Ø       | Unix time stamp of last change.                             |
| user_id                                                                                     | INTEGER | NOT NULL | Ø       | Author of the comment. Reference to <a href="#">USERS</a> . |
| note_text                                                                                   | TEXT    | NULL     | Ø       | Comment body.                                               |

### Indexes

| Name                     | Type   | Fields   |
|--------------------------|--------|----------|
| idx_alarm_notes_alarm_id | NORMAL | alarm_id |
| alarm_notes_pkey         | UNIQUE | note_id  |

## ALARM\_STATE\_CHANGES

Log of alarm state changes.

### Columns

| Name                                                                                        | Type    | State    | Default | Description                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  record_id | BIGINT  | NOT NULL | Ø       | Unique identifier.                                                                                                                                                                                                   |
| alarm_id                                                                                    | INTEGER | NOT NULL | Ø       | ID of the alarm. Reference to <a href="#">ALARMS</a> .                                                                                                                                                               |
| prev_state                                                                                  | INTEGER | NOT NULL | Ø       | Previous state: <ul style="list-style-type: none"> <li>• 0x00 - Outstanding</li> <li>• 0x01 - Acknowledged</li> <li>• 0x02 - Resolved</li> <li>• 0x03 - Terminated</li> <li>• 0x11 - Sticky Acknowledged</li> </ul>  |
| new_state                                                                                   | INTEGER | NOT NULL | Ø       | New state state: <ul style="list-style-type: none"> <li>• 0x00 - Outstanding</li> <li>• 0x01 - Acknowledged</li> <li>• 0x02 - Resolved</li> <li>• 0x03 - Terminated</li> <li>• 0x11 - Sticky Acknowledged</li> </ul> |
| change_time                                                                                 | INTEGER | NOT NULL | Ø       | Unix time stamp of change.                                                                                                                                                                                           |
| prev_state_duration                                                                         | INTEGER | NOT NULL | Ø       | Previous state duration in seconds.                                                                                                                                                                                  |
| change_by                                                                                   | INTEGER | NOT NULL | Ø       | User id that made state change <a href="#">USERS</a>                                                                                                                                                                 |

## Indexes

| Name                          | Type   | Fields    |
|-------------------------------|--------|-----------|
| idx_alarm_state_changes_by_id | NORMAL | alarm_id  |
| alarm_state_changes_pkey      | UNIQUE | record_id |

# ALARMS

List of all generated alarms regardless of the state. Cleaned up automatically by the housekeeper.

## Columns

| Name                                                                                       | Type        | State    | Default | Description                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------|-------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  alarm_id | INTEGER     | NOT NULL | Ø       | Unique identifier.                                                                                                                                                                                                |
| alarm_state                                                                                | INTEGER     | NOT NULL | Ø       | State of the alarm: <ul style="list-style-type: none"><li>• 0x00 - Outstanding</li><li>• 0x01 - Acknowledged</li><li>• 0x02 - Resolved</li><li>• 0x03 - Terminated</li><li>• 0x11 - Sticky Acknowledged</li></ul> |
| hd_state                                                                                   | INTEGER     | NOT NULL | Ø       | State of the related helpdesk ticket (if any): <ul style="list-style-type: none"><li>• 0 - Ignored (default when no ticket is created from alarm)</li><li>• 1 - Open</li><li>• 2 - Closed</li></ul>               |
| hd_ref                                                                                     | VARCHAR(63) | NULL     | Ø       | Helpdesk ticket id.                                                                                                                                                                                               |
| creation_time                                                                              | INTEGER     | NOT NULL | Ø       | Unix time stamp of alarm creation.                                                                                                                                                                                |
| last_change_time                                                                           | INTEGER     | NOT NULL | Ø       | Unix time stamp of last modification.                                                                                                                                                                             |
| source_object_id                                                                           | INTEGER     | NOT NULL | Ø       | Source object of the event which resulted in an alarm. Reference to <a href="#">NODES</a> , <a href="#">CLUSTERS</a> , etc.                                                                                       |
| source_event_code                                                                          | INTEGER     | NOT NULL | Ø       | Event code of the event which resulted in an alarm. Reference to <a href="#">EVENT_CFG</a> .                                                                                                                      |

|                        |               |          |   |                                                                                                                                         |
|------------------------|---------------|----------|---|-----------------------------------------------------------------------------------------------------------------------------------------|
| source_event_id        | BIGINT        | NOT NULL | Ø | ID of the event which resulted in an alarm. Reference to <a href="#">EVENT_LOG</a> .                                                    |
| dci_id                 | INTEGER       | NOT NULL | Ø | ID of the related data collection item or Ø if event was not generated by threshold violation. Reference to <a href="#">ITEMS</a> .     |
| message                | VARCHAR(2000) | NULL     | Ø | Alarm message.                                                                                                                          |
| original_severity      | INTEGER       | NOT NULL | Ø | Alarm severity when alarm was generated.                                                                                                |
| current_severity       | INTEGER       | NOT NULL | Ø | Current alarm severity. May differ from <a href="#">current_severity</a> if alarm was repeated.                                         |
| repeat_count           | INTEGER       | NOT NULL | Ø | Number of repeated events with the same <a href="#">alarm_key</a> .                                                                     |
| alarm_key              | VARCHAR(255)  | NULL     | Ø | Alarm key.                                                                                                                              |
| ack_by                 | INTEGER       | NOT NULL | Ø | User, who acknowledged this alarm. Reference to <a href="#">USERS</a> .                                                                 |
| resolved_by            | INTEGER       | NOT NULL | Ø | User, who resolved this alarm. Reference to <a href="#">USERS</a> .                                                                     |
| term_by                | INTEGER       | NOT NULL | Ø | User, who terminated this alarm. Reference to <a href="#">USERS</a> .                                                                   |
| timeout                | INTEGER       | NOT NULL | Ø | Alarm timeout in seconds.                                                                                                               |
| timeout_event          | INTEGER       | NOT NULL | Ø | Code of the event which should be send if <a href="#">alarm_state</a> remains in Outstanding state for <a href="#">timeout</a> seconds. |
| ack_timeout            | INTEGER       | NOT NULL | Ø | Timeout for sticky acknowledgement.                                                                                                     |
| alarm_category_ids     | VARCHAR(255)  | NULL     | Ø | Comma-separated list of related alarm categories. Reference to <a href="#">ALARM_CATEGORIES</a> .                                       |
| zone_uin               | INTEGER       | NOT NULL | Ø | Zone unique identification number from <a href="#">ZONES</a>                                                                            |
| rule_guid              | VARCHAR(36)   | NULL     | Ø | Alarm key.                                                                                                                              |
| event_tags             | VARCHAR(2000) | NULL     | Ø | Coma separated event tag list                                                                                                           |
| parent_alarm_id        | INTEGER       | NOT NULL | Ø | ID of the parent alarm <a href="#">ALARMS</a>                                                                                           |
| rca_script_name        | VARCHAR(255)  | NULL     | Ø | Name of the root cause analysis script.                                                                                                 |
| impact                 | VARCHAR(1000) | NULL     | Ø | Alarm impact text.                                                                                                                      |
| rule_description       | VARCHAR(255)  | NULL     | Ø | Description of EEP rule that generated this alarm                                                                                       |
| last_state_change_time | INTEGER       | NOT NULL | Ø | Last time alarm changed state                                                                                                           |

## Indexes

| Name | Type | Fields |
|------|------|--------|
|------|------|--------|

|                             |        |                  |
|-----------------------------|--------|------------------|
| alarms_pkey                 | UNIQUE | alarm_id         |
| Name                        | Type   | Fields           |
| idx_alarms_source_object_id | NORMAL | source_object_id |
| Name                        | Type   | Fields           |
| idx_alarms_last_change_time | NORMAL | last_change_time |

## AP\_COMMON

Agent policies common attributes

### Columns

| Name                                                                                   | Type        | State    | Default | Description                                                                                             |
|----------------------------------------------------------------------------------------|-------------|----------|---------|---------------------------------------------------------------------------------------------------------|
|  guid | VARCHAR(36) | NOT NULL | Ø       | Unique policy identifier                                                                                |
| policy_name                                                                            | VARCHAR(63) | NOT NULL | Ø       | Policy name                                                                                             |
| owner_id                                                                               | INTEGER     | NOT NULL | Ø       | Owning template id from <a href="#">TEMPLATES</a>                                                       |
| policy_type                                                                            | VARCAHR(31) | NOT NULL | Ø       | Policy type: <ul style="list-style-type: none"> <li>• AgentConfig</li> <li>• LogParserConfig</li> </ul> |
| file_content                                                                           | TEXT        | NULL     | Ø       | File content (Agent configuration file content or log parser content...)                                |
| version                                                                                | INTEGER     | NOT NULL | Ø       | Policy version                                                                                          |
| flags                                                                                  | INTEGER     | NOT NULL | Ø       | Flags: <ul style="list-style-type: none"> <li>• 1 - EXPAND_MACRO</li> </ul>                             |

### Indexes

| Name           | Type   | Fields |
|----------------|--------|--------|
| ap_common_pkey | UNIQUE | guid   |

# AUDIT\_LOG

Log of all user actions.

## Columns

| Name                                                                                        | Type        | State    | Default | Description                                                                  |
|---------------------------------------------------------------------------------------------|-------------|----------|---------|------------------------------------------------------------------------------|
|  record_id | INTEGER     | NOT NULL | Ø       | Unique record identifier.                                                    |
| timestamp                                                                                   | INTEGER     | NOT NULL | Ø       | Unix timestamp.                                                              |
| subsystem                                                                                   | VARCHAR(32) | NOT NULL | Ø       | System component name.                                                       |
| success                                                                                     | INTEGER     | NOT NULL | Ø       | Success indicator.                                                           |
| user_id                                                                                     | INTEGER     | NOT NULL | Ø       | ID of the user performed logged action. Reference to <a href="#">USERS</a> . |
| workstation                                                                                 | VARCHAR(63) | NOT NULL | Ø       | IP of the user's workstation.                                                |
| session_id                                                                                  | INTEGER     | NOT NULL | Ø       | User's session id.                                                           |
| object_id                                                                                   | INTEGER     | NOT NULL | Ø       | Target object id which was involved in the logged action.                    |
| message                                                                                     | TEXT        | NULL     | Ø       | Audit record text.                                                           |
| old_value                                                                                   | TEXT        | NULL     | Ø       | Old value. Object is saved in json format                                    |
| new_value                                                                                   | TEXT        | NULL     | Ø       | New value. Object is saved in json format                                    |
| value_diff                                                                                  | TEXT        | NULL     | Ø       | Diff from old and new value. Object data is represented in json format       |
| value_type                                                                                  | VARCHAR(1)  | NOT NULL | Ø       | Value type for old_value and new_value fields.                               |
| hmac                                                                                        | VARCHAR(64) | NOT NULL | Ø       | HMAC calculated using all audit log fields.                                  |

## Indexes

| Name           | Type   | Fields    |
|----------------|--------|-----------|
| audit_log_pkey | UNIQUE | record_id |

# AUTO\_BIND\_TARGET

Auto bind information for objects(Templae, Container objects auto bind information)

## Columns

| Name                                                                                        | Type    | State    | Default | Description                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------|---------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  object_id | INTEGER | NOT NULL | ∅       | ID of the object. Reference to <a href="#">TEMPLATES</a> or <a href="#">OBJECT_CONTAINERS</a> .                                                                                                                                |
| bind_filter_1                                                                               | TEXT    | NULL     | ∅       | First auto bind NXSL filter                                                                                                                                                                                                    |
| bind_filter_2                                                                               | TEXT    | NULL     | ∅       | Second auto bind NXSL filter                                                                                                                                                                                                   |
| flags                                                                                       | INTEGER | NOT NULL | ∅       | Bind bit flags: <ul style="list-style-type: none"> <li>• AAF_AUTO_APPLY_1 - 0x00000001</li> <li>• AAF_AUTO_REMOVE_1 - 0x00000002</li> <li>• AAF_AUTO_APPLY_2 - 0x00000004</li> <li>• AAF_AUTO_REMOVE_2 - 0x00000008</li> </ul> |

### Indexes

| Name                  | Type   | Fields    |
|-----------------------|--------|-----------|
| auto_bind_target_pkey | UNIQUE | object_id |

## BUSINESS\_SERVICE\_CHECKS

Business service checks

### Columns

| Name                                                                                   | Type    | State    | Default | Description                                                                                   |
|----------------------------------------------------------------------------------------|---------|----------|---------|-----------------------------------------------------------------------------------------------|
|  id | INTEGER | NOT NULL | ∅       | Unique identifier.                                                                            |
| type                                                                                   | INTEGER | NOT NULL | ∅       | Type: <ul style="list-style-type: none"> <li>• 1 - threshold</li> <li>• 2 - script</li> </ul> |
| content                                                                                | TEXT    | NULL     | ∅       | NXSL script chack                                                                             |
| current_ticket                                                                         | INTEGER | NOT NULL | ∅       | Current ticket                                                                                |
| service_id                                                                             | INTEGER | NOT NULL | ∅       | Service id form <a href="#">BUSINESS_SERVICES</a> .                                           |
| related_object                                                                         | INTEGER | NOT NULL | ∅       | Related object id form <a href="#">OBJECT_PROPERTIES</a> .                                    |

|                             |               |          |   |                                                                                                                                                                                                |
|-----------------------------|---------------|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| related_dci                 | INTEGER       | NOT NULL | Ø | Related DCI id form <a href="#">ITEMS</a> .                                                                                                                                                    |
| status_threshold            | INTEGER       | NOT NULL | Ø | Object or DCI status threshold.                                                                                                                                                                |
| description                 | VARCHAR(1023) | NULL     | Ø | Description.                                                                                                                                                                                   |
| current status of the check | INTEGER       | NOT NULL | Ø | 0 if ok, 4 if failed.                                                                                                                                                                          |
| failure_reason              | VARCHAR(255)  | NULL     | Ø | Failure reason.                                                                                                                                                                                |
| prototype_service_id        | INTEGER       | NOT NULL | Ø | Business service id form <a href="#">BUSINESS_SERVICES</a> or business service prototype <a href="#">BUSINESS_SERVICE_PROTOTYPES</a> that auto discovered this check or 0 if created manually. |
| prototype_check_id          | INTEGER       | NOT NULL | Ø | Business service check prototype id for <a href="#">BUSINESS_SERVICE_CHECKS</a>                                                                                                                |

### Indexes

| Name                         | Type   | Fields |
|------------------------------|--------|--------|
| business_service_checks_pkey | UNIQUE | id     |

## BUSINESS\_SERVICES\_DOWNTIME

Business services downtime records.

### Columns

| Name                                                                                         | Type    | State    | Default | Description                                                   |
|----------------------------------------------------------------------------------------------|---------|----------|---------|---------------------------------------------------------------|
|  record_id | INTEGER | NOT NULL | Ø       | Unique identifier.                                            |
| service_id                                                                                   | INTEGER | NOT NULL | Ø       | Instance source object from <a href="#">BUSINESS_SERVICES</a> |
| from_timestamp                                                                               | INTEGER | NOT NULL | Ø       | UNIX timestamp when downtime started                          |
| to_timestamp                                                                                 | INTEGER | NOT NULL | Ø       | UNIX timestamp when downtime stopped or 0                     |

### Indexes

| Name                           | Type   | Fields    |
|--------------------------------|--------|-----------|
| business_service_downtime_pkey | UNIQUE | record_id |

# BUSINESS\_SERVICE\_PROTOTYPES

Business services prototype to create other business services form it.

## Columns

| Name                                                                                 | Type          | State    | Default | Description                                                                                                                      |
|--------------------------------------------------------------------------------------|---------------|----------|---------|----------------------------------------------------------------------------------------------------------------------------------|
|  id | INTEGER       | NOT NULL | Ø       | Unique identifier from <a href="#">OBJECT_PROPERTIES</a>                                                                         |
| instance_method                                                                      | INTEGER       | NOT NULL | Ø       | Instance method: <ul style="list-style-type: none"><li>• Agent List - 1</li><li>• Agent Table - 2</li><li>• Script - 5</li></ul> |
| instance_source                                                                      | INTEGER       | NOT NULL | Ø       | Instance source object from <a href="#">OBJECT_PROPERTIES</a>                                                                    |
| instance_data                                                                        | VARCAHR(1023) | NULL     | Ø       | Instance data                                                                                                                    |
| instance_filter                                                                      | TEXT          | NULL     | Ø       | Instance NXSL filter                                                                                                             |
| object_status_threshold                                                              | INTEGER       | NOT NULL | Ø       | Default object status threshold for auto discovered object checks.                                                               |
| dci_status_threshold                                                                 | INTEGER       | NOT NULL | Ø       | Default DCI status threshold for auto discovered DCI checks.                                                                     |

## Indexes

| Name                             | Type   | Fields |
|----------------------------------|--------|--------|
| business_service_prototypes_pkey | UNIQUE | id     |

# BUSINESS\_SERVICE\_TICKETS

Business service tickets opened on failed checks

## Columns

| Name                                                                                          | Type    | State    | Default | Description |
|-----------------------------------------------------------------------------------------------|---------|----------|---------|-------------|
|  ticket_id | INTEGER | NOT NULL | Ø       | Ticker id   |
| service_id                                                                                    | INTEGER | NOT NULL | Ø       | Service id  |

|                     |              |          |   |                                                                  |
|---------------------|--------------|----------|---|------------------------------------------------------------------|
| check_id            | INTEGER      | NOT NULL | Ø | Cehck id                                                         |
| create_timestamp    | INTEGER      | NOT NULL | Ø | Creation timestamp                                               |
| close_timestamp     | INTEGER      | NOT NULL | Ø | Clos timestamp                                                   |
| reason              | VARCHAR(255) | NULL     | Ø | Reason                                                           |
| check_description   | VARCHAR(255) | NULL     | Ø | Check description                                                |
| original_ticket_id  | INTEGER      | NOT NULL | Ø | Original ticket id from <a href="#">BUSINESS_SERVICE_TICKETS</a> |
| original_service_id | INTEGER      | NOT NULL | Ø | Original ticket id from <a href="#">BUSINESS_SERVICES</a>        |

### Indexes

| Name                          | Type   | Fields    |
|-------------------------------|--------|-----------|
| business_service_tickets_pkey | UNIQUE | ticket_id |

## BUSINESS\_SERVICES

Business services for defining SLA.

### Columns

| Name                                                                                 | Type          | State    | Default | Description                                                        |
|--------------------------------------------------------------------------------------|---------------|----------|---------|--------------------------------------------------------------------|
|  id | INTEGER       | NOT NULL | Ø       | Unique identifier from <a href="#">OBJECT_PROPERTIES</a>           |
| prototype_id                                                                         | INTEGER       | NOT NULL | Ø       | Prototype id form <a href="#">BUSINESS_SERVICE_PROTOTYPES</a> or 0 |
| instance                                                                             | VARCAHR(1023) | NULL     | Ø       | Instance                                                           |
| object_status_threshold                                                              | INTEGER       | NOT NULL | Ø       | Default object status threshold for auto discovered object checks. |
| dci_status_threshold                                                                 | INTEGER       | NOT NULL | Ø       | Default DCI status threshold for auto discovered DCI checks.       |

### Indexes

| Name                   | Type   | Fields |
|------------------------|--------|--------|
| business_services_pkey | UNIQUE | id     |

# CERTIFICATE\_ACTION\_LOG

Certificate activity log

## Columns

| Name                                                                                        | Type        | State    | Default | Description                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------|-------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  record_id | INTEGER     | NOT NULL | ∅       | Record primary key                                                                                                                                                                        |
| operation_timestamp                                                                         | INTEGER     | NOT NULL | ∅       | Action timestamp                                                                                                                                                                          |
| operation                                                                                   | INTEGER     | NOT NULL | ∅       | Operation: <ul style="list-style-type: none"><li>• 1 - ISSUE_CERTIFICATE</li><li>• 2 - REVOKE_CERTIFICATE</li></ul>                                                                       |
| user_id                                                                                     | INTEGER     | NOT NULL | ∅       | User id form <a href="#">USERS</a>                                                                                                                                                        |
| node_id                                                                                     | INTEGER     | NOT NULL | ∅       | Node id from <a href="#">NODES</a>                                                                                                                                                        |
| node_guid                                                                                   | VARCHAR(36) | NULL     | ∅       | Node guid                                                                                                                                                                                 |
| cert_type                                                                                   | INTEGER     | NOT NULL | ∅       | Type of certificate: <ul style="list-style-type: none"><li>• 0 - CERT_TYPE_TRUSTED_CA</li><li>• 1 - CERT_TYPE_USER</li><li>• 2 - CERT_TYPE_AGENT</li><li>• 3 - CERT_TYPE_SERVER</li></ul> |
| subject                                                                                     | VARCHAR(36) | NULL     | ∅       | Subject                                                                                                                                                                                   |
| serial                                                                                      | VARCHAR(36) | NULL     | ∅       | Serial                                                                                                                                                                                    |

## Indexes

| Name                          | Type   | Fields              |
|-------------------------------|--------|---------------------|
| certificate_action_log_pkey   | UNIQUE | record_id           |
| idx_cert_action_log_timestamp | NORMAL | operation_timestamp |

# CHASSIS

Chassis

## Columns

| Name                                                                                 | Type        | State    | Default | Description                                                                                                              |
|--------------------------------------------------------------------------------------|-------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------|
|  id | INTEGER     | NOT NULL | Ø       | Chassis id from <a href="#">OBJECT_PROPERTIES</a>                                                                        |
| controller_id                                                                        | INTEGER     | NOT NULL | Ø       | Id of node object providing management capabilities for this chassis                                                     |
| rack_id                                                                              | INTEGER     | NOT NULL | Ø       | Related rack object ID                                                                                                   |
| rack_image_front                                                                     | VARCHAR(36) | NULL     | Ø       | Image to be used in front rack view                                                                                      |
| rack_position                                                                        | INTEGER     | NOT NULL | Ø       | Position in rack (in rack units)                                                                                         |
| rack_height                                                                          | INTEGER     | NOT NULL | Ø       | Height in rack (in rack units)                                                                                           |
| rack_orientation                                                                     | INTEGER     | NOT NULL | Ø       | Rack orientation type: <ul style="list-style-type: none"><li>• 0 - FILL</li><li>• 1 - FRONT</li><li>• 2 - REAR</li></ul> |
| rack_image_rear                                                                      | VARCHAR(36) | NOT NULL | Ø       | Image GUID to be used in rear rack view                                                                                  |

## Indexes

| Name         | Type   | Fields |
|--------------|--------|--------|
| chassis_pkey | UNIQUE | id     |

# CLUSTER\_MEMBERS

Cluster members

## Columns

| Name                                                                                           | Type    | State    | Default | Description                                         |
|------------------------------------------------------------------------------------------------|---------|----------|---------|-----------------------------------------------------|
|  cluster_id | INTEGER | NOT NULL | Ø       | Cluster ID. Reference to <a href="#">CLUSTERS</a> . |

|                                                                                           |         |          |   |                                               |
|-------------------------------------------------------------------------------------------|---------|----------|---|-----------------------------------------------|
|  node_id | INTEGER | NOT NULL | Ø | Node ID. Reference to <a href="#">NODES</a> . |
|-------------------------------------------------------------------------------------------|---------|----------|---|-----------------------------------------------|

### Indexes

| Name                 | Type   | Fields             |
|----------------------|--------|--------------------|
| cluster_members_pkey | UNIQUE | cluster_id,node_id |

## CLUSTER\_RESOURCES

Cluster resources which can migrate between nodes. Currently only VIP migration is supported.

### Columns

| Name                                                                                          | Type         | State    | Default | Description                                                                  |
|-----------------------------------------------------------------------------------------------|--------------|----------|---------|------------------------------------------------------------------------------|
|  cluster_id  | INTEGER      | NOT NULL | Ø       | ID of the cluster. Reference to <a href="#">CLUSTERS</a> .                   |
|  resource_id | INTEGER      | NOT NULL | Ø       | Unique identifier                                                            |
| resource_name                                                                                 | VARCHAR(255) | NULL     | Ø       | Name of the resource.                                                        |
| ip_addr                                                                                       | VARCHAR(48)  | NOT NULL | Ø       | IP address of the resource (VIP).                                            |
| current_owner                                                                                 | INTEGER      | NOT NULL | Ø       | Node which currently owns the resource. Reference to <a href="#">NODES</a> . |

### Indexes

| Name                   | Type   | Fields                 |
|------------------------|--------|------------------------|
| cluster_resources_pkey | UNIQUE | cluster_id,resource_id |

## CLUSTER\_SYNC\_SUBNETS

Cluster subnets used for interconnect.

### Columns

| Name                                                                                            | Type        | State    | Default | Description                                         |
|-------------------------------------------------------------------------------------------------|-------------|----------|---------|-----------------------------------------------------|
|  cluster_id  | INTEGER     | NOT NULL | Ø       | Cluster ID. Reference to <a href="#">CLUSTERS</a> . |
|  subnet_addr | VARCHAR(48) | NOT NULL | Ø       | Network address.                                    |

|             |         |          |   |                                        |
|-------------|---------|----------|---|----------------------------------------|
| subnet_mask | INTEGER | NOT NULL | Ø | Network mask as number of bits (CIDR). |
|-------------|---------|----------|---|----------------------------------------|

### Indexes

| Name                      | Type   | Fields                 |
|---------------------------|--------|------------------------|
| cluster_sync_subnets_pkey | UNIQUE | cluster_id,subnet_addr |

## CLUSTERS

Information specific for Cluster objects.

### Columns

| Name                                                                                 | Type    | State    | Default | Description                                     |
|--------------------------------------------------------------------------------------|---------|----------|---------|-------------------------------------------------|
|  id | INTEGER | NOT NULL | Ø       | Unique identifier.                              |
| cluster_type                                                                         | INTEGER | NOT NULL | Ø       | Reserved for future use.                        |
| zone_guid                                                                            | INTEGER | NOT NULL | Ø       | Zone GUID. Reference to <a href="#">ZONES</a> . |

### Indexes

| Name          | Type   | Fields |
|---------------|--------|--------|
| clusters_pkey | UNIQUE | id     |

## COND\_DCI\_MAP

Mapping of the conditions to corresponding data collection items.

### Columns

| Name                                                                                                | Type    | State    | Default | Description                                             |
|-----------------------------------------------------------------------------------------------------|---------|----------|---------|---------------------------------------------------------|
|  condition_id    | INTEGER | NOT NULL | Ø       | Condition ID. Reference to <a href="#">CONDITIONS</a> . |
|  sequence_number | INTEGER | NOT NULL | Ø       | Sequence number.                                        |
| dci_id                                                                                              | INTEGER | NOT NULL | Ø       | ID of the DCI. Reference to <a href="#">ITEMS</a> .     |
| node_id                                                                                             | INTEGER | NOT NULL | Ø       | ID of the node. Reference to <a href="#">NODES</a> .    |

|           |         |          |   |                                                                                                                                                                                                                                                                                                                 |
|-----------|---------|----------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dci_func  | INTEGER | NOT NULL | ∅ | DCI function to use. Known values: <ul style="list-style-type: none"> <li>• 0 - Last value</li> <li>• 1 - Average value</li> <li>• 2 - Mean deviation</li> <li>• 3 - Difference with previous value</li> <li>• 4 - Data collection error</li> <li>• 5 - Sum of values</li> <li>• 6 - Run NXSL script</li> </ul> |
| num_polls | INTEGER | NOT NULL | ∅ | Number of values for <b>dci_func</b> to process.                                                                                                                                                                                                                                                                |

### Indexes

| Name              | Type   | Fields                       |
|-------------------|--------|------------------------------|
| cond_dci_map_pkey | UNIQUE | condition_id,sequence_number |

## CONDITIONS

Conditions definition table.

### Columns

| Name                                                                                   | Type    | State    | Default | Description                                                                                           |
|----------------------------------------------------------------------------------------|---------|----------|---------|-------------------------------------------------------------------------------------------------------|
|  id | INTEGER | NOT NULL | ∅       | Unique identifier.                                                                                    |
| activation_event                                                                       | INTEGER | NOT NULL | ∅       | Event code of the activation event. Reference to <a href="#">EVENT_CFG</a> .                          |
| deactivation_event                                                                     | INTEGER | NOT NULL | ∅       | Event code of the deactivation event. Reference to <a href="#">EVENT_CFG</a> .                        |
| source_object                                                                          | INTEGER | NOT NULL | ∅       | Source object for generating events. Reference to <a href="#">NODES</a> or <a href="#">CLUSTERS</a> . |

|                 |         |          |   |                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|---------|----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| active_status   | INTEGER | NOT NULL | Ø | Condition active status: <ul style="list-style-type: none"> <li>• 0 - STATUS_NORMAL</li> <li>• 1 - STATUS_WARNING</li> <li>• 2 - STATUS_MINOR</li> <li>• 3 - STATUS_MAJOR</li> <li>• 4 - STATUS_CRITICAL</li> <li>• 5 - STATUS_UNKNOWN</li> <li>• 6 - STATUS_UNMANAGED</li> <li>• 7 - STATUS_DISABLED</li> <li>• 8 - STATUS_TESTING</li> </ul>   |
| inactive_status | INTEGER | NOT NULL | Ø | Condition inactive status: <ul style="list-style-type: none"> <li>• 0 - STATUS_NORMAL</li> <li>• 1 - STATUS_WARNING</li> <li>• 2 - STATUS_MINOR</li> <li>• 3 - STATUS_MAJOR</li> <li>• 4 - STATUS_CRITICAL</li> <li>• 5 - STATUS_UNKNOWN</li> <li>• 6 - STATUS_UNMANAGED</li> <li>• 7 - STATUS_DISABLED</li> <li>• 8 - STATUS_TESTING</li> </ul> |
| script          | TEXT    | NOT NULL | Ø | NXSL script for activating condition.                                                                                                                                                                                                                                                                                                            |

### Indexes

| Name            | Type   | Fields |
|-----------------|--------|--------|
| conditions_pkey | UNIQUE | id     |

# CONFIG\_CLOB

System configuration table for large data elements

## Columns

| Name                                                                                       | Type        | State    | Default | Description    |
|--------------------------------------------------------------------------------------------|-------------|----------|---------|----------------|
|  var_name | VARCHAR(63) | NOT NULL | Ø       | Parameter name |
| var_value                                                                                  | TEXT        | NULL     | Ø       | Value          |

## Indexes

| Name             | Type   | Fields   |
|------------------|--------|----------|
| config_clob_pkey | UNIQUE | var_name |

# CONFIG\_REPOSITORIES

Repository configuration for templates market.

## Columns

| Name                                                                                 | Type          | State    | Default | Description                      |
|--------------------------------------------------------------------------------------|---------------|----------|---------|----------------------------------|
|  id | INTEGER       | NOT NULL | Ø       | Unique identifier.               |
| url                                                                                  | VARCHAR(1023) | NOT NULL | Ø       | Repository URL.                  |
| auth_token                                                                           | VARCHAR(63)   | NULL     | Ø       | Repository authentication token. |
| description                                                                          | VARCHAR(1023) | NULL     | Ø       | Repository description.          |

## Indexes

| Name                     | Type   | Fields |
|--------------------------|--------|--------|
| config_repositories_pkey | UNIQUE | id     |

# CONFIG\_VALUES

Possible values for system configuration parameters. Used by the GUI only.

## Columns

| Name                                                                                        | Type         | State    | Default | Description                                           |
|---------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------------------------|
|  var_name  | VARCHAR(63)  | NOT NULL | Ø       | Parameter name. Reference to <a href="#">CONFIG</a> . |
|  var_value | VARCHAR(15)  | NOT NULL | Ø       | Parameter value                                       |
| var_description                                                                             | VARCHAR(255) | NULL     | Ø       | Parameter description                                 |

## Indexes

| Name               | Type   | Fields             |
|--------------------|--------|--------------------|
| config_values_pkey | UNIQUE | var_name,var_value |

# CONFIG

Server configuration.

## Columns

| Name                                                                                        | Type          | State    | Default | Description                              |
|---------------------------------------------------------------------------------------------|---------------|----------|---------|------------------------------------------|
|  var_name | VARCHAR(63)   | NOT NULL | Ø       | Parameter name                           |
| var_value                                                                                   | VARCHAR(2000) | NULL     | Ø       | Value                                    |
| is_visible                                                                                  | INTEGER       | NOT NULL | 1       | GUI visibility indicator.                |
| need_server_restart                                                                         | INTEGER       | NOT NULL | 0       | Change take effect after server restart. |

|             |              |          |   |                                                                                                                                                                                                                                                              |
|-------------|--------------|----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data_type   | CHAR(1)      | NOT NULL | S | Type of the attribute. Known values: <ul style="list-style-type: none"> <li>• S – String</li> <li>• I – Integer</li> <li>• B – Boolean</li> <li>• C – Choice (Drop-down list displayed in UI)</li> <li>• H - Color (Color picker displayed in UI)</li> </ul> |
| is_public   | CHAR(1)      | NOT NULL | N | If set to non-zero, configuration parameter is visible to all users, even for those without granted access to server configuration.                                                                                                                          |
| description | VARCHAR(450) | NULL     | Ø | Configuration parameter's description shown in the UI.                                                                                                                                                                                                       |

### Indexes

| Name        | Type   | Fields   |
|-------------|--------|----------|
| config_pkey | UNIQUE | var_name |

## CONTAINER\_MEMBERS

Parent-child relations between containers and objects inside them.

### Columns

| Name                                                                                             | Type    | State    | Default | Description                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------|---------|----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  container_id | INTEGER | NOT NULL | Ø       | Container ID. Reference to <a href="#">OBJECT_CONTAINERS</a> .                                                                                                        |
|  object_id    | INTEGER | NOT NULL | Ø       | Child object ID. Reference to any object which can be placed into container ( <a href="#">NODES</a> , <a href="#">CLUSTERS</a> , <a href="#">OBJECT_CONTAINERS</a> ). |

### Indexes

| Name                   | Type   | Fields                 |
|------------------------|--------|------------------------|
| container_members_pkey | UNIQUE | container_id,object_id |

# COUNTRY\_CODES

List of country codes

## Columns

| Name                                                                                           | Type         | State    | Default | Description                       |
|------------------------------------------------------------------------------------------------|--------------|----------|---------|-----------------------------------|
|  numeric_code | CHAR(3)      | NOT NULL | Ø       | Numeric ISO code                  |
| alpha_code                                                                                     | CHAR(2)      | NOT NULL | Ø       | Alphabetical 2 character ISO code |
| alpha3_code                                                                                    | CHAR(3)      | NOT NULL | Ø       | Alphabetical 3 character ISO code |
| name                                                                                           | VARCHAR(127) | NOT NULL | Ø       | Country name                      |

## Indexes

| Name               | Type   | Fields       |
|--------------------|--------|--------------|
| country_codes_pkey | UNIQUE | numeric_code |

# CURRENCY\_CODES

List of currency codes

## Columns

| Name                                                                                             | Type         | State    | Default | Description              |
|--------------------------------------------------------------------------------------------------|--------------|----------|---------|--------------------------|
|  numeric_code | CHAR(3)      | NOT NULL | Ø       | Numeric ISO code         |
| alpha_code                                                                                       | CHAR(3)      | NOT NULL | Ø       | Alphabetical ISO code    |
| description                                                                                      | VARCHAR(127) | NOT NULL | Ø       | Description              |
| exponent                                                                                         | INTEGER      | NOT NULL | Ø       | Exponent for minor units |

## Indexes

| Name                | Type   | Fields       |
|---------------------|--------|--------------|
| currency_codes_pkey | UNIQUE | numeric_code |

# DASHBOARD\_ASSOCIATIONS

Associations between dashboards and other objects

## Columns

| Name                                                                                           | Type    | State    | Default | Description                                      |
|------------------------------------------------------------------------------------------------|---------|----------|---------|--------------------------------------------------|
|  object_id    | INTEGER | NOT NULL | Ø       | Object id from <a href="#">OBJECT_PROPERTIES</a> |
|  dashboard_id | INTEGER | NOT NULL | Ø       | Dashboard id from <a href="#">DASHBOARDS</a>     |

## Indexes

| Name                        | Type   | Fields                 |
|-----------------------------|--------|------------------------|
| dashboard_associations_pkey | UNIQUE | object_id,dashboard_id |

# DASHBOARD\_ELEMENTS

Widgets and layout configuration of each dashboard.

## Columns

| Name                                                                                           | Type    | State    | Default | Description                                                    |
|------------------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------------------------------|
|  dashboard_id | INTEGER | NOT NULL | Ø       | ID of the dashboard. Reference to <a href="#">DASHBOARDS</a> . |
|  element_id  | INTEGER | NOT NULL | Ø       | Unique identifier.                                             |

|              |         |          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------|---------|----------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| element_type | INTEGER | NOT NULL | Ø | <p>Type of the element. Known values:</p> <ul style="list-style-type: none"> <li>• 0 – Label</li> <li>• 1 – Line Chart</li> <li>• 2 – Bar Chart</li> <li>• 3 – Pie Chart</li> <li>• 4 – Tube Chart</li> <li>• 5 – Status Chart</li> <li>• 6 – Status Indicator</li> <li>• 7 – Embedded Dashboard</li> <li>• 8 – Network Map</li> <li>• 9 – Custom</li> <li>• 10 – Geo map</li> <li>• 11 – Alarm Viewer</li> <li>• 12 – Availability Chart</li> <li>• 13 – Dial Chart</li> <li>• 14 – Web Page</li> <li>• 15 – Table Bar Chart</li> <li>• 16 – Table Pie Chart</li> <li>• 17 – Table Tube Chart</li> <li>• 18 – Separator</li> <li>• 19 – Table Last Value</li> <li>• 20 – Status Map</li> <li>• 21 – DCI Summary Table</li> <li>• 22 – Syslog Monitor</li> <li>• 23 – SNMP Trap Monitor</li> <li>• 24 – Event Monitor</li> </ul> |
| element_data | TEXT    | NULL     | Ø | Widget configuration (data sources, etc.). Format is internal to a widget.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| layout_data  | TEXT    | NULL     | Ø | Widget layout details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### Indexes

| Name                    | Type   | Fields                  |
|-------------------------|--------|-------------------------|
| dashboard_elements_pkey | UNIQUE | dashboard_id,element_id |

## DASHBOARDS

List of all dashboards.

### Columns

| Name                                                                                 | Type    | State    | Default | Description                                                     |
|--------------------------------------------------------------------------------------|---------|----------|---------|-----------------------------------------------------------------|
|  id | INTEGER | NOT NULL | Ø       | Unique identifier.                                              |
| num_columns                                                                          | INTEGER | NOT NULL | Ø       | Number of columns in in the dashboard.                          |
| display_priority                                                                     | INTEGER | NOT NULL | Ø       | Priority to display dashboard in object tabs. 0 - for automatic |

### Indexes

| Name            | Type   | Fields |
|-----------------|--------|--------|
| dashboards_pkey | UNIQUE | id     |

## DC\_TABLE\_COLUMNS

Data collection configuration for table items – column configuration.

### Columns

| Name                                                                                            | Type          | State    | Default | Description                                                         |
|-------------------------------------------------------------------------------------------------|---------------|----------|---------|---------------------------------------------------------------------|
|  table_id    | INTEGER       | NOT NULL | Ø       | Reference to <a href="#">item_id</a> in <a href="#">DC_TABLES</a> . |
| sequence_number                                                                                 | INTEGER       | NOT NULL | Ø       | Column number used for sorting.                                     |
|  column_name | VARCHAR(63)   | NOT NULL | Ø       | Name of the column as read from the agent.                          |
| snmp_oid                                                                                        | VARCHAR(1023) | NULL     | Ø       | SNMP OID (used only if table source is SNMP).                       |

|              |              |          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|--------------|----------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| flags        | INTEGER      | NOT NULL | ∅ | Bitmark of column flags. Known values: <ul style="list-style-type: none"> <li>• 0x0000 – Type: Integer</li> <li>• 0x0001 – Type: Unsigned Integer</li> <li>• 0x0002 – Type: Int64</li> <li>• 0x0003 – Type: Unsigned Int64</li> <li>• 0x0004 – Type: String</li> <li>• 0x0005 – Type: Float</li> <li>• 0x0010 – Aggregate: Average</li> <li>• 0x0020 – Aggregate: Min</li> <li>• 0x0030 – Aggregate: Max</li> <li>• 0x0100 – This column is instance (key) column</li> <li>• 0x0200 – This column is instance label column</li> </ul> |
| display_name | VARCHAR(255) | NULL     | ∅ | Column name to be shown to user.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### Indexes

| Name                  | Type   | Fields               |
|-----------------------|--------|----------------------|
| dc_table_columns_pkey | UNIQUE | table_id,column_name |

## DC\_TABLES

Data collection configuration for table items.

### Columns

| Name                                                                                        | Type    | State    | Default | Description                                                                                                                                     |
|---------------------------------------------------------------------------------------------|---------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|  item_id | INTEGER | NOT NULL | ∅       | Unique identifier.                                                                                                                              |
| node_id                                                                                     | INTEGER | NOT NULL | ∅       | Object where DCI is configured. Reference to <a href="#">NODES</a> or <a href="#">CLUSTERS</a> .                                                |
| template_id                                                                                 | INTEGER | NOT NULL | ∅       | ID of the source template. If item was created directly on the node, value will be <a href="#">∅</a> . Reference to <a href="#">TEMPLATES</a> . |

|                  |               |          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------|---------------|----------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| template_item_id | INTEGER       | NOT NULL | Ø | ID of the DCI in the template. If item was created directly on the node, value will be <b>Ø</b> . Reference to <a href="#">TEMPLATES</a> .                                                                                                                                                                                                                                                                                                                                                                           |
| guid             | VARCHAR(36)   | NOT NULL | Ø | Record GUID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| name             | VARCHAR(1023) | NULL     | Ø | Name of the parameter. Depending on the source, it can be agent's parameter, SNMP OID, Script name, etc.                                                                                                                                                                                                                                                                                                                                                                                                             |
| description      | VARCHAR(255)  | NULL     | Ø | Human readable description of the item.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| flags            | INTEGER       | NOT NULL | Ø | Data collection table flags: <ul style="list-style-type: none"> <li>• DCF_ALL_THRESHOLDS 0x0002</li> <li>• DCF_RAW_VALUE_OCTET_STRING 0x0004</li> <li>• DCF_SHOW_ON_OBJECT_TOOLTIP 0x0008</li> <li>• DCF_AGGREGATE_FUNCTION_MASK 0x0070</li> <li>• DCF_AGGREGATE_ON_CLUSTER 0x0080</li> <li>• DCF_TRANSFORM_AGGREGATED 0x0100</li> <li>• DCF_CALCULATE_NODE_STATUS 0x0400</li> <li>• DCF_SHOW_IN_OBJECT_OVERVIEW 0x0800</li> <li>• DCF_CACHE_MODE_MASK 0x3000</li> <li>• DCF_AGGREGATE_WITH_ERRORS 0x4000</li> </ul> |
| source           | INTEGER       | NOT NULL | Ø | Source node. If this value is non-zero, server will query data from this node instead of the node specified by <b>node_id</b> . Reference to <a href="#">NODES</a> .                                                                                                                                                                                                                                                                                                                                                 |
| snmp_port        | INTEGER       | NOT NULL | Ø | SNMP port.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| polling_interval | INTEGER       | NOT NULL | Ø | Polling interval in seconds.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| retention_time   | INTEGER       | NOT NULL | Ø | Retention time in days.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| status           | INTEGER       | NOT NULL | Ø | Status of the DCI. Known values: <ul style="list-style-type: none"> <li>• 0 – Active</li> <li>• 1 – Disabled</li> <li>• 2 – Not Supported</li> </ul>                                                                                                                                                                                                                                                                                                                                                                 |
| system_tag       | VARCHAR(255)  | NULL     | Ø | System tag used by different system modules to save module information                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                         |              |          |   |                                                                                                                                                                                                                                                            |
|-------------------------|--------------|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resource_id             | INTEGER      | NOT NULL | Ø | Cluster resource id from <a href="#">CLUSTER_RESOURCES</a>                                                                                                                                                                                                 |
| proxy_node              | INTEGER      | NOT NULL | Ø | ID of the proxy node. Reference to <a href="#">NODES</a> .                                                                                                                                                                                                 |
| perftab_settings        | TEXT         | NULL     | Ø | Data collection table XML configuration for Performance tab                                                                                                                                                                                                |
| transformation_script   | TEXT         | NULL     | Ø | NXSL transformation script                                                                                                                                                                                                                                 |
| comments                | TEXT         | NULL     | Ø | Data collection table comment                                                                                                                                                                                                                              |
| instance                | VARCHAR(255) | NULL     | Ø | Instance                                                                                                                                                                                                                                                   |
| instd_method            | INTEGER      | NOT NULL | Ø | Method of instance discovery <ul style="list-style-type: none"> <li>• 0 – IDM_NONE</li> <li>• 1 – IDM_AGENT_LIST</li> <li>• 2 – IDM_AGENT_TABLE</li> <li>• 3 – IDM_SNMP_WALK_VALUES</li> <li>• 4 – IDM_SNMP_WALK_OIDS</li> <li>• 5 – IDM_SCRIPT</li> </ul> |
| instd_data              | VARCHAR(255) | NULL     | Ø | Data for instance discovery (Script name, Agent list...)                                                                                                                                                                                                   |
| instd_filter            | TEXT         | NULL     | Ø | NXSL instance discovery filter                                                                                                                                                                                                                             |
| instance_retention_time | INTEGER      | NOT NULL | Ø | Retention time for deleted instances from instance discovery                                                                                                                                                                                               |
| grace_period_start      | INTEGER      | NOT NULL | Ø | Start for grace period for deleted instance                                                                                                                                                                                                                |
| related_object          | INTEGER      | NOT NULL | Ø | Related object                                                                                                                                                                                                                                             |
| polling_interval_src    | VARCHAR(255) | NOT NULL | Ø | Source for polling interval calculation                                                                                                                                                                                                                    |
| retention_time_src      | VARCHAR(255) | NOT NULL | Ø | Source for retention time calculation                                                                                                                                                                                                                      |
| polling_schedule_type   | CHAR(1)      | NOT NULL | Ø | Polling schedule type: <ul style="list-style-type: none"> <li>• DC_POLLING_SCHEDULE_DEFAULT = 0</li> <li>• DC_POLLING_SCHEDULE_CUSTOM = 1</li> <li>• DC_POLLING_SCHEDULE_ADVANCED = 2</li> </ul>                                                           |

|                |         |          |   |                                                                                                                                                            |
|----------------|---------|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| retention_type | CHAR(1) | NOT NULL | Ø | Retention type: <ul style="list-style-type: none"> <li>DC_RETENTION_DEFAULT = 0</li> <li>DC_RETENTION_CUSTOM = 1</li> <li>DC_RETENTION_NONE = 2</li> </ul> |
| snmp_version   | INTEGER | NOT NULL | Ø | SNMP version                                                                                                                                               |
| state_flags    | INTEGER | NOT NULL | Ø | State bit flags: <ul style="list-style-type: none"> <li>DCO_STATE_DISABLED_BY_USER 1</li> </ul>                                                            |

### Indexes

| Name                  | Type   | Fields  |
|-----------------------|--------|---------|
| idx_dc_tables_node_id | NORMAL | node_id |
| dc_tables_pkey        | UNIQUE | item_id |

## DC\_TARGETS

Data collection targets table. Any object capable of data collection will contain record here.

### Columns

| Name                                                                                   | Type          | State    | Default | Description                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------|---------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  id | INTEGER       | NOT NULL | Ø       | ID of the object from <a href="#">OBJECT_PROPERTIES</a>                                                                                                                                              |
| geolocation_ctrl_mode                                                                  | INTEGER       | NOT NULL | Ø       | Control mode for configured geo areas: <ul style="list-style-type: none"> <li>GEOLOCATION_NO_CONTROL - 0</li> <li>GEOLOCATION_RESTRICTED_AREAS - 1</li> <li>GEOLOCATION_ALLOWED_AREAS - 2</li> </ul> |
| geo_areas                                                                              | VARCHAR(2000) | NULL     | Ø       | Coma separated list of geo area ids for this object.                                                                                                                                                 |
| web_service_proxy                                                                      | INTEGER       | NOT NULL | Ø       | web service proxy node form <a href="#">NODES</a>                                                                                                                                                    |

### Indexes

| Name            | Type   | Fields |
|-----------------|--------|--------|
| dc_targets_pkey | UNIQUE | id     |

## DCI\_ACCESS

Access rights for dci

### Columns

| Name                                                                                      | Type    | State    | Default | Description                                                                      |
|-------------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------------------------------------------------|
|  dci_id  | INTEGER | NOT NULL | Ø       | DCI ID. Reference to either <a href="#">ITEMS</a> or <a href="#">DC_TABLES</a> . |
|  user_id | INTEGER | NOT NULL | Ø       | User id from <a href="#">USERS</a>                                               |

### Indexes

| Name            | Type   | Fields         |
|-----------------|--------|----------------|
| dci_access_pkey | UNIQUE | dci_id,user_id |

## DCI\_DELETE\_LIST

List of DCI's that should be deleted on housekeeper

### Columns

| Name                                                                                       | Type    | State    | Default | Description                                                                      |
|--------------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------------------------------------------------|
|         | INTEGER | NOT NULL | Ø       | Object id. Reference form <a href="#">OBJECT_PROPERTIES</a> .                    |
|  dci_id | INTEGER | NOT NULL | Ø       | DCI ID. Reference to either <a href="#">ITEMS</a> or <a href="#">DC_TABLES</a> . |
| type                                                                                       | CHAR(1) | NOT NULL | Ø       | DCI type. <b>t</b> for table DCI and <b>i</b> for a regular DCI.                 |

### Indexes

| Name                 | Type   | Fields         |
|----------------------|--------|----------------|
| dci_delete_list_pkey | UNIQUE | node_id,dci_id |

# DCI\_SCHEDULES

Advanced schedules for DCI.

## Columns

| Name                                                                                          | Type         | State    | Default | Description                                                                      |
|-----------------------------------------------------------------------------------------------|--------------|----------|---------|----------------------------------------------------------------------------------|
|  schedule_id | INTEGER      | NOT NULL | ∅       | Unique identifier.                                                               |
|  item_id     | INTEGER      | NOT NULL | ∅       | DCI ID. Reference to either <a href="#">ITEMS</a> or <a href="#">DC_TABLES</a> . |
| schedule                                                                                      | VARCHAR(255) | NULL     | ∅       | Cron-like schedule definition.                                                   |

## Indexes

| Name               | Type   | Fields              |
|--------------------|--------|---------------------|
| dci_schedules_pkey | UNIQUE | item_id,schedule_id |

# DCI\_SUMMARY\_TABLES

Configuration of DCI summary tables.

## Columns

| Name                                                                                  | Type         | State    | Default | Description                                                                                                          |
|---------------------------------------------------------------------------------------|--------------|----------|---------|----------------------------------------------------------------------------------------------------------------------|
|  id | INTEGER      | NOT NULL | ∅       | Unique identifier.                                                                                                   |
| guid                                                                                  | VARCHAR(36)  | NOT NULL | ∅       | Summary Table GUID.                                                                                                  |
| menu_path                                                                             | VARCHAR(255) | NULL     | ∅       | Path of the element in "Summary Tables" menu.                                                                        |
| title                                                                                 | VARCHAR(127) | NULL     | ∅       | Title of the summary table.                                                                                          |
| node_filter                                                                           | TEXT         | NULL     | ∅       | NXSL script to filter out unrequired nodes.                                                                          |
| flags                                                                                 | INTEGER      | NOT NULL | ∅       | Flags: <ul style="list-style-type: none"><li>• 0x0001 - MULTI_INSTANCE</li><li>• 0x0002 - TABLE_DCI_SOURCE</li></ul> |
| columns                                                                               | VARCHAR(255) | NULL     | ∅       | Columns configuration.                                                                                               |

|                |      |      |   |                            |
|----------------|------|------|---|----------------------------|
| table_dci_name | TEXT | NULL | Ø | Name of the summary table. |
|----------------|------|------|---|----------------------------|

### Indexes

| Name                    | Type   | Fields |
|-------------------------|--------|--------|
| dci_summary_tables_pkey | UNIQUE | id     |

## DCT\_COLUMN\_NAMES

Data collection configuration for table items - column names.

### Columns

| Name                                                                                        | Type        | State    | Default | Description         |
|---------------------------------------------------------------------------------------------|-------------|----------|---------|---------------------|
|  column_id | INTEGER     | NOT NULL | Ø       | Unique identifier.  |
| column_name                                                                                 | VARCHAR(63) | NOT NULL | Ø       | Name of the column. |

### Indexes

| Name                  | Type   | Fields    |
|-----------------------|--------|-----------|
| dct_column_names_pkey | UNIQUE | column_id |

## DCT\_NODE\_MAP

Mapping between nodes and applied templates with table DCI.

### Columns

| Name                                                                                            | Type    | State    | Default | Description                                                                      |
|-------------------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------------------------------------------------|
|  template_id | INTEGER | NOT NULL | Ø       | Template ID. Reference to <a href="#">TEMPLATES</a> .                            |
|  node_id     | INTEGER | NOT NULL | Ø       | Target node ID. Reference to <a href="#">NODES</a> or <a href="#">CLUSTERS</a> . |

### Indexes

| Name | Type | Fields |
|------|------|--------|
|------|------|--------|

|                   |        |                     |
|-------------------|--------|---------------------|
| dct_node_map_pkey | UNIQUE | template_id,node_id |
|-------------------|--------|---------------------|

## DCT\_THRESHOLD\_CONDITIONS

Table threshold conditions

### Columns

| Name                                                                                              | Type         | State    | Default | Description                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------|--------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  threshold_id    | INTEGER      | NOT NULL | Ø       | Threshold id form <a href="#">DCT_THRESHOLD_INSTANCES</a>                                                                                                                                                                                      |
|  group_id        | INTEGER      | NOT NULL | Ø       | Group id                                                                                                                                                                                                                                       |
|  sequence_number | INTEGER      | NOT NULL | Ø       | Sequence id                                                                                                                                                                                                                                    |
| column_name                                                                                       | VARCHAR(63)  | NULL     | Ø       | Column name                                                                                                                                                                                                                                    |
| check_operation                                                                                   | INTEGER      | NOT NULL | Ø       | Check operation: <ul style="list-style-type: none"> <li>• 0 - OP_LE</li> <li>• 1 - OP_LE_EQ</li> <li>• 2 - OP_EQ</li> <li>• 3 - OP_GT_EQ</li> <li>• 4 - OP_GT</li> <li>• 5 - OP_NE</li> <li>• 6 - OP_LIKE</li> <li>• 7 - OP_NOTLIKE</li> </ul> |
| check_value                                                                                       | VARCHAR(255) | NULL     | Ø       | Check value                                                                                                                                                                                                                                    |

### Indexes

| Name                          | Type   | Fields                                |
|-------------------------------|--------|---------------------------------------|
| dct_threshold_conditions_pkey | UNIQUE | threshold_id,group_id,sequence_number |

# DCT\_THRESHOLD\_INSTANCES

Table stores matched instances by table threshold

## Columns

| Name                                                                                           | Type         | State    | Default | Description                                                  |
|------------------------------------------------------------------------------------------------|--------------|----------|---------|--------------------------------------------------------------|
|  threshold_id | INTEGER      | NOT NULL | ∅       | Threshold id from <a href="#">DCT_THRESHOLDS</a>             |
| instance                                                                                       | VARCHAR(255) | NOT NULL | ∅       | Matched threshold instance.                                  |
| match_count                                                                                    | INTEGER      | NOT NULL | ∅       | Number of times this threshold, instance couple were matched |
| is_active                                                                                      | CHAR(1)      | NOT NULL | ∅       | Defines if this threshold, instance couple is active         |
| tt_row_number                                                                                  | INTEGER      | NOT NULL | ∅       | Row number                                                   |
| maint_copy                                                                                     | CHAR(1)      | NOT NULL | ∅       | Flag that states that threshold happened before maintenance  |

## Indexes

| Name                         | Type   | Fields                           |
|------------------------------|--------|----------------------------------|
| dct_threshold_instances_pkey | UNIQUE | threshold_id,instance,maint_copy |

# DCT\_THRESHOLDS

Table threshold configuration

## Columns

| Name                                                                                   | Type    | State    | Default | Description                                                     |
|----------------------------------------------------------------------------------------|---------|----------|---------|-----------------------------------------------------------------|
|  id | INTEGER | NOT NULL | ∅       | Unique threshold identifier                                     |
| table_id                                                                               | INTEGER | NOT NULL | ∅       | Item id from <a href="#">DC_TABLES</a>                          |
| sequence_number                                                                        | INTEGER | NOT NULL | ∅       | Threshold processing sequence number                            |
| activation_event                                                                       | INTEGER | NOT NULL | ∅       | Event code of activation event from <a href="#">EVENT_CFG</a>   |
| deactivation_event                                                                     | INTEGER | NOT NULL | ∅       | Event code of deactivation event from <a href="#">EVENT_CFG</a> |
| sample_count                                                                           | INTEGER | NOT NULL | ∅       | Required sample count for state change                          |

### Indexes

| Name                | Type   | Fields |
|---------------------|--------|--------|
| dct_thresholds_pkey | UNIQUE | id     |

## EVENT\_CFG

Event templates

### Columns

| Name                                                                                         | Type          | State    | Default | Description                       |
|----------------------------------------------------------------------------------------------|---------------|----------|---------|-----------------------------------|
|  event_code | INTEGER       | NOT NULL | Ø       | Event code (unique within system) |
| event_name                                                                                   | VARCHAR(63)   | NOT NULL | Ø       | Event name                        |
| guid                                                                                         | VARCHAR(36)   | NOT NULL | Ø       | Event template GUID               |
| severity                                                                                     | INTEGER       | NOT NULL | Ø       | Severity                          |
| flags                                                                                        | INTEGER       | NOT NULL | Ø       | Flags                             |
| message                                                                                      | VARCHAR(2000) | NULL     | Ø       | Message template                  |
| description                                                                                  | TEXT          | NULL     | Ø       | Event description                 |
| tags                                                                                         | VARCHAR(2000) | NULL     | Ø       | Event tags coma separated         |

### Indexes

| Name           | Type   | Fields     |
|----------------|--------|------------|
| event_cfg_pkey | UNIQUE | event_code |

## EVENT\_LOG

All events which was emmited in the system. Table is cleaned up automatically by the housekeeper.

### Columns

| Name                                                                                         | Type   | State    | Default | Description        |
|----------------------------------------------------------------------------------------------|--------|----------|---------|--------------------|
|  event_id | BIGINT | NOT NULL | Ø       | Unique identifier. |

|                  |               |          |   |                                                                                                                                                                                                                                      |
|------------------|---------------|----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| event_code       | INTEGER       | NOT NULL | Ø | Event code. Reference to <a href="#">EVENT_CFG</a> .                                                                                                                                                                                 |
| event_timestamp  | INTEGER       | NOT NULL | Ø | Unix time stamp of the event.                                                                                                                                                                                                        |
| event_source     | INTEGER       | NOT NULL | Ø | Source object which originated evenent.                                                                                                                                                                                              |
| dci_id           | INTEGER       | NOT NULL | Ø | Non-zero ID of the DCI related to this event. If event is unrelated to any DCI, value is <b>0</b> .                                                                                                                                  |
| event_severity   | INTEGER       | NOT NULL | Ø | Event severity at the moment of insertion into log.                                                                                                                                                                                  |
| event_message    | VARCHAR(2000) | NULL     | Ø | Event message.                                                                                                                                                                                                                       |
| root_event_id    | BIGINT        | NOT NULL | Ø | If event was correlated, this field contains root event which cause further events to be emmited.                                                                                                                                    |
| zone_uin         | INTEGER       | NULL     | Ø | Zone unique identification number form <a href="#">ZONES</a>                                                                                                                                                                         |
| raw_data         | TEXT          | NULL     | Ø | Event raw data                                                                                                                                                                                                                       |
| tags             | VARCHAR(2000) | NULL     | Ø | Event tags coma separated                                                                                                                                                                                                            |
| origin           | INTEGER       | NOT NULL | Ø | Event origin. Possible options: <ul style="list-style-type: none"> <li>• 0 - SYSTEM</li> <li>• 1 - AGENT</li> <li>• 2 - CLIENT</li> <li>• 3 - SYSLOG</li> <li>• 4 - SNMP</li> <li>• 5 - NXSL</li> <li>• 6 - REMOTE_SERVER</li> </ul> |
| origin_timestamp | INTEGER       | NOT NULL | Ø | Unix time stamp of the event on origin.                                                                                                                                                                                              |

### Indexes

| Name                          | Type   | Fields          |
|-------------------------------|--------|-----------------|
| idx_event_log_root_id         | NORMAL | root_event_id   |
| idx_event_log_source          | NORMAL | event_source    |
| idx_event_log_event_timestamp | NORMAL | event_timestamp |
| event_log_pkey                | UNIQUE | event_id        |

# EVENT\_POLICY

Event processing policy.

## Columns

| Name                                                                                      | Type          | State    | Default | Description                                                           |
|-------------------------------------------------------------------------------------------|---------------|----------|---------|-----------------------------------------------------------------------|
|  rule_id | INTEGER       | NOT NULL | Ø       | Unique identifier.                                                    |
| rule_guid                                                                                 | VARCHAR(36)   | NOT NULL | Ø       | GUID of the record.                                                   |
| flags                                                                                     | INTEGER       | NOT NULL | Ø       | Rule flags.                                                           |
| comments                                                                                  | TEXT          | NULL     | Ø       | Comments as show in rule editor.                                      |
| filter_script                                                                             | TEXT          | NULL     | Ø       | NXSL filtering script. Should return <b>True</b> for rule to execute. |
| alarm_message                                                                             | VARCHAR(2000) | NULL     | Ø       | Message for creating alarm based on the event.                        |
| alarm_severity                                                                            | INTEGER       | NOT NULL | Ø       | Severity for created alarm.                                           |
| alarm_key                                                                                 | VARCHAR(255)  | NULL     | Ø       | Alarm key generation pattern                                          |
| alarm_timeout                                                                             | INTEGER       | NOT NULL | Ø       | Alarm timeout time                                                    |
| alarm_timeout_event                                                                       | INTEGER       | NOT NULL | Ø       | Event generated on alarm timeout                                      |
| rca_script_name                                                                           | VARCHAR(255)  | NULL     | Ø       | Name of the root cause analysis script.                               |
| alarm_impact                                                                              | VARCHAR(1000) | NULL     | Ø       | Alarm impact text.                                                    |
| action_script                                                                             | TEXT          | NULL     | Ø       | Script thet will be executed as an action for event processing rule.  |

## Indexes

| Name              | Type   | Fields  |
|-------------------|--------|---------|
| event_policy_pkey | UNIQUE | rule_id |

# GEO\_AREAS

Geo area for device area monitoring.

## Columns

| Name | Type | State | Default | Description |
|------|------|-------|---------|-------------|
|------|------|-------|---------|-------------|

|                                                                                      |              |          |   |                           |
|--------------------------------------------------------------------------------------|--------------|----------|---|---------------------------|
|  id | INTEGER      | NOT NULL | Ø | Unique identifier.        |
| name                                                                                 | VARCHAR(127) | NOT NULL | Ø | Area name.                |
| comments                                                                             | TEXT         | NULL     | Ø | Text comment.             |
| configuration                                                                        | TEXT         | NULL     | Ø | Area border configuration |

### Indexes

| Name           | Type   | Fields |
|----------------|--------|--------|
| geo_areas_pkey | UNIQUE | id     |

## GRAPH\_ACL

Access control table for saved graphs.

### Columns

| Name                                                                                       | Type    | State    | Default | Description                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------|---------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  graph_id | INTEGER | NOT NULL | Ø       | Graph ID. Reference to <a href="#">GRAPHS</a> .                                                                                                                                      |
|  user_id  | INTEGER | NOT NULL | Ø       | User ID. Reference to <a href="#">USERS</a> or <a href="#">USER_GROUPS</a> .                                                                                                         |
| user_rights                                                                                | INTEGER | NOT NULL | Ø       | Bitmasks of effective permissions. Known values: <ul style="list-style-type: none"> <li>• 0x00000001 – Read</li> <li>• 0x00000002 – Modify</li> <li>• 0x00000008 – Delete</li> </ul> |

### Indexes

| Name           | Type   | Fields           |
|----------------|--------|------------------|
| graph_acl_pkey | UNIQUE | graph_id,user_id |

## GRAPHS

Saved graphs.

### Columns

| Name                                                                                       | Type         | State    | Default | Description                                        |
|--------------------------------------------------------------------------------------------|--------------|----------|---------|----------------------------------------------------|
|  graph_id | INTEGER      | NOT NULL | Ø       | Unique identifier.                                 |
| owner_id                                                                                   | INTEGER      | NOT NULL | Ø       | Object owner. Reference to <a href="#">USERS</a> . |
| flags                                                                                      | INTEGER      | NOT NULL | Ø       |                                                    |
| name                                                                                       | VARCHAR(255) | NOT NULL | Ø       | Name of the graph.                                 |
| config                                                                                     | TEXT         | NULL     | Ø       | XML-based configuration of the graph.              |
| filters                                                                                    | TEXT         | NULL     | Ø       |                                                    |

### Indexes

| Name        | Type   | Fields   |
|-------------|--------|----------|
| graphs_pkey | UNIQUE | graph_id |

## HARDWARE\_INVENTORY

Node hardware inventory

### Columns

| Name                                                                                       | Type         | State    | Default | Description                                            |
|--------------------------------------------------------------------------------------------|--------------|----------|---------|--------------------------------------------------------|
|  node_id | INTEGER      | NOT NULL | Ø       | ID of the object. Reference to <a href="#">NODES</a> . |
| component_type                                                                             | VARCHAR(12)  | NOT NULL | Ø       | Component type                                         |
| component_index                                                                            | INTEGER      | NOT NULL | Ø       | Component index                                        |
| vendor                                                                                     | VARCHAR(127) | NULL     | Ø       | Component vendor                                       |
| model                                                                                      | VARCHAR(127) | NULL     | Ø       | Component model                                        |
| capacity                                                                                   | INTEGER      | NOT NULL | Ø       | Access point serial number                             |
| serial_number                                                                              | VARCHAR(63)  | NULL     | Ø       | Component serial number                                |
| part_number                                                                                | VARCHAR(63)  | NULL     | Ø       | Component part number                                  |

### Indexes

| Name                    | Type   | Fields                                 |
|-------------------------|--------|----------------------------------------|
| hardware_inventory_pkey | UNIQUE | node_id,component_type,component_index |

## ICMP\_STATISTICS

Node ICMP statistics

### Columns

| Name                                                                                        | Type        | State    | Default | Description                                                        |
|---------------------------------------------------------------------------------------------|-------------|----------|---------|--------------------------------------------------------------------|
|  object_id | INTEGER     | NOT NULL | Ø       | ID of the node. Reference to <a href="#">NODES</a> .               |
| poll_target                                                                                 | VARCHAR(63) | NOT NULL | Ø       | Poll target                                                        |
| min_response_time                                                                           | INTEGER     | NOT NULL | Ø       | Target minimal target response time                                |
| max_response_time                                                                           | INTEGER     | NOT NULL | Ø       | Target maximal response time                                       |
| avg_response_time                                                                           | INTEGER     | NOT NULL | Ø       | Target average response time                                       |
| last_response_time                                                                          | INTEGER     | NOT NULL | Ø       | Target last response time                                          |
| sample_count                                                                                | INTEGER     | NOT NULL | Ø       | Target sample count                                                |
| raw_response_times                                                                          | TEXT        | NULL     | Ø       | All raw data for the period in hex. 3 hex numbers for each number. |

### Indexes

| Name                 | Type   | Fields                |
|----------------------|--------|-----------------------|
| icmp_statistics_pkey | UNIQUE | object_id,poll_target |

## ICMP\_TARGET\_ADDRESS\_LIST

List of additional ping targets for the node

### Columns

| Name                                                                                        | Type        | State    | Default | Description                                          |
|---------------------------------------------------------------------------------------------|-------------|----------|---------|------------------------------------------------------|
|  node_id | INTEGER     | NOT NULL | Ø       | ID of the node. Reference to <a href="#">NODES</a> . |
| ip_addr                                                                                     | VARCHAR(48) | NOT NULL | Ø       | IP address                                           |

### Indexes

| Name                          | Type   | Fields          |
|-------------------------------|--------|-----------------|
| icmp_target_address_list_pkey | UNIQUE | node_id,ip_addr |

## IDATA

Contains historical values for single-value DCIs for the node. The table is populated only if single table performance data is enabled. Not used when timescale is enabled.

### Columns

| Name                                                                                              | Type         | State    | Default | Description                         |
|---------------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------|
|  item_id         | INTEGER      | NOT NULL | Ø       | Item id from <a href="#">ITEMS</a>  |
|  idata_timestamp | INTEGER      | NOT NULL | Ø       | Unix time stamp for collected value |
| idata_value                                                                                       | VARCHAR(255) | NULL     | Ø       | Collected value.                    |
| raw_value                                                                                         | VARCHAR(255) | NULL     | Ø       | Raw value.                          |

### Indexes

| Name      | Type   | Fields                  |
|-----------|--------|-------------------------|
| idata_key | NORMAL | item_id,idata_timestamp |

## IDATA\_<NODE\_ID>

Contains historical values for single-value DCIs for the node. Table name is dynamic, <NODE\_ID> is replaced by actual node id (e.g. "IDATA\_100"). The table is populated only if single table performance data is disabled. Not used when timescale is enabled.

### Columns

| Name                                                                                                | Type         | State    | Default | Description                        |
|-----------------------------------------------------------------------------------------------------|--------------|----------|---------|------------------------------------|
|  item_id         | INTEGER      | NOT NULL | Ø       | Item id from <a href="#">ITEMS</a> |
|  idata_timestamp | INTEGER      | NOT NULL | Ø       | Unix time stamp                    |
| idata_value                                                                                         | VARCHAR(255) | NULL     | Ø       | Collected value.                   |
| raw_value                                                                                           | VARCHAR(255) | NULL     | Ø       | Raw value.                         |

### Indexes

| Name                             | Type   | Fields                  |
|----------------------------------|--------|-------------------------|
| idx_idata_<NODE_ID>_id_timestamp | NORMAL | item_id,idata_timestamp |

## IDATA\_SC\_180

Contains historical values for single-value DCIs with retention time (90 - 180] days. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                              | Type         | State    | Default | Description                         |
|---------------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------|
|  item_id         | INTEGER      | NOT NULL | Ø       | Item id from <a href="#">ITEMS</a>  |
|  idata_timestamp | TIMESTAMPTZ  | NOT NULL | Ø       | Unix time stamp for collected value |
| idata_value                                                                                       | VARCHAR(255) | NULL     | Ø       | Collected value.                    |
| raw_value                                                                                         | VARCHAR(255) | NULL     | Ø       | Raw value.                          |

### Indexes

| Name             | Type   | Fields                  |
|------------------|--------|-------------------------|
| idata_sc_180_key | NORMAL | item_id,idata_timestamp |

## IDATA\_SC\_30

Contains historical values for single-value DCIs with retention time (7 - 30] days. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                                | Type         | State    | Default | Description                         |
|-----------------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------|
|  item_id         | INTEGER      | NOT NULL | Ø       | Item id from <a href="#">ITEMS</a>  |
|  idata_timestamp | TIMESTAMPTZ  | NOT NULL | Ø       | Unix time stamp for collected value |
| idata_value                                                                                         | VARCHAR(255) | NULL     | Ø       | Collected value.                    |
| raw_value                                                                                           | VARCHAR(255) | NULL     | Ø       | Raw value.                          |

### Indexes

| Name            | Type   | Fields                  |
|-----------------|--------|-------------------------|
| idata_sc_30_key | NORMAL | item_id,idata_timestamp |

## IDATA\_SC\_7

Contains historical values for single-value DCIs with retention time [1 - 7] days. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                              | Type         | State    | Default | Description                         |
|---------------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------|
|  item_id         | INTEGER      | NOT NULL | Ø       | Item id from <a href="#">ITEMS</a>  |
|  idata_timestamp | TIMESTAMPTZ  | NOT NULL | Ø       | Unix time stamp for collected value |
| idata_value                                                                                       | VARCHAR(255) | NULL     | Ø       | Collected value.                    |
| raw_value                                                                                         | VARCHAR(255) | NULL     | Ø       | Raw value.                          |

### Indexes

| Name           | Type   | Fields                  |
|----------------|--------|-------------------------|
| idata_sc_7_key | NORMAL | item_id,idata_timestamp |

## IDATA\_SC\_90

Contains historical values for single-value DCIs with retention time (30 - 90] days. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                                | Type         | State    | Default | Description                         |
|-----------------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------|
|  item_id         | INTEGER      | NOT NULL | Ø       | Item id from <a href="#">ITEMS</a>  |
|  idata_timestamp | TIMESTAMPTZ  | NOT NULL | Ø       | Unix time stamp for collected value |
| idata_value                                                                                         | VARCHAR(255) | NULL     | Ø       | Collected value.                    |
| raw_value                                                                                           | VARCHAR(255) | NULL     | Ø       | Raw value.                          |

### Indexes

| Name            | Type   | Fields                  |
|-----------------|--------|-------------------------|
| idata_sc_90_key | NORMAL | item_id,idata_timestamp |

## IDATA\_SC\_DEFAULT

Contains historical values for single-value DCIs with retention time equal to current default retention time. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                              | Type         | State    | Default | Description                         |
|---------------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------|
|  item_id         | INTEGER      | NOT NULL | Ø       | Item id from <a href="#">ITEMS</a>  |
|  idata_timestamp | TIMESTAMPTZ  | NOT NULL | Ø       | Unix time stamp for collected value |
| idata_value                                                                                       | VARCHAR(255) | NULL     | Ø       | Collected value.                    |
| raw_value                                                                                         | VARCHAR(255) | NULL     | Ø       | Raw value.                          |

### Indexes

| Name                 | Type   | Fields                  |
|----------------------|--------|-------------------------|
| idata_sc_default_key | NORMAL | item_id,idata_timestamp |

## IDATA\_SC\_OTHER

Contains historical values for single-value DCIs with retention time more than 180 days. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                                | Type         | State    | Default | Description                         |
|-----------------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------|
|  item_id         | INTEGER      | NOT NULL | Ø       | Item id from <a href="#">ITEMS</a>  |
|  idata_timestamp | TIMESTAMPTZ  | NOT NULL | Ø       | Unix time stamp for collected value |
| idata_value                                                                                         | VARCHAR(255) | NULL     | Ø       | Collected value.                    |
| raw_value                                                                                           | VARCHAR(255) | NULL     | Ø       | Raw value.                          |

## Indexes

| Name               | Type   | Fields                  |
|--------------------|--------|-------------------------|
| idata_sc_other_key | NORMAL | item_id,idata_timestamp |

# IMAGES

Meta-data for image library.

## Columns

| Name                                                                                   | Type        | State    | Default | Description                          |
|----------------------------------------------------------------------------------------|-------------|----------|---------|--------------------------------------|
|  guid | VARCHAR(36) | NOT NULL | Ø       | Image GUID.                          |
| name                                                                                   | VARCHAR(63) | NOT NULL | Ø       | Name of the image.                   |
| category                                                                               | VARCHAR(63) | NOT NULL | Ø       | Image category.                      |
| mimetype                                                                               | VARCHAR(32) | NOT NULL | Ø       | MIME-type of the image.              |
| protected                                                                              | INTEGER     | NULL     | 0       | Read-only marker for bundled images. |

## Indexes

| Name                     | Type   | Fields        |
|--------------------------|--------|---------------|
| images_name_category_key | UNIQUE | name,category |
| images_pkey              | UNIQUE | guid          |

# INPUT\_FIELDS

Input fields for object tools or object queries

## Columns

| Name                                                                                         | Type        | State    | Default | Description                                                                          |
|----------------------------------------------------------------------------------------------|-------------|----------|---------|--------------------------------------------------------------------------------------|
|  owner_id | INTEGER     | NOT NULL | Ø       | Object id from <a href="#">OBJECT_TOOLS</a> or from <a href="#">OBJECT_QUERIES</a> . |
|  name     | VARCHAR(31) | NOT NULL | Ø       | Input field name                                                                     |

|                                                                                            |              |          |   |                                                                                                                        |
|--------------------------------------------------------------------------------------------|--------------|----------|---|------------------------------------------------------------------------------------------------------------------------|
|  category | CHAR(1)      | NOT NULL | Ø | Input filed category: <ul style="list-style-type: none"> <li>• Q - Object query</li> <li>• T - Object tools</li> </ul> |
| input_type                                                                                 | CHAR(1)      | NOT NULL | Ø | Input type: <ul style="list-style-type: none"> <li>• 0 - TEXT</li> <li>• 1 - PASSWORD</li> <li>• 2 - NUMBER</li> </ul> |
| display_name                                                                               | VARCHAR(127) | NULL     | Ø | Input field display name                                                                                               |
| sequence_num                                                                               | INTEGER      | NOT NULL | Ø | Input field sequence number                                                                                            |
| flags                                                                                      | INTEGER      | NOT NULL | Ø | Input field bit flags: <ul style="list-style-type: none"> <li>• Validate password 1</li> </ul>                         |

### Indexes

| Name              | Type   | Fields                 |
|-------------------|--------|------------------------|
| input_fields_pkey | UNIQUE | category,owner_id,name |

## INTERFACE\_ADDRESS\_LIST

Interface IP addresses

### Columns

| Name                                                                                         | Type        | State    | Default | Description                                  |
|----------------------------------------------------------------------------------------------|-------------|----------|---------|----------------------------------------------|
|  iface_id | INTEGER     | NOT NULL | Ø       | Interface id form <a href="#">INTERFACES</a> |
|  ip_addr  | VARCHAR(48) | NOT NULL | Ø       | IP address                                   |
| ip_netmask                                                                                   | INTEGER     | NOT NULL | Ø       | Network mask                                 |

### Indexes

| Name | Type | Fields |
|------|------|--------|
|------|------|--------|

|                             |        |                  |
|-----------------------------|--------|------------------|
| interface_address_list_pkey | UNIQUE | iface_id,ip_addr |
|-----------------------------|--------|------------------|

## INTERFACE\_VLAN\_LIST

Vlan to interface connection

### Columns

| Name                                                                                       | Type    | State    | Default | Description                                  |
|--------------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------------|
|  iface_id | INTEGER | NOT NULL | Ø       | Interface id from <a href="#">INTERFACES</a> |
|  vlan_id  | INTEGER | NOT NULL | Ø       | Vlan id                                      |

### Indexes

| Name                     | Type   | Fields           |
|--------------------------|--------|------------------|
| interface_vlan_list_pkey | UNIQUE | iface_id,vlan_id |

## INTERFACES

Interface information

### Columns

| Name                                                                                   | Type    | State    | Default | Description                        |
|----------------------------------------------------------------------------------------|---------|----------|---------|------------------------------------|
|  id | INTEGER | NOT NULL | Ø       | Record primary key                 |
| node_id                                                                                | INTEGER | NOT NULL | Ø       | Node id from <a href="#">NODES</a> |
| if_type                                                                                | INTEGER | NOT NULL | Ø       | If type. (SNMP standard values)    |
| if_index                                                                               | INTEGER | NOT NULL | Ø       | Index of interface                 |
| mtu                                                                                    | INTEGER | NOT NULL | Ø       | MTU (bytes)                        |
| speed                                                                                  | BIGINT  | NOT NULL | Ø       | Speed (bps)                        |
| bridge_port                                                                            | INTEGER | NOT NULL | Ø       | Bridge port number                 |
| phy_module                                                                             | INTEGER | NOT NULL | Ø       | Physical module                    |
| phy_port                                                                               | INTEGER | NOT NULL | Ø       | Physical port number               |

|                     |              |          |   |                                                                                                                                                                                                                                                                                                  |
|---------------------|--------------|----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| peer_node_id        | INTEGER      | NOT NULL | Ø | Peer node id from <a href="#">NODES</a>                                                                                                                                                                                                                                                          |
| peer_if_id          | INTEGER      | NOT NULL | Ø | Peer interface id from <a href="#">INTERFACES</a>                                                                                                                                                                                                                                                |
| peer_proto          | INTEGER      | NOT NULL | Ø | Discovery protocol used for peer discovery                                                                                                                                                                                                                                                       |
| mac_addr            | VARCHAR(12)  | NOT NULL | Ø | MAC address                                                                                                                                                                                                                                                                                      |
| required_polls      | INTEGER      | NOT NULL | Ø | Number of polls for status change                                                                                                                                                                                                                                                                |
| admin_state         | INTEGER      | NOT NULL | Ø | Interface administrative states: <ul style="list-style-type: none"> <li>• 0 - IF_ADMIN_STATE_UNKNOWN</li> <li>• 1 - IF_ADMIN_STATE_UP</li> <li>• 2 - IF_ADMIN_STATE_DOWN</li> <li>• 3 - IF_ADMIN_STATE_TESTING</li> </ul>                                                                        |
| oper_state          | INTEGER      | NOT NULL | Ø | Interface operational states: <ul style="list-style-type: none"> <li>• 0 - IF_OPER_STATE_UNKNOWN</li> <li>• 1 - IF_OPER_STATE_UP</li> <li>• 2 - IF_OPER_STATE_DOWN</li> <li>• 3 - IF_OPER_STATE_TESTING</li> <li>• 4 - IF_OPER_STATE_DORMANT</li> <li>• 5 - IF_OPER_STATE_NOT_PRESENT</li> </ul> |
| dot1x_pae_state     | INTEGER      | NOT NULL | Ø | 802.1x PAE state                                                                                                                                                                                                                                                                                 |
| dot1x_backend_state | INTEGER      | NOT NULL | Ø | 802.1x backend state                                                                                                                                                                                                                                                                             |
| description         | VARCHAR(255) | NULL     | Ø | Interface description - value of ifDescr for SNMP, equals to name for NetXMS agent                                                                                                                                                                                                               |
| iftable_suffix      | VARCHAR(127) | NULL     | Ø | SNMP OID suffix in ifTable                                                                                                                                                                                                                                                                       |
| parent_iface        | INTEGER      | NOT NULL | Ø | Interface id from <a href="#">INTERFACES</a>                                                                                                                                                                                                                                                     |
| phy_chassis         | INTEGER      | NOT NULL | Ø | Physical chassis                                                                                                                                                                                                                                                                                 |
| phy_pic             | INTEGER      | NOT NULL | Ø | Physical interface card                                                                                                                                                                                                                                                                          |

|                                 |              |          |   |                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|--------------|----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| oper_slast_known_oper_statetate | INTEGER      | NOT NULL | Ø | <p>Last known interface operational states:</p> <ul style="list-style-type: none"> <li>• 0 - IF_OPER_STATE_UNKNOWN</li> <li>• 1 - IF_OPER_STATE_UP</li> <li>• 2 - IF_OPER_STATE_DOWN</li> <li>• 3 - IF_OPER_STATE_TESTING</li> <li>• 4 - IF_OPER_STATE_DORMANT</li> <li>• 5 - IF_OPER_STATE_NOT_PRESENT</li> </ul> |
| last_known_admin_state          | INTEGER      | NOT NULL | Ø | <p>Last known Interface administrative states:</p> <ul style="list-style-type: none"> <li>• 0 - IF_ADMIN_STATE_UNKNOWN</li> <li>• 1 - IF_ADMIN_STATE_UP</li> <li>• 2 - IF_ADMIN_STATE_DOWN</li> <li>• 3 - IF_ADMIN_STATE_TESTING</li> </ul>                                                                        |
| if_alias                        | VARCHAR(255) | NULL     | Ø | Interface alias                                                                                                                                                                                                                                                                                                    |
| ospf_area                       | VARCHAR(15)  | NULL     | Ø | OSPF area IP address                                                                                                                                                                                                                                                                                               |
| ospf_if_type                    | INTEGER      | NOT NULL | Ø | <p>OSPF interface type:</p> <ul style="list-style-type: none"> <li>• 0 - UNKNOWN</li> <li>• 1 - BROADCAST</li> <li>• 2 - NBMA</li> <li>• 3 - POINT_TO_POINT</li> <li>• 4 - POINT_TO_MULTIPPOINT</li> </ul>                                                                                                         |

|                |              |          |   |                                                                                                                                                                                                                                                                                                        |
|----------------|--------------|----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ospf_if_state  | INTEGER      | NOT NULL | Ø | OSPF interface state: <ul style="list-style-type: none"> <li>• 0 - UNKNOWN</li> <li>• 1 - DOWN</li> <li>• 2 - LOOPBACK</li> <li>• 3 - WAITING</li> <li>• 4 - POINT_TO_POINT</li> <li>• 5 - DESIGNATED_ROUTER</li> <li>• 6 - BACKUP_DESIGNATED_ROUTER</li> <li>• 7 - OTHER_DESIGNATED_ROUTER</li> </ul> |
| stp_port_state | INTEGER      | NOT NULL | Ø | STP port state: <ul style="list-style-type: none"> <li>• 0 - UNKNOWN</li> <li>• 1 - DISABLED</li> <li>• 2 - BLOCKING</li> <li>• 3 - LISTENING</li> <li>• 4 - LEARNING</li> <li>• 5 - FORWARDING</li> <li>• 6 - BROKEN</li> </ul>                                                                       |
| if_name        | VARCHAR(255) | NULL     | Ø | Original interface name as received from SNMP or NetXMS agent (before expansion)                                                                                                                                                                                                                       |

### Indexes

| Name            | Type   | Fields |
|-----------------|--------|--------|
| interfaces_pkey | UNIQUE | id     |

## ITEMS

Data collection configuration for single-value items.

### Columns

| Name                                                                                      | Type          | State    | Default | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------|---------------|----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  item_id | INTEGER       | NOT NULL | Ø       | Unique identifier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| node_id                                                                                   | INTEGER       | NOT NULL | Ø       | Object where DCI is configured. Reference to <a href="#">NODES</a> or <a href="#">CLUSTERS</a> .                                                                                                                                                                                                                                                                                                                                                                                                                    |
| template_id                                                                               | INTEGER       | NOT NULL | Ø       | ID of the source template. If item was created directly on the node, value will be Ø. Reference to <a href="#">TEMPLATES</a> .                                                                                                                                                                                                                                                                                                                                                                                      |
| template_item_id                                                                          | INTEGER       | NOT NULL | Ø       | ID of the DCI in the template. If item was created directly on the node, value will be Ø. Reference to <a href="#">TEMPLATES</a> .                                                                                                                                                                                                                                                                                                                                                                                  |
| guid                                                                                      | VARCHAR(36)   | NOT NULL | Ø       | Record GUID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| name                                                                                      | VARCHAR(1023) | NULL     | Ø       | Name of the parameter. Depending on the source, it can be agent's parameter, SNMP OID, Script name, etc.                                                                                                                                                                                                                                                                                                                                                                                                            |
| description                                                                               | VARCHAR(255)  | NULL     | Ø       | Human readable description of the item.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| flags                                                                                     | INTEGER       | NOT NULL | Ø       | Data collection item flags: <ul style="list-style-type: none"> <li>• DCF_ALL_THRESHOLDS 0x0002</li> <li>• DCF_RAW_VALUE_OCTET_STRING 0x0004</li> <li>• DCF_SHOW_ON_OBJECT_TOOLTIP 0x0008</li> <li>• DCF_AGGREGATE_FUNCTION_MASK 0x0070</li> <li>• DCF_AGGREGATE_ON_CLUSTER 0x0080</li> <li>• DCF_TRANSFORM_AGGREGATED 0x0100</li> <li>• DCF_CALCULATE_NODE_STATUS 0x0400</li> <li>• DCF_SHOW_IN_OBJECT_OVERVIEW 0x0800</li> <li>• DCF_CACHE_MODE_MASK 0x3000</li> <li>• DCF_AGGREGATE_WITH_ERRORS 0x4000</li> </ul> |
| source                                                                                    | INTEGER       | NOT NULL | Ø       | Source node. If this value is non-zero, server will query data from this node instead of the node specified by <a href="#">node_id</a> . Reference to <a href="#">NODES</a> .                                                                                                                                                                                                                                                                                                                                       |
| snmp_port                                                                                 | INTEGER       | NOT NULL | Ø       | SNMP port.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                     |         |          |   |                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|---------|----------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| datatype            | INTEGER | NOT NULL | Ø | <p>Type of data:</p> <ul style="list-style-type: none"> <li>• 0 - DCI_DT_INT</li> <li>• 1 - DCI_DT_UINT</li> <li>• 2 - DCI_DT_INT64</li> <li>• 3 - DCI_DT_UINT64</li> <li>• 4 - DCI_DT_STRING</li> <li>• 5 - DCI_DT_FLOAT</li> <li>• 6 - DCI_DT_NULL</li> <li>• 7 - DCI_DT_COUNTER32</li> <li>• 8 - DCI_DT_COUNTER64</li> <li>• 255 - DCI_DT_DEPRECATED (used internally by agent)</li> </ul> |
| polling_interval    | INTEGER | NOT NULL | Ø | Polling interval in seconds.                                                                                                                                                                                                                                                                                                                                                                  |
| retention_time      | INTEGER | NOT NULL | Ø | Retention time in days.                                                                                                                                                                                                                                                                                                                                                                       |
| status              | INTEGER | NOT NULL | Ø | <p>Status of the DCI. Known values:</p> <ul style="list-style-type: none"> <li>• 0 – Active</li> <li>• 1 – Disabled</li> <li>• 2 – Not Supported</li> </ul>                                                                                                                                                                                                                                   |
| snmp_raw_value_type | INTEGER | NOT NULL | Ø | <p>SNMP raw value type:</p> <ul style="list-style-type: none"> <li>• 0 - SNMP_RAWTYPE_NONE</li> <li>• 1 - SNMP_RAWTYPE_INT32</li> <li>• 2 - SNMP_RAWTYPE_UINT32</li> <li>• 3 - SNMP_RAWTYPE_INT64</li> <li>• 4 - SNMP_RAWTYPE_UINT64</li> <li>• 5 - SNMP_RAWTYPE_DOUBLE</li> <li>• 6 - SNMP_RAWTYPE_IP_ADDR</li> <li>• 7 - SNMP_RAWTYPE_MAC_ADDR</li> </ul>                                   |

|                         |              |          |   |                                                                                                                                                                                                                                                             |
|-------------------------|--------------|----------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| delta_calculation       | INTEGER      | NOT NULL | Ø | Delta calculation methods for DCI: <ul style="list-style-type: none"> <li>• 0 - DCM_ORIGINAL_VALUE</li> <li>• 1 - DCM_SIMPLE</li> <li>• 2 - DCM_AVERAGE_PER_SECOND</li> <li>• 3 - DCM_AVERAGE_PER_MINUTE</li> </ul>                                         |
| transformation          | TEXT         | NULL     | Ø | NXSL transformation script                                                                                                                                                                                                                                  |
| instance                | VARCHAR(255) | NULL     | Ø | Instance                                                                                                                                                                                                                                                    |
| system_tag              | VARCHAR(255) | NULL     | Ø | System tag used by different system modules to save module information                                                                                                                                                                                      |
| resource_id             | INTEGER      | NOT NULL | Ø | Cluster resource id from <a href="#">CLUSTER_RESOURCES</a>                                                                                                                                                                                                  |
| proxy_node              | INTEGER      | NOT NULL | Ø | ID of the proxy node. Reference to <a href="#">NODES</a> .                                                                                                                                                                                                  |
| multiplier              | INTEGER      | NOT NULL | Ø | Multiplier. 0 - for default                                                                                                                                                                                                                                 |
| units_name              | VARCHAR(63)  | NULL     | Ø | Unit name                                                                                                                                                                                                                                                   |
| perftab_settings        | TEXT         | NULL     | Ø | Data collection table XML configuration for Performance tab                                                                                                                                                                                                 |
| instld_method           | INTEGER      | NOT NULL | Ø | Method of instance discovery: <ul style="list-style-type: none"> <li>• 0 – IDM_NONE</li> <li>• 1 – IDM_AGENT_LIST</li> <li>• 2 – IDM_AGENT_TABLE</li> <li>• 3 – IDM_SNMP_WALK_VALUES</li> <li>• 4 – IDM_SNMP_WALK_OIDS</li> <li>• 5 – IDM_SCRIPT</li> </ul> |
| instld_data             | VARCHAR(255) | NULL     | Ø | Data for instance discovery (Script name, Agent list...)                                                                                                                                                                                                    |
| instld_filter           | TEXT         | NULL     | Ø | NXSL instance discovery filter                                                                                                                                                                                                                              |
| samples                 | INTEGER      | NOT NULL | Ø | Number of samples used for reading counter (only for "Windows preformance counter" origin).                                                                                                                                                                 |
| npe_name                | VARCHAR(15)  | NULL     | Ø | Prediction engine name                                                                                                                                                                                                                                      |
| comments                | TEXT         | NULL     | Ø | Data collection item comment                                                                                                                                                                                                                                |
| instance_retention_time | INTEGER      | NOT NULL | Ø | Retention time for deleted instances                                                                                                                                                                                                                        |

|                       |              |          |   |                                                                                                                                                                                                  |
|-----------------------|--------------|----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| grace_period_start    | INTEGER      | NOT NULL | Ø | Start for grade period for deleted instance                                                                                                                                                      |
| related_object        | INTEGER      | NOT NULL | Ø | Related object                                                                                                                                                                                   |
| polling_interval_src  | VARCHAR(255) | NOT NULL | Ø | Source for polling interval calculation                                                                                                                                                          |
| retention_time_src    | VARCHAR(255) | NOT NULL | Ø | Source for retention time calculation                                                                                                                                                            |
| polling_schedule_type | CHAR(1)      | NOT NULL | Ø | Polling schedule type: <ul style="list-style-type: none"> <li>• DC_POLLING_SCHEDULE_DEFAULT = 0</li> <li>• DC_POLLING_SCHEDULE_CUSTOM = 1</li> <li>• DC_POLLING_SCHEDULE_ADVANCED = 2</li> </ul> |
| retention_type        | CHAR(1)      | NOT NULL | Ø | Retention type: <ul style="list-style-type: none"> <li>• DC_RETENTION_DEFAULT = 0</li> <li>• DC_RETENTION_CUSTOM = 1</li> <li>• DC_RETENTION_NONE = 2</li> </ul>                                 |
| snmp_version          | INTEGER      | NOT NULL | Ø | SNMP version                                                                                                                                                                                     |
| state_flags           | INTEGER      | NOT NULL | Ø | State bit flags: <ul style="list-style-type: none"> <li>• DCO_STATE_DISABLED_BY_USER 1</li> </ul>                                                                                                |

### Indexes

| Name              | Type   | Fields  |
|-------------------|--------|---------|
| idx_items_node_id | NORMAL | node_id |
| items_pkey        | UNIQUE | item_id |

## LICENSES

License repository

### Columns

| Name                                                                                   | Type    | State    | Default | Description               |
|----------------------------------------------------------------------------------------|---------|----------|---------|---------------------------|
|  id | INTEGER | NOT NULL | Ø       | License unique identifier |

|         |      |      |   |                 |
|---------|------|------|---|-----------------|
| content | TEXT | NULL | Ø | License content |
|---------|------|------|---|-----------------|

### Indexes

| Name          | Type   | Fields |
|---------------|--------|--------|
| licenses_pkey | UNIQUE | id     |

## MAINTENANCE\_JOURNAL

Maintenance journal

### Columns

| Name                                                                                        | Type    | State    | Default | Description                                               |
|---------------------------------------------------------------------------------------------|---------|----------|---------|-----------------------------------------------------------|
|  record_id | INTEGER | NOT NULL | Ø       | Unique identifier                                         |
| object_id                                                                                   | INTEGER | NOT NULL | Ø       | Object id form <a href="#">NODES</a>                      |
| author                                                                                      | INTEGER | NOT NULL | Ø       | User id <a href="#">USERS</a> that initiated maintenance. |
| last_edited_by                                                                              | INTEGER | NOT NULL | Ø       | User id <a href="#">USERS</a> that made last change.      |
| description                                                                                 | TEXT    | NULL     | Ø       | Maintenance reason.                                       |
| creation_time                                                                               | INTEGER | NOT NULL | Ø       | UNIX timestamp when object entered maintenance            |
| modification_time                                                                           | INTEGER | NOT NULL | Ø       | UNIX timestamp when object maintenance mode last changed  |

### Indexes

| Name                       | Type   | Fields        |
|----------------------------|--------|---------------|
| maintenance_journal_pkey   | UNIQUE | record_id     |
| idx_maintjrn_creation_time | NORMAL | creation_time |
| idx_maintjrn_object_id     | NORMAL | object_id     |

## MAPPING\_DATA

Mapping tables content

### Columns

| Name                                                                                       | Type          | State    | Default | Description                                          |
|--------------------------------------------------------------------------------------------|---------------|----------|---------|------------------------------------------------------|
|  table_id | INTEGER       | NOT NULL | Ø       | Mapping table id form <a href="#">MAPPING_TABLES</a> |
|  md_key   | VARCHAR(63)   | NOT NULL | Ø       | Maping data key                                      |
| md_value                                                                                   | VARCHAR(4000) | NULL     | Ø       | Mapping data value                                   |
| description                                                                                | VARCHAR(4000) | NULL     | Ø       | Maping value description                             |

### Indexes

| Name              | Type   | Fields          |
|-------------------|--------|-----------------|
| mapping_data_pkey | UNIQUE | table_id,md_key |

## MAPPING\_TABLES

Mapping tables

### Columns

| Name                                                                                 | Type          | State    | Default | Description                                                                                        |
|--------------------------------------------------------------------------------------|---------------|----------|---------|----------------------------------------------------------------------------------------------------|
|  id | INTEGER       | NOT NULL | Ø       | Unique mapping table id                                                                            |
| name                                                                                 | VARCHAR(63)   | NOT NULL | Ø       | Mapping table name                                                                                 |
| flags                                                                                | INTEGER       | NOT NULL | Ø       | Mapping table flags: <ul style="list-style-type: none"><li>• MTF_NUMERIC_KEYS 0x00000001</li></ul> |
| description                                                                          | VARCHAR(4000) | NULL     | Ø       | Mapping table description                                                                          |

### Indexes

| Name                | Type   | Fields |
|---------------------|--------|--------|
| mapping_tables_pkey | UNIQUE | id     |

# METADATA

System meta data (DBMS type, schema version, etc.)

## Columns

| Name                                                                                       | Type         | State    | Default | Description    |
|--------------------------------------------------------------------------------------------|--------------|----------|---------|----------------|
|  var_name | VARCHAR(63)  | NOT NULL | Ø       | Variable name  |
| var_value                                                                                  | VARCHAR(255) | NOT NULL | Ø       | Variable value |

## Indexes

| Name          | Type   | Fields   |
|---------------|--------|----------|
| metadata_pkey | UNIQUE | var_name |

# MOBILE\_DEVICES

Mobile devices from object\_properties

## Columns

| Name                                                                                 | Type         | State    | Default | Description              |
|--------------------------------------------------------------------------------------|--------------|----------|---------|--------------------------|
|  id | INTEGER      | NOT NULL | Ø       | Mobile device id         |
| device_id                                                                            | VARCHAR(64)  | NOT NULL | Ø       | Device ID(IMEI or ESN)   |
| vendor                                                                               | VARCHAR(64)  | NULL     | Ø       | Device vendor            |
| model                                                                                | VARCHAR(128) | NULL     | Ø       | Device model             |
| serial_number                                                                        | VARCHAR(64)  | NULL     | Ø       | Serial number            |
| os_name                                                                              | VARCHAR(32)  | NULL     | Ø       | Operating system name    |
| os_version                                                                           | VARCHAR(64)  | NULL     | Ø       | Operation system version |
| user_id                                                                              | VARCHAR(64)  | NULL     | Ø       | User id                  |
| battery_level                                                                        | INTEGER      | NOT NULL | Ø       | Battery charge level     |

|               |             |          |   |                                                                                                                            |
|---------------|-------------|----------|---|----------------------------------------------------------------------------------------------------------------------------|
| comm_protocol | VARCHAR(31) | NULL     | Ø | Communication protocol. One of: <ul style="list-style-type: none"> <li>UNKNOWN</li> <li>NXCP</li> <li>NTCB/FLEX</li> </ul> |
| speed         | VARCHAR(20) | NOT NULL | Ø | Speed in km/h. -1 if unknown.                                                                                              |
| direction     | INTEGER     | NOT NULL | Ø | Direction in azimuth degrees. -1 if unknown.                                                                               |
| altitude      | INTEGER     | NOT NULL | Ø | Altitude above sea level in meters. 0 if unknown.                                                                          |

### Indexes

| Name                | Type   | Fields |
|---------------------|--------|--------|
| mobile_devices_pkey | UNIQUE | id     |

## NC\_PERSISTENT\_STORAGE

Notification channel persistent storage

### Columns

| Name                                                                                           | Type          | State    | Default | Description                                             |
|------------------------------------------------------------------------------------------------|---------------|----------|---------|---------------------------------------------------------|
|  channel_name | VARCHAR(63)   | NOT NULL | Ø       | Channel name from <a href="#">NOTIFICATION_CHANNELS</a> |
|  entry_name  | VARCHAR(127)  | NOT NULL | Ø       | Entry name                                              |
| entry_value                                                                                    | VARCHAR(2000) | NOT NULL | Ø       | Entry value                                             |

### Indexes

| Name                       | Type   | Fields                  |
|----------------------------|--------|-------------------------|
| nc_persistent_storage_pkey | UNIQUE | channel_name,entry_name |

## NETWORK\_MAP\_DELETED\_NODES

Stores location on map for deleted objects (to restore it location if object will come back)

### Columns

| Name                                                                                        | Type    | State    | Default | Description                                      |
|---------------------------------------------------------------------------------------------|---------|----------|---------|--------------------------------------------------|
|  map_id    | INTEGER | NOT NULL | Ø       | Network map id <a href="#">NETWORK_MAPS</a>      |
|  object_id | INTEGER | NOT NULL | Ø       | Object id form <a href="#">OBJECT_PROPERTIES</a> |
| element_index                                                                               | INTEGER | NOT NULL | Ø       | Index of deleted object                          |
| position_x                                                                                  | INTEGER | NOT NULL | Ø       | Element x coordinate position on map             |
| position_y                                                                                  | INTEGER | NOT NULL | Ø       | Element y coordinate position on map             |

### Indexes

| Name                           | Type   | Fields           |
|--------------------------------|--------|------------------|
| network_map_deleted_nodes_pkey | UNIQUE | map_id,object_id |

## NETWORK\_MAP\_ELEMENTS

Elements of network maps

### Columns

| Name                                                                                          | Type    | State    | Default | Description                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------|---------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  map_id      | INTEGER | NOT NULL | Ø       | Network map id <a href="#">NETWORK_MAPS</a>                                                                                                                                                                                                                                  |
|  element_id | INTEGER | NOT NULL | Ø       | Element id                                                                                                                                                                                                                                                                   |
| element_type                                                                                  | INTEGER | NOT NULL | Ø       | Element type: <ul style="list-style-type: none"><li>• 0 - MAP_ELEMENT_GENERIC</li><li>• 1 - MAP_ELEMENT_OBJECT</li><li>• 2 - MAP_ELEMENT_DECORATION</li><li>• 3 - MAP_ELEMENT_DCI_CONTAINER</li><li>• 4 - MAP_ELEMENT_DCI_IMAGE</li><li>• 5 - MAP_ELEMENT_TEXT_BOX</li></ul> |
| element_data                                                                                  | TEXT    | NOT NULL | Ø       | Element data in XML format                                                                                                                                                                                                                                                   |

|       |         |          |   |                                                                  |
|-------|---------|----------|---|------------------------------------------------------------------|
| flags | INTEGER | NOT NULL | Ø | Network map element flags. Currently there are no flags defined. |
|-------|---------|----------|---|------------------------------------------------------------------|

### Indexes

| Name                      | Type   | Fields            |
|---------------------------|--------|-------------------|
| network_map_elements_pkey | UNIQUE | map_id,element_id |

## NETWORK\_MAP\_LINKS

Links on network maps

### Columns

| Name                                                                                      | Type         | State    | Default | Description                                                                                                                                         |
|-------------------------------------------------------------------------------------------|--------------|----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  map_id  | INTEGER      | NOT NULL | Ø       | Network map id from <a href="#">NETWORK_MAPS</a>                                                                                                    |
|  link_id | INTEGER      | NOT NULL | Ø       | Link id                                                                                                                                             |
| element1                                                                                  | INTEGER      | NOT NULL | Ø       | Start element id from <a href="#">NETWORK_MAP_ELEMENTS</a>                                                                                          |
| element2                                                                                  | INTEGER      | NOT NULL | Ø       | End element id <a href="#">NETWORK_MAP_ELEMENTS</a>                                                                                                 |
| link_type                                                                                 | INTEGER      | NOT NULL | Ø       | Link type: <ul style="list-style-type: none"> <li>• 0 - LINK_TYPE_NORMAL</li> <li>• 1 - LINK_TYPE_VPN</li> <li>• 2 - LINK_TYPE_MULTILINK</li> </ul> |
| link_name                                                                                 | VARCHAR(255) | NULL     | Ø       | Link name                                                                                                                                           |
| connector_name1                                                                           | VARCHAR(255) | NULL     | Ø       | First element connector name                                                                                                                        |
| connector_name2                                                                           | VARCHAR(255) | NULL     | Ø       | Second element connector name                                                                                                                       |
| element_data                                                                              | TEXT         | NULL     | Ø       | Element XML configuration                                                                                                                           |
| flags                                                                                     | INTEGER      | NOT NULL | Ø       | Network map link flags. Currently there are no flags defined.                                                                                       |

|                |              |          |   |                                                                                                                                                                                                                                                                                               |
|----------------|--------------|----------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| color_source   | INTEGER      | NOT NULL | Ø | Source of color: <ul style="list-style-type: none"> <li>MAP_LINK_COLOR_SOURCE_UNDEFINED - -1</li> <li>MAP_LINK_COLOR_SOURCE_DEFAULT - 0</li> <li>MAP_LINK_COLOR_SOURCE_OBJECT_STATUS - 1</li> <li>MAP_LINK_COLOR_SOURCE_CUSTOM_COLOR - 2</li> <li>MAP_LINK_COLOR_SOURCE_SCRIPT - 3</li> </ul> |
| color          | INTEGER      | NOT NULL | Ø | Int representation of RGB color                                                                                                                                                                                                                                                               |
| color_provider | VARCHAR(255) | NULL     | Ø | Color provide script name                                                                                                                                                                                                                                                                     |

### Indexes

| Name                          | Type   | Fields         |
|-------------------------------|--------|----------------|
| network_map_links_map_id_pkey | UNIQUE | map_id,link_id |
| idx_network_map_links_map_id  | NORMAL | map_id         |

## NETWORK\_MAP\_SEED\_NODES

Nodes that will be used as a start point for automatic map build.

### Columns

| Name                                                                                             | Type    | State    | Default | Description                                      |
|--------------------------------------------------------------------------------------------------|---------|----------|---------|--------------------------------------------------|
|  map_id       | INTEGER | NOT NULL | Ø       | Network map id from <a href="#">NETWORK_MAPS</a> |
|  seed_node_id | INTEGER | NOT NULL | Ø       | Node is from <a href="#">NODES</a>               |

### Indexes

| Name                        | Type   | Fields              |
|-----------------------------|--------|---------------------|
| network_map_seed_nodes_pkey | UNIQUE | map_id,seed_node_id |

# NETWORK\_MAPS

Network maps

## Columns

| Name                                                                                 | Type        | State    | Default | Description                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------|-------------|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  id | INTEGER     | NOT NULL | ∅       | Network map id unique id from <a href="#">OBJECT_PROPERTIES</a>                                                                                                                                                                                                      |
| map_type                                                                             | INTEGER     | NOT NULL | ∅       | Network map type: <ul style="list-style-type: none"><li>• 0 - MAP_TYPE_CUSTOM</li><li>• 1 - MAP_TYPE_LAYER2_TOPOLOGY</li><li>• 2 - MAP_TYPE_IP_TOPOLOGY</li></ul>                                                                                                    |
| layout                                                                               | INTEGER     | NOT NULL | ∅       | Network map layout: <ul style="list-style-type: none"><li>• 0x7FFF - MAP_LAYOUT_MANUAL</li><li>• 0 - MAP_LAYOUT_SPRING</li><li>• 1 - MAP_LAYOUT_RADIAL</li><li>• 2 - MAP_LAYOUT_HTREE</li><li>• 3 - MAP_LAYOUT_VTREE</li><li>• 4 - MAP_LAYOUT_SPARSE_VTREE</li></ul> |
| radius                                                                               | INTEGER     | NOT NULL | ∅       | Discovery radius form automatic maps                                                                                                                                                                                                                                 |
| background                                                                           | VARCHAR(36) | NULL     | ∅       | UUID of background image                                                                                                                                                                                                                                             |
| bg_latitude                                                                          | VARCHAR(20) | NULL     | ∅       | Background latitude, when map is used as a background                                                                                                                                                                                                                |
| bg_longitude                                                                         | VARCHAR(20) | NULL     | ∅       | Background longitude, when map is used as a background                                                                                                                                                                                                               |
| bg_zoom                                                                              | INTEGER     | NULL     | ∅       | Background zoom, when map is used as a background                                                                                                                                                                                                                    |
| bg_color                                                                             | INTEGER     | NOT NULL | ∅       | RGB representation of background color                                                                                                                                                                                                                               |
| link_color                                                                           | INTEGER     | NOT NULL | ∅       | Default link color (RGB)                                                                                                                                                                                                                                             |

|                     |         |          |   |                                                                                                                                                                                                |
|---------------------|---------|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| link_routing        | INTEGER | NOT NULL | ∅ | Default link routing: <ul style="list-style-type: none"> <li>• 0 - ROUTING_DEFAULT</li> <li>• 1 - ROUTING_DIRECT</li> <li>• 2 - ROUTING_MANHATTAN</li> <li>• 3 - ROUTING_BENDPOINTS</li> </ul> |
| object_display_mode | INTEGER | NOT NULL | ∅ | Object display mode: <ul style="list-style-type: none"> <li>• 0 - ICON</li> <li>• 1 - SMALL_LABEL</li> <li>• 2 - LARGE_LABEL</li> <li>• 3 - STATUS</li> <li>• 4 - FLOOR_PLAN</li> </ul>        |
| filter              | TEXT    | NULL     | ∅ | Network map NXSL object filter for automatic maps                                                                                                                                              |

### Indexes

| Name              | Type   | Fields |
|-------------------|--------|--------|
| network_maps_pkey | UNIQUE | id     |

## NETWORK\_SERVICES

Network services

### Columns

| Name                                                                                   | Type    | State    | Default | Description                                                              |
|----------------------------------------------------------------------------------------|---------|----------|---------|--------------------------------------------------------------------------|
|  id | INTEGER | NOT NULL | ∅       | Network service unique identifier from <a href="#">OBJECT_PROPERTIES</a> |
| node_id                                                                                | INTEGER | NOT NULL | ∅       | Service location node id form <a href="#">NODES</a>                      |

|                |             |          |   |                                                                                                                                                                                                                                                                                   |
|----------------|-------------|----------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| service_type   | INTEGER     | NOT NULL | Ø | Service type: <ul style="list-style-type: none"> <li>• 0 - NETSRV_CUSTOM</li> <li>• 1 - NETSRV_SSH</li> <li>• 2 - NETSRV_POP3</li> <li>• 3 - NETSRV_SMTP</li> <li>• 4 - NETSRV_FTP</li> <li>• 5 - NETSRV_HTTP</li> <li>• 6 - NETSRV_HTTPS</li> <li>• 7 - NETSRV_TELNET</li> </ul> |
| ip_bind_addr   | VARCHAR(48) | NOT NULL | Ø | Listen IP address                                                                                                                                                                                                                                                                 |
| ip_proto       | INTEGER     | NOT NULL | Ø | IP protocol                                                                                                                                                                                                                                                                       |
| ip_port        | INTEGER     | NOT NULL | Ø | TCP/UDP port                                                                                                                                                                                                                                                                      |
| check_request  | TEXT        | NULL     | Ø | Check request                                                                                                                                                                                                                                                                     |
| check_response | TEXT        | NULL     | Ø | Check response                                                                                                                                                                                                                                                                    |
| poller_node_id | INTEGER     | NOT NULL | Ø | Node id that does polling form <a href="#">NODES</a> if polling should be done not from service parent node.                                                                                                                                                                      |
| required_polls | INTEGER     | NOT NULL | Ø | Number of pols required to change service status                                                                                                                                                                                                                                  |

### Indexes

| Name                  | Type   | Fields |
|-----------------------|--------|--------|
| network_services_pkey | UNIQUE | id     |

## NODE\_COMPONENTS

Node hardware components retrieved using Entity MIB.

### Columns

| Name                                                                                        | Type    | State    | Default | Description                                          |
|---------------------------------------------------------------------------------------------|---------|----------|---------|------------------------------------------------------|
|  node_id | INTEGER | NOT NULL | Ø       | Node object ID. Reference to <a href="#">NODES</a> . |

|                                                                                                   |              |          |   |                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------|--------------|----------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  component_index | INTEGER      | NOT NULL | Ø | Unique component index.                                                                                                                                                                                                                                                                                                                                  |
| parent_index                                                                                      | INTEGER      | NOT NULL | Ø | Index of parent component (0 for root component).                                                                                                                                                                                                                                                                                                        |
| position                                                                                          | INTEGER      | NOT NULL | Ø | Relative position within parent component.                                                                                                                                                                                                                                                                                                               |
| component_class                                                                                   | INTEGER      | NOT NULL | Ø | Physical class of the component. <ul style="list-style-type: none"> <li>• 1 – Other</li> <li>• 2 – Unknown</li> <li>• 3 – Chassis</li> <li>• 4 – Backplane</li> <li>• 5 - Container</li> <li>• 6 - Power supply</li> <li>• 7 - Fan</li> <li>• 8 - Sensor</li> <li>• 9 - Module</li> <li>• 10 - Port</li> <li>• 11 - Stack</li> <li>• 12 - CPU</li> </ul> |
| if_index                                                                                          | INTEGER      | NOT NULL | Ø | Interface index of related network interface or 0.                                                                                                                                                                                                                                                                                                       |
| name                                                                                              | VARCHAR(255) | NULL     | Ø | Component's name.                                                                                                                                                                                                                                                                                                                                        |
| description                                                                                       | VARCHAR(255) | NULL     | Ø | Component's description.                                                                                                                                                                                                                                                                                                                                 |
| model                                                                                             | VARCHAR(255) | NULL     | Ø | Component's model name.                                                                                                                                                                                                                                                                                                                                  |
| serial_number                                                                                     | VARCHAR(63)  | NULL     | Ø | Component's serial number.                                                                                                                                                                                                                                                                                                                               |
| vendor                                                                                            | VARCHAR(63)  | NULL     | Ø | Component's vendor name.                                                                                                                                                                                                                                                                                                                                 |
| firmware                                                                                          | VARCHAR(127) | NULL     | Ø | Component's firmware information.                                                                                                                                                                                                                                                                                                                        |

### Indexes

| Name                 | Type   | Fields                   |
|----------------------|--------|--------------------------|
| node_components_pkey | UNIQUE | node_id, component_index |

# NODES

Nodes

## Columns

| Name                                                                                 | Type         | State    | Default | Description                                                                                                                                  |
|--------------------------------------------------------------------------------------|--------------|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------|
|  id | INTEGER      | NOT NULL | Ø       | Node id from <a href="#">OBJECT_PROPERTIES</a>                                                                                               |
| primary_name                                                                         | VARCHAR(255) | NULL     | Ø       | Primary host name                                                                                                                            |
| primary_ip                                                                           | VARCHAR(48)  | NOT NULL | Ø       | Primary IP (resolved primary host name)                                                                                                      |
| snmp_version                                                                         | INTEGER      | NOT NULL | Ø       | SNMP version <ul style="list-style-type: none"><li>• 0 - SNMP_VERSION_1</li><li>• 1 - SNMP_VERSION_2C</li><li>• 3 - SNMP_VERSION_3</li></ul> |
| snmp_port                                                                            | INTEGER      | NOT NULL | Ø       | SNMP port                                                                                                                                    |
| community                                                                            | VARCHAR(127) | NULL     | Ø       | SNMP community string                                                                                                                        |
| usm_auth_password                                                                    | VARCHAR(127) | NULL     | Ø       | SNMP v3 authentication password                                                                                                              |
| usm_priv_password                                                                    | VARCHAR(127) | NULL     | Ø       | SNMP v3 encryption password                                                                                                                  |
| usm_methods                                                                          | INTEGER      | NOT NULL | Ø       | SNMP v3 authentication and encryption methods                                                                                                |
| snmp_oid                                                                             | VARCHAR(255) | NULL     | Ø       | SNMP object id                                                                                                                               |
| secret                                                                               | VARCHAR(88)  | NULL     | Ø       | Agent shared secret                                                                                                                          |
| agent_port                                                                           | INTEGER      | NOT NULL | Ø       | Agent port                                                                                                                                   |
| agent_version                                                                        | VARCHAR(63)  | NULL     | Ø       | Agent version                                                                                                                                |
| platform_name                                                                        | VARCHAR(63)  | NULL     | Ø       | Platform name as reported by agent                                                                                                           |
| poller_node_id                                                                       | INTEGER      | NOT NULL | Ø       | Id of node from <a href="#">NODES</a> used for network service polling for this node                                                         |
| zone_guid                                                                            | INTEGER      | NOT NULL | Ø       | Zone unique identification number from <a href="#">ZONES</a>                                                                                 |
| proxy_node                                                                           | INTEGER      | NOT NULL | Ø       | Agent proxy node id from <a href="#">NODES</a>                                                                                               |
| snmp_proxy                                                                           | INTEGER      | NOT NULL | Ø       | SNMP proxy node id from <a href="#">NODES</a>                                                                                                |
| icmp_proxy                                                                           | INTEGER      | NOT NULL | Ø       | ICMP proxy node id from <a href="#">NODES</a>                                                                                                |

| Name                  | Type         | State    | Default | Description                                                                                                                                                                         |
|-----------------------|--------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| required_polls        | INTEGER      | NOT NULL | Ø       | Number of polls for status change                                                                                                                                                   |
| uname                 | VARCHAR(255) | NULL     | Ø       | System description                                                                                                                                                                  |
| use_ifxtable          | INTEGER      | NOT NULL | Ø       | ifXTable usage mode: <ul style="list-style-type: none"> <li>• 0 - IFXTABLE_DEFAULT Use global settings</li> <li>• 1 - IFXTABLE_ENABLED</li> <li>• 2 - IFXTABLE_DISABLED</li> </ul>  |
| snmp_sys_name         | VARCHAR(127) | NULL     | Ø       | System name as reported by SNMP agent                                                                                                                                               |
| snmp_sys_contact      | VARCHAR(127) | NULL     | Ø       | System contact as reported by SNMP agent                                                                                                                                            |
| snmp_sys_location     | VARCHAR(255) | NULL     | Ø       | System location as reported by SNMP agent                                                                                                                                           |
| bridge_base_addr      | VARCHAR(15)  | NULL     | Ø       | Bridge base address                                                                                                                                                                 |
| down_since            | INTEGER      | NOT NULL | Ø       | Unix timestamp of last SYS_NODE_DOWN event                                                                                                                                          |
| boot_time             | INTEGER      | NOT NULL | Ø       | Node boot time (as UNIX timestamp)                                                                                                                                                  |
| driver_name           | VARCHAR(32)  | NULL     | Ø       | Network device driver name                                                                                                                                                          |
| rack_image_front      | VARCHAR(36)  | NULL     | Ø       | Image GUID to be used in front rack view                                                                                                                                            |
| rack_position         | INTEGER      | NOT NULL | Ø       | Position in rack (in rack units)                                                                                                                                                    |
| rack_height           | INTEGER      | NOT NULL | Ø       | Height in rack (in rack units)                                                                                                                                                      |
| physical_container_id | INTEGER      | NOT NULL | Ø       | Related rack or chassis object ID                                                                                                                                                   |
| agent_cache_mode      | CHAR(1)      | NOT NULL | Ø       | Agent cache mode: <ul style="list-style-type: none"> <li>• 0 - AGENT_CACHE_DEFAULT Use global configuration</li> <li>• 1 - AGENT_CACHE_ON</li> <li>• 2 - AGENT_CACHE_OFF</li> </ul> |
| last_agent_comm_time  | INTEGER      | NOT NULL | Ø       | Last agent communication time (as UNIX timestamp)                                                                                                                                   |
| syslog_msg_count      | BIGINT       | NOT NULL | Ø       | Total number of received syslog messages                                                                                                                                            |
| snmp_trap_count       | BIGINT       | NOT NULL | Ø       | Total number of received SNMP traps                                                                                                                                                 |

| Name                  | Type         | State    | Default | Description                                                                                                                                                                                                                          |
|-----------------------|--------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| node_type             | INTEGER      | NOT NULL | Ø       | Node type: <ul style="list-style-type: none"> <li>• 0 - NODE_TYPE_UNKNOWN</li> <li>• 1 - NODE_TYPE_PHYSICAL</li> <li>• 2 - NODE_TYPE_VIRTUAL</li> <li>• 3 - NODE_TYPE_CONTROLLER</li> <li>• 4 - NODE_TYPE_CONTAINER</li> </ul>       |
| node_subtype          | VARCHAR(127) | NULL     | Ø       | Node sub-type                                                                                                                                                                                                                        |
| ssh_login             | VARCHAR(63)  | NULL     | Ø       | SSH login                                                                                                                                                                                                                            |
| ssh_password          | VARCHAR(63)  | NULL     | Ø       | SSH password                                                                                                                                                                                                                         |
| ssh_proxy             | INTEGER      | NOT NULL | Ø       | SSH proxy node id from <a href="#">NODES</a>                                                                                                                                                                                         |
| port_rows             | INTEGER      | NOT NULL | Ø       | Number of port rows                                                                                                                                                                                                                  |
| port_numbering_scheme | INTEGER      | NOT NULL | Ø       | Numbering scheme of ports                                                                                                                                                                                                            |
| agent_comp_mode       | CHAR(1)      | NOT NULL | Ø       | Agent compression mode: <ul style="list-style-type: none"> <li>• 0 - NODE_AGENT_COMPRESSION_DEFAULT Use global configuration</li> <li>• 1 - NODE_AGENT_COMPRESSION_ENABLED</li> <li>• 2 - NODE_AGENT_COMPRESSION_DISABLED</li> </ul> |
| tunnel_id             | VARCHAR(36)  | NULL     | Ø       | GUID of bound tunnel                                                                                                                                                                                                                 |
| lldp_id               | VARCHAR(63)  | NULL     | Ø       | LLDP id                                                                                                                                                                                                                              |
| fail_time_snmp        | INTEGER      | NOT NULL | Ø       | Last SNMP request file time                                                                                                                                                                                                          |
| fail_time_agent       | INTEGER      | NOT NULL | Ø       | Last agent request file time                                                                                                                                                                                                         |
| rack_orientation      | INTEGER      | NOT NULL | Ø       | Rack orientation type: <ul style="list-style-type: none"> <li>• 0 - FILL</li> <li>• 1 - FRONT</li> <li>• 2 - REAR</li> </ul>                                                                                                         |
| rack_image_rear       | VARCHAR(36)  | NOT NULL | Ø       | Image GUID to be used in rear rack view                                                                                                                                                                                              |
| agent_id              | VARCHAR(36)  | NULL     | Ø       | Agent id                                                                                                                                                                                                                             |

| Name               | Type         | State | Default | Description                                                                                                                                                                                                                                                                                  |
|--------------------|--------------|-------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| agent_cert_subject | VARCHAR(500) | NULL  | ∅       | Agent certificate subject                                                                                                                                                                                                                                                                    |
| hypervisor_type    | VARCHAR(31)  | NULL  | ∅       | <p>Hypervisor type. Wel known types:</p> <ul style="list-style-type: none"> <li>• OpenVZ</li> <li>• Linux-VServer</li> <li>• LXC</li> <li>• Docker</li> <li>• XEN</li> <li>• VMware</li> <li>• Hyper-V</li> <li>• KVM</li> <li>• bhyve</li> <li>• Parallels</li> <li>• VirtualBox</li> </ul> |
| hypervisor_info    | VARCHAR(255) | NULL  | ∅       | Hypervisor info that might be or might not be. There can be some version information.                                                                                                                                                                                                        |

| Name                     | Type          | State    | Default | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|---------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| capabilities             | INTEGER       | NOT NULL | ∅       | <p>Node capabilities:</p> <ul style="list-style-type: none"> <li>• 0x00000001 - NC_IS_SNMP</li> <li>• 0x00000002 - NC_IS_NATIVE_AGENT</li> <li>• 0x00000004 - NC_IS_BRIDGE</li> <li>• 0x00000008 - NC_IS_ROUTER</li> <li>• 0x00000010 - NC_IS_LOCAL_MGMT</li> <li>• 0x00000020 - NC_IS_PRINTER</li> <li>• 0x00000040 - NC_IS OSPF</li> <li>• 0x00000080 - NC_IS_CPSNMP CheckPoint SNMP agent on port 260.</li> <li>• 0x00000100 - NC_IS_CDP</li> <li>• 0x00000200 - NC_IS_NDP Supports Nortel (Synoptics/Bay Networks) topology discovery. SONMP is an old name for NDP.</li> <li>• 0x00000400 - NC_IS_LLDP Supports Link Layer Discovery Protocol.</li> <li>• 0x00000800 - NC_IS_VRRP VRRP support.</li> <li>• 0x00001000 - NC_HAS_VLANS VLAN information available.</li> <li>• 0x00002000 - NC_IS_8021X 802.1x support enabled on node.</li> <li>• 0x00004000 - NC_IS_STP Spanning Tree (IEEE 802.1d) enabled on node.</li> <li>• 0x00008000 - NC_HAS_ENTITY_MIB Supports ENTITY-MIB.</li> <li>• 0x00010000 - NC_HAS_IFXTABLE Supports ifXTable.</li> <li>• 0x00020000 - NC_HAS_AGENT_IFXCOUNTERS Agent supports 64-bit interface counters.</li> <li>• 0x00040000 - NC_HAS_WINPDH Node supports Windows PDH parameters.</li> <li>• 0x00080000 - NC_IS_WIFI_CONTROLLER Node is wireless network controller.</li> <li>• 0x00100000 - NC_IS_SMCLP Node supports SMCLP protocol.</li> <li>• 0x00200000 - NC_IS_NEW_POLICY_TYPES Defines if agent is already upgraded to new policy type.</li> <li>• 0x00400000 - NC_IS_USER_AGENT_INSTALLED Defines if user agent is installed.</li> </ul> |
| icmp_poll_mode           | CHAR(1)       | NOT NULL | ∅       | Icmp poll mode 0 - default, 1 - on, 2 - off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| chassis_placement_config | VARCHAR(2000) | NULL     | ∅       | Chassis placement XML configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Name                      | Type         | State    | Default | Description                                                                                                                                                                                                                                |
|---------------------------|--------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| vendor                    | VARCHAR(127) | NULL     | Ø       | Vendor                                                                                                                                                                                                                                     |
| product_name              | VARCHAR(127) | NULL     | Ø       | Product name                                                                                                                                                                                                                               |
| product_version           | VARCHAR(15)  | NULL     | Ø       | Product version                                                                                                                                                                                                                            |
| product_code              | VARCHAR(31)  | NULL     | Ø       | Product code                                                                                                                                                                                                                               |
| serial_number             | VARCHAR(31)  | NULL     | Ø       | Serial number                                                                                                                                                                                                                              |
| cip_device_type           | INTEGER      | NOT NULL | Ø       | CIP device type                                                                                                                                                                                                                            |
| cip_status                | INTEGER      | NOT NULL | Ø       | CIP status                                                                                                                                                                                                                                 |
| cip_state                 | INTEGER      | NOT NULL | Ø       | CIP state                                                                                                                                                                                                                                  |
| cip_vendor_code           | INTEGER      | NOT NULL | Ø       | CIP vendor code                                                                                                                                                                                                                            |
| eip_port                  | INTEGER      | NOT NULL | Ø       | EtherNet/IP port                                                                                                                                                                                                                           |
| eip_proxy                 | INTEGER      | NOT NULL | Ø       | EtherNet/IP port                                                                                                                                                                                                                           |
| hardware_id               | VARCHAR(40)  | NULL     | Ø       | Node's unique hardware id                                                                                                                                                                                                                  |
| agent_cert_mapping_method | CHAR(1)      | NOT NULL | Ø       | Certificate mapping method: <ul style="list-style-type: none"> <li>• MAP_CERTIFICATE_BY_SUBJECT - 0</li> <li>• MAP_CERTIFICATE_BY_PUBKEY - 1</li> <li>• MAP_CERTIFICATE_BY_CN - 2</li> <li>• MAP_CERTIFICATE_BY_TEMPLATE_ID - 3</li> </ul> |
| agent_cert_mapping_data   | VARCHAR(500) | NULL     | Ø       | Agent certificate mapping data                                                                                                                                                                                                             |
| snmp_engine_id            | VARCHAR(255) | NULL     | Ø       | SNMP engine id                                                                                                                                                                                                                             |
| ssh_port                  | INTEGER      | NOT NULL | Ø       | SSH port for node                                                                                                                                                                                                                          |
| ssh_key_id                | INTEGER      | NOT NULL | Ø       | SSH key id form <a href="#">SSH_KEYS</a>                                                                                                                                                                                                   |
| syslog_codepage           | VARCHAR(15)  | NULL     | Ø       | Code page used for syslog messages from this node.                                                                                                                                                                                         |
| snmp_codepage             | VARCHAR(15)  | NULL     | Ø       | Code page used for SNMP messages from this node.                                                                                                                                                                                           |
| fail_time_ssh             | INTEGER      | NOT NULL | Ø       | SSH connection fail UNIX timestamp                                                                                                                                                                                                         |
| ospf_router_id            | VARCHAR(15)  | NULL     | Ø       | OSPF router IP address                                                                                                                                                                                                                     |
| mqtt_proxy                | INTEGER      | NOT NULL | Ø       | MQTT froxy node id form <a href="#">NODES</a>                                                                                                                                                                                              |
| modbus_proxy              | INTEGER      | NOT NULL | Ø       | MODBUS froxy node id form <a href="#">NODES</a>                                                                                                                                                                                            |

| Name                   | Type         | State    | Default | Description            |
|------------------------|--------------|----------|---------|------------------------|
| modbus_tcp_port        | INTEGER      | NOT NULL | Ø       | MODBUS TCP port        |
| modbus_unit_id         | INTEGER      | NOT NULL | Ø       | MODBUS unit id         |
| snmp_context_engine_id | VARCHAR(255) | NULL     | Ø       | SNMP context engine id |

### Indexes

| Name       | Type   | Fields |
|------------|--------|--------|
| nodes_pkey | UNIQUE | id     |

## NOTIFICATION\_CHANNELS

Configuration for notification channels

### Columns

| Name                                                                                   | Type         | State    | Default | Description                        |
|----------------------------------------------------------------------------------------|--------------|----------|---------|------------------------------------|
|  name | VARCHAR(63)  | NOT NULL | Ø       | Notification name                  |
| driver_name                                                                            | VARCHAR(63)  | NOT NULL | Ø       | Driver name                        |
| description                                                                            | VARCHAR(255) | NULL     | Ø       | Channel description                |
| configuration                                                                          | TEXT         | NULL     | Ø       | Notification channel configuration |

### Indexes

| Name                       | Type   | Fields |
|----------------------------|--------|--------|
| notification_channels_pkey | UNIQUE | name   |

## NOTIFICATION\_LOG

Table contains log for all sent notifications

### Columns

| Name | Type | State | Default | Description |
|------|------|-------|---------|-------------|
|------|------|-------|---------|-------------|

|                                                                                      |               |          |   |                                                                         |
|--------------------------------------------------------------------------------------|---------------|----------|---|-------------------------------------------------------------------------|
|  id | BIGINT        | NOT NULL | Ø | Unique id.                                                              |
| notification_timestamp                                                               | INTEGER       | NOT NULL | Ø | UNIX timestamp when notification was sent                               |
| notification_channel                                                                 | VARCHAR(63)   | NOT NULL | Ø | Name of notification channel form <a href="#">NOTIFICATION_CHANNELS</a> |
| recipient                                                                            | VARCHAR(2000) | NULL     | Ø | Recipient list                                                          |
| subject                                                                              | VARCHAR(2000) | NULL     | Ø | Message subject                                                         |
| message                                                                              | VARCHAR(2000) | NULL     | Ø | Message                                                                 |
| success                                                                              | CHAR(1)       | NULL     | Ø | "1" if message sent successfully and "0" if not                         |

### Indexes

| Name                           | Type   | Fields                    |
|--------------------------------|--------|---------------------------|
| notification_log_pkey          | UNIQUE | id,notification_timestamp |
| idx_notification_log_timestamp | NORMAL | notification_timestamp    |

## NSMAP

Nodes to subnets mapping

### Columns

| Name                                                                                         | Type    | State    | Default | Description                            |
|----------------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------|
|  subnet_id | INTEGER | NOT NULL | Ø       | Subnet id from <a href="#">SUBNETS</a> |
|  node_id  | INTEGER | NOT NULL | Ø       | Node id from <a href="#">NODES</a>     |

### Indexes

| Name        | Type   | Fields            |
|-------------|--------|-------------------|
| nsmmap_pkey | UNIQUE | subnet_id,node_id |

## OBJECT\_ACCESS\_SNAPSHOT

Snapshot for object access rights

## Columns

| Name                                                                                        | Type    | State    | Default | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------|---------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  user_id   | INTEGER | NOT NULL | ∅       | User id from <a href="#">USERS</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  object_id | INTEGER | NOT NULL | ∅       | Object id from <a href="#">OBJECT_PROPERTIES</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| access_rights                                                                               | INTEGER | NOT NULL | ∅       | <p>Access rights:</p> <ul style="list-style-type: none"> <li>• OBJECT_ACCESS_READ 0x00000001</li> <li>• OBJECT_ACCESS_MODIFY 0x00000002</li> <li>• OBJECT_ACCESS_CREATE 0x00000004</li> <li>• OBJECT_ACCESS_DELETE 0x00000008</li> <li>• OBJECT_ACCESS_READ_ALARMS 0x00000010</li> <li>• OBJECT_ACCESS_ACL 0x00000020</li> <li>• OBJECT_ACCESS_UPDATE_ALARMS 0x00000040</li> <li>• OBJECT_ACCESS_SEND_EVENTS 0x00000080</li> <li>• OBJECT_ACCESS_CONTROL 0x00000100</li> <li>• OBJECT_ACCESS_TERM_ALARMS 0x00000200</li> <li>• OBJECT_ACCESS_PUSH_DATA 0x00000400</li> <li>• OBJECT_ACCESS_CREATE_ISSUE 0x00000800</li> <li>• OBJECT_ACCESS_DOWNLOAD 0x00001000</li> <li>• OBJECT_ACCESS_UPLOAD 0x00002000</li> <li>• OBJECT_ACCESS_MANAGE_FILES 0x00004000</li> <li>• OBJECT_ACCESS_MAINTENANCE 0x00008000</li> <li>• OBJECT_ACCESS_READ_AGENT 0x00010000</li> <li>• OBJECT_ACCESS_READ_SNMP 0x00020000</li> <li>• OBJECT_ACCESS_SCREENSHOT 0x00040000</li> </ul> |

## Indexes

| Name                        | Type   | Fields            |
|-----------------------------|--------|-------------------|
| object_access_snapshot_pkey | UNIQUE | user_id,object_id |

# OBJECT\_CATEGORIES

Categories of object

## Columns

| Name                                                                                 | Type        | State    | Default | Description                                              |
|--------------------------------------------------------------------------------------|-------------|----------|---------|----------------------------------------------------------|
|  id | INTEGER     | NOT NULL | Ø       | Unique identifier.                                       |
| name                                                                                 | VARCHAR(63) | NOT NULL | Ø       | Category name.                                           |
| icon                                                                                 | VARCHAR(36) | NULL     | Ø       | Icon uid from <a href="#">IMAGES</a> used as icon image. |
| map_image                                                                            | VARCHAR(36) | NULL     | Ø       | Icon uid from <a href="#">IMAGES</a> used as map image.  |

## Indexes

| Name                   | Type   | Fields |
|------------------------|--------|--------|
| object_categories_pkey | UNIQUE | id     |

# OBJECT\_CONTAINERS

All types of object containers like: node container, template group, policy group, network map group, business services, node link and deshboard group.

## Columns

| Name                                                                                   | Type    | State    | Default | Description        |
|----------------------------------------------------------------------------------------|---------|----------|---------|--------------------|
|  id | INTEGER | NOT NULL | Ø       | Unique identifier. |

|              |         |          |   |                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|---------|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| object_class | INTEGER | NOT NULL | Ø | Object class: <ul style="list-style-type: none"> <li>• 5 - OBJECT_CONTAINER</li> <li>• 9 - OBJECT_TEMPLATEGROUP</li> <li>• 15 - OBJECT_BUSINESS_SERVICE_PROTOTYPE</li> <li>• 20 - OBJECT_NETWORKMAPGROUP</li> <li>• 23 - OBJECT_DASHBOARD</li> <li>• 28 - OBJECT_BUSINESS_SERVICE</li> <li>• 29 - OBJECT_NODELINK</li> <li>• 32 - OBJECT_RACK</li> <li>• 36 - OBJECT_DASHBOARDGROUP</li> </ul> |
|--------------|---------|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Indexes

| Name                   | Type   | Fields |
|------------------------|--------|--------|
| object_containers_pkey | UNIQUE | id     |

## OBJECT\_CUSTOM\_ATTRIBUTES

Object custom attributes

### Columns

| Name                                                                                          | Type         | State    | Default | Description                      |
|-----------------------------------------------------------------------------------------------|--------------|----------|---------|----------------------------------|
|  object_id | INTEGER      | NOT NULL | Ø       | Object id from object_properties |
|  attr_name | VARCHAR(127) | NOT NULL | Ø       | Object attribute name            |
| attr_value                                                                                    | TEXT         | NULL     | Ø       | Object attribute value           |
| flags                                                                                         | INTEGER      | NOT NULL | Ø       | Object attribute value           |

### Indexes

| Name           | Type   | Fields    |
|----------------|--------|-----------|
| idx_ocattr_oid | NORMAL | object_id |

|                               |        |                     |
|-------------------------------|--------|---------------------|
| object_custom_attributes_pkey | UNIQUE | object_id,attr_name |
|-------------------------------|--------|---------------------|

## OBJECT\_PROPERTIES

Object properties of NetObj and everything that is inherited from it(Dashboard, Interface, Node...)

### Columns

| Name                                                                                        | Type        | State    | Default | Description                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------|-------------|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  object_id | INTEGER     | NOT NULL | Ø       | Object id                                                                                                                                                                                                                                                      |
| guid                                                                                        | VARCHAR(36) | NOT NULL | Ø       | Object GUID                                                                                                                                                                                                                                                    |
| name                                                                                        | VARCHAR(63) | NOT NULL | Ø       | Object name                                                                                                                                                                                                                                                    |
| status                                                                                      | INTEGER     | NOT NULL | Ø       | Object status(Unknown, Normal, Warning, Minor ...)                                                                                                                                                                                                             |
| is_deleted                                                                                  | INTEGER     | NOT NULL | Ø       | Flag that defines if this object is scheduled for deletion                                                                                                                                                                                                     |
| is_system                                                                                   | INTEGER     | NOT NULL | Ø       | Flag that defines if this object is the system object(DashboardRoot, ServiceRoot...)                                                                                                                                                                           |
| last_modified                                                                               | INTEGER     | NOT NULL | Ø       | Timestamp when this object was last modified                                                                                                                                                                                                                   |
| inherit_access_rights                                                                       | INTEGER     | NOT NULL | Ø       | Defines if current object inherits access rights form parent (0 or 1)                                                                                                                                                                                          |
| status_calc_alg                                                                             | INTEGER     | NOT NULL | Ø       | Status calculation algorithms: <ul style="list-style-type: none"> <li>• 0 - SA_CALCULATE_DEFAULT</li> <li>• 1 - SA_CALCULATE_MOST_CRITICAL</li> <li>• 2 - SA_CALCULATE_SINGLE_THRESHOLD</li> <li>• 3 - SA_CALCULATE_MULTIPLE_THRESHOLDS</li> </ul>             |
| status_prop_alg                                                                             | INTEGER     | NOT NULL | Ø       | Status propagation algorithms <ul style="list-style-type: none"> <li>• 0 - SA_PROPAGATE_DEFAULT</li> <li>• 1 - SA_PROPAGATE_UNCHANGED</li> <li>• 2 - SA_PROPAGATE_FIXED</li> <li>• 3 - SA_PROPAGATE_RELATIVE</li> <li>• 4 - SA_PROPAGATE_TRANSLATED</li> </ul> |

| Name                    | Type        | State    | Default | Description                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|-------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status_fixed_val        | INTEGER     | NOT NULL | Ø       | Fixed value for status if SA_PROPAGATE_FIXED propagation algorithms is used. Status options: <ul style="list-style-type: none"> <li>• 0 - STATUS_NORMAL</li> <li>• 1 - STATUS_WARNING</li> <li>• 2 - STATUS_MINOR</li> <li>• 3 - STATUS_MAJOR</li> <li>• 4 - STATUS_CRITICAL</li> <li>• 5 - STATUS_UNKNOWN</li> <li>• 6 - STATUS_UNMANAGED</li> <li>• 7 - STATUS_DISABLED</li> <li>• 8 - STATUS_TESTING</li> </ul> |
| status_shift            | INTEGER     | NOT NULL | Ø       | Number of positions status is shifted (status+status_shift)                                                                                                                                                                                                                                                                                                                                                        |
| status_translation      | VARCHAR(8)  | NOT NULL | Ø       | HEX string containing 4 bytes. Each byte represents a status mapping in status propagation configuration. Status byte order: <ul style="list-style-type: none"> <li>• 1 warning</li> <li>• 2 medium</li> <li>• 3 major</li> <li>• 4 critical</li> </ul>                                                                                                                                                            |
| status_single_threshold | INTEGER     | NOT NULL | Ø       | "Single threshold" value in status colculation                                                                                                                                                                                                                                                                                                                                                                     |
| status_thresholds       | VARCHAR(8)  | NOT NULL | Ø       | HEX string containing 4 bytes. Each byte represents threshold value for "Multiple thresholds" status calculation configuration. Status byte order: <ul style="list-style-type: none"> <li>• 1 warning</li> <li>• 2 medium</li> <li>• 3 major</li> <li>• 4 critical</li> </ul>                                                                                                                                      |
| comments                | TEXT        | NULL     | Ø       | Comments                                                                                                                                                                                                                                                                                                                                                                                                           |
| location_type           | INTEGER     | NOT NULL | Ø       | Lactation type(Undefined, Manual, Automatic)                                                                                                                                                                                                                                                                                                                                                                       |
| latitude                | VARCHAR(20) | NULL     | Ø       | Latitude value                                                                                                                                                                                                                                                                                                                                                                                                     |

| Name                | Type         | State    | Default | Description                                                                                   |
|---------------------|--------------|----------|---------|-----------------------------------------------------------------------------------------------|
| longitude           | VARCHAR(20)  | NULL     | Ø       | Longitude value                                                                               |
| location_accuracy   | INTEGER      | NOT NULL | Ø       | Received location accuracy                                                                    |
| location_timestamp  | INTEGER      | NOT NULL | Ø       | Last received location time                                                                   |
| map_image           | VARCHAR(36)  | NOT NULL | Ø       | Image GUID form <a href="#">IMAGES</a> , that will be used to display object on network maps. |
| drilldown_object_id | INTEGER      | NOT NULL | Ø       | Drill down object id from <a href="#">NETWORK_MAPS</a> or <a href="#">DASHBOARDS</a>          |
| country             | VARCHAR(63)  | NULL     | Ø       | Object location country                                                                       |
| city                | VARCHAR(63)  | NULL     | Ø       | Object location city                                                                          |
| street_address      | VARCHAR(255) | NULL     | Ø       | Object location address                                                                       |
| postcode            | VARCHAR(31)  | NULL     | Ø       | Object location postcode                                                                      |
| maint_event_id      | BIGINT       | NOT NULL | Ø       | Event id of maintenance entered event if currently in maintenance mode                        |
| state_before_maint  | INTEGER      | NOT NULL | Ø       | State before maintenance                                                                      |
| flags               | INTEGER      | NOT NULL | Ø       | Object flags.<br><br>See <a href="#">Constants for object flags</a> for full list.            |

| Name            | Type         | State    | Default | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|--------------|----------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| state           | INTEGER      | NOT NULL | Ø       | <p>Object state.</p> <p>Data Collection Object (any object that supports data collection) status flags:</p> <ul style="list-style-type: none"> <li>• 0x00000001 - DCSF_UNREACHABLE</li> <li>• 0x00000002 - DCSF_NETWORK_PATH_PROBLEM</li> </ul> <p>Node state flags:</p> <ul style="list-style-type: none"> <li>• 0x00010000 - NSF_AGENT_UNREACHABLE</li> <li>• 0x00020000 - NSF_SNMP_UNREACHABLE</li> <li>• 0x00040000 - NSF_CPSNMP_UNREACHABLE</li> <li>• 0x00080000 - NSF_CACHE_MODE_NOT_SUPPORTED</li> <li>• 0x00100000 - NSF_SNMP_TRAP_FLOOD</li> <li>• 0x00200000 - NSF_ICMP_UNREACHABLE</li> <li>• 0x00400000 - NSF_SSH_UNREACHABLE</li> </ul> <p>Cluster state flags:</p> <ul style="list-style-type: none"> <li>• 0x00010000 - CLSF_DOWN</li> </ul> <p>Sensor state flags:</p> <ul style="list-style-type: none"> <li>• 0x00010000 - SSF_PROVISIONED</li> <li>• 0x00020000 - SSF_REGISTERED</li> <li>• 0x00040000 - SSF_ACTIVE</li> <li>• 0x00080000 - SSF_CONF_UPDATE_PENDING</li> </ul> |
| creation_time   | INTEGER      | NOT NULL | Ø       | Object creation time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| maint_initiator | INTEGER      | NOT NULL | Ø       | Maintenance initiator user id from <a href="#">USERS</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| alias           | VARCHAR(255) | NULL     | Ø       | Object alias                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| name_on_map     | VARCHAR(63)  | NULL     | Ø       | Object name on network map.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| category        | INTEGER      | NOT NULL | Ø       | Object category id from <a href="#">OBJECT_CATEGORIES</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Name            | Type        | State    | Default | Description                                     |
|-----------------|-------------|----------|---------|-------------------------------------------------|
| region          | VARCHAR(63) | NULL     | Ø       | Address region                                  |
| district        | VARCHAR(63) | NOT NULL | Ø       | Address district                                |
| comments_source | TEXT        | NULL     | Ø       | Source text of comments with unexpanded macros. |
| asset_id        | INTEGER     | NOT NULL | Ø       | Linked asset_id                                 |

### *Indexes*

| Name                   | Type   | Fields    |
|------------------------|--------|-----------|
| object_properties_pkey | UNIQUE | object_id |

### *Constants for object flags*

| Component | Name                      | Value      | Description                                 |
|-----------|---------------------------|------------|---------------------------------------------|
| Node      | NF_REMOTE_AGENT           | 0x00010000 |                                             |
| Node      | NF_DISABLE_DISCOVERY_POLL | 0x00020000 |                                             |
| Node      | NF_DISABLE_TOPOLOGY_POLL  | 0x00040000 |                                             |
| Node      | NF_DISABLE_SNMP           | 0x00080000 |                                             |
| Node      | NF_DISABLE_NXCP           | 0x00100000 |                                             |
| Node      | NF_DISABLE_ICMP           | 0x00200000 |                                             |
| Node      | NF_FORCE_ENCRYPTION       | 0x00400000 |                                             |
| Node      | NF_DISABLE_ROUTE_POLL     | 0x00800000 |                                             |
| Node      | NF_AGENT_OVER_TUNNEL_ONLY | 0x01000000 |                                             |
| Node      | NF_SNMP_SETTINGS_LOCKED   | 0x02000000 |                                             |
| Interface | IF_SYNTHETIC_MASK         | 0x01       |                                             |
| Interface | IF_PHYSICAL_PORT          | 0x02       |                                             |
| Interface | IF_EXCLUDE_FROM_TOPOLOGY  | 0x04       |                                             |
| Interface | IF_LOOPBACK               | 0x08       |                                             |
| Interface | IF_CREATED_MANUALLY       | 0x10       |                                             |
| Interface | IF_PEER_REFLECTION        | 0x20       | Topology information obtained by reflection |

| Component   | Name                       | Value      | Description                                  |
|-------------|----------------------------|------------|----------------------------------------------|
| Interface   | IF_EXPECTED_STATE_MASK     | 0x30000000 | 2-bit field holding expected interface state |
| Template    | TF_AUTO_APPLY              | 0x00000001 |                                              |
| Template    | TF_AUTO_REMOVE             | 0x00000002 |                                              |
| Chassis     | CHF_BIND_UNDER_CONTROLLER  | 0x00000001 |                                              |
| Container   | CF_AUTO_BIND               | 0x00000001 |                                              |
| Container   | CF_AUTO_UNBIND             | 0x00000002 |                                              |
| Network Map | MF_SHOW_STATUS_ICON        | 0x00000001 |                                              |
| Network Map | MF_SHOW_STATUS_FRAME       | 0x00000002 |                                              |
| Network Map | MF_SHOW_STATUS_BKGND       | 0x00000004 |                                              |
| Network Map | MF_SHOW_END_NODES          | 0x00000008 |                                              |
| Network Map | MF_CALCULATE_STATUS        | 0x00000010 |                                              |
| Network Map | MF_FILTER_OBJECTS          | 0x00000020 |                                              |
| Network Map | MF_SHOW_LINK_DIRECTION     | 0x00000040 |                                              |
| Network Map | MF_USE_L1_TOPOLOGY         | 0x00000080 |                                              |
| Network Map | MF_CENTER_BKGND_IMAGE      | 0x00000100 |                                              |
| Network Map | MF_TRANSLUCENT_LABEL_BKGND | 0x00000200 |                                              |

## OBJECT\_QUERIES

Saved object queries

### Columns

| Name                                                                                   | Type         | State    | Default | Description                      |
|----------------------------------------------------------------------------------------|--------------|----------|---------|----------------------------------|
|  id | INTEGER      | NOT NULL | Ø       | Unique id of saved object query. |
| guid                                                                                   | VARCHAR(36)  | NOT NULL | Ø       | GUID of saved object query.      |
| name                                                                                   | VARCHAR(36)  | NOT NULL | Ø       | Name                             |
| description                                                                            | VARCHAR(255) | NULL     | Ø       | Description                      |
| script                                                                                 | TEXT         | NULL     | Ø       | Object query filtering script.   |

### Indexes

| Name                | Type   | Fields |
|---------------------|--------|--------|
| object_queries_pkey | UNIQUE | id     |

## OBJECT\_TOOLS\_ACL

Access list for object tools

### Columns

| Name                                                                                      | Type    | State    | Default | Description                               |
|-------------------------------------------------------------------------------------------|---------|----------|---------|-------------------------------------------|
|  tool_id | INTEGER | NOT NULL | Ø       | Tool id from <a href="#">OBJECT_TOOLS</a> |
|  user_id | INTEGER | NOT NULL | Ø       | User id form <a href="#">USERS</a>        |

### Indexes

| Name                  | Type   | Fields          |
|-----------------------|--------|-----------------|
| object_tools_acl_pkey | UNIQUE | tool_id,user_id |

## OBJECT\_TOOLS\_TABLE\_COLUMNS

Configuration of columns for SNMP\_TABLE and AGENT\_TABLE type of object tools

### Columns

| Name                                                                                           | Type         | State    | Default | Description                               |
|------------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------------|
|  tool_id    | INTEGER      | NOT NULL | Ø       | Tool id from <a href="#">OBJECT_TOOLS</a> |
|  col_number | INTEGER      | NOT NULL | Ø       | Column number                             |
| col_name                                                                                       | VARCHAR(255) | NULL     | Ø       | Column name                               |
| col_oid                                                                                        | VARCHAR(255) | NULL     | Ø       | Column oid                                |

|            |         |      |   |                                                                                                                                                                                                                                           |
|------------|---------|------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| col_format | INTEGER | NULL | Ø | Column format: <ul style="list-style-type: none"> <li>• 0 - FORMAT_STRING</li> <li>• 1 - FORMAT_INTEGER</li> <li>• 2 - FORMAT_FLOAT</li> <li>• 3 - FORMAT_IP_ADDR</li> <li>• 4 - FORMAT_MAC_ADDR</li> <li>• 5 - FORMAT_IFINDEX</li> </ul> |
| col_substr | INTEGER | NULL | Ø | Number of subsrging generated by regexp defined in <a href="#">OBJECT_TOOLS</a> for this object tool.                                                                                                                                     |

### Indexes

| Name                            | Type   | Fields             |
|---------------------------------|--------|--------------------|
| object_tools_table_columns_pkey | UNIQUE | tool_id,col_number |

## OBJECT\_TOOLS

Object tools

### Columns

| Name                                                                                        | Type         | State    | Default | Description                   |
|---------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------|
|  tool_id | INTEGER      | NOT NULL | Ø       | Object tool unique identifier |
| guid                                                                                        | VARCHAR(36)  | NOT NULL | Ø       | Object tool GUID              |
| tool_name                                                                                   | VARCHAR(255) | NULL     | Ø       | Object tool name              |

|                    |              |          |   |                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|--------------|----------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tool_type          | INTEGER      | NOT NULL | Ø | Object tool type: <ul style="list-style-type: none"> <li>• 0 - TYPE_INTERNAL</li> <li>• 1 - TYPE_ACTION</li> <li>• 2 - TYPE_TABLE_SNMP</li> <li>• 3 - TYPE_TABLE_AGENT</li> <li>• 4 - TYPE_URL</li> <li>• 5 - TYPE_LOCAL_COMMAND</li> <li>• 6 - TYPE_SERVER_COMMAND</li> <li>• 7 - TYPE_FILE_DOWNLOAD</li> <li>• 8 - TYPE_SERVER_SCRIPT</li> </ul> |
| tool_data          | TEXT         | NULL     | Ø | Tool data (file name for file download, or command name for internal command...)                                                                                                                                                                                                                                                                   |
| description        | VARCHAR(255) | NULL     | Ø | Object tool description                                                                                                                                                                                                                                                                                                                            |
| flags              | INTEGER      | NOT NULL | Ø | Object tool flags: <ul style="list-style-type: none"> <li>• 0x00000001 - ASK_CONFIRMATION</li> <li>• 0x00000002 - GENERATES_OUTPUT</li> <li>• 0x00000004 - DISABLED</li> <li>• 0x00000008 - SHOW_IN_COMMANDS</li> <li>• 0x00000010 - SNMP_INDEXED_BY_VALUE</li> <li>• 0x00000020 - RUN_IN_CONTAINER_CONTEXT</li> </ul>                             |
| tool_filter        | TEXT         | NULL     | Ø | XML configuration for filtering objects object tool to be shown on                                                                                                                                                                                                                                                                                 |
| confirmation_text  | VARCHAR(255) | NULL     | Ø | Confirmation text                                                                                                                                                                                                                                                                                                                                  |
| command_name       | VARCHAR(255) | NULL     | Ø | Command name (with path)                                                                                                                                                                                                                                                                                                                           |
| command_short_name | VARCHAR(31)  | NULL     | Ø | Command short name                                                                                                                                                                                                                                                                                                                                 |
| icon               | TEXT         | NULL     | Ø | Command icon                                                                                                                                                                                                                                                                                                                                       |
| remote_port        | INTEGER      | NOT NULL | Ø | Remote port for tool execution                                                                                                                                                                                                                                                                                                                     |

## Indexes

| Name              | Type   | Fields  |
|-------------------|--------|---------|
| object_tools_pkey | UNIQUE | tool_id |

## OBJECT\_URLS

URLs that can be configured on [External Resources](#) property page of object and are shown on object overview page.

### Columns

| Name                                                                                        | Type          | State    | Default | Description                                        |
|---------------------------------------------------------------------------------------------|---------------|----------|---------|----------------------------------------------------|
|  object_id | INTEGER       | NOT NULL | Ø       | Object is from <a href="#">OBJECT_PROPERTIES</a> . |
|  url_id    | INTEGER       | NOT NULL | Ø       | URL id. Unique among URLs of one object            |
| url                                                                                         | VARCHAR(2000) | NULL     | Ø       | URL                                                |
| description                                                                                 | VARCHAR(2000) | NULL     | Ø       | URL description                                    |

### Indexes

| Name             | Type   | Fields           |
|------------------|--------|------------------|
| object_urls_pkey | UNIQUE | object_id,url_id |

## ORGANIZATIONS

Reserved for future use.

### Columns

| Name                                                                                   | Type         | State    | Default | Description |
|----------------------------------------------------------------------------------------|--------------|----------|---------|-------------|
|  id | INTEGER      | NOT NULL | Ø       |             |
| parent_id                                                                              | INTEGER      | NOT NULL | Ø       |             |
| org_type                                                                               | INTEGER      | NOT NULL | Ø       |             |
| name                                                                                   | VARCHAR(63)  | NOT NULL | Ø       |             |
| description                                                                            | VARCHAR(255) | NULL     | Ø       |             |
| manager                                                                                | INTEGER      | NOT NULL | Ø       |             |

### Indexes

| Name               | Type   | Fields |
|--------------------|--------|--------|
| organizations_pkey | UNIQUE | id     |

## OSPF\_AREAS

OSPF areas

### Columns

| Name                                                                                      | Type        | State    | Default | Description                                         |
|-------------------------------------------------------------------------------------------|-------------|----------|---------|-----------------------------------------------------|
|  node_id | INTEGER     | NOT NULL | Ø       | Node id form form <a href="#">OBJECT_PROPERTIES</a> |
|  area_id | VARCHAR(63) | NOT NULL | Ø       | Area id IP address                                  |

### Indexes

| Name            | Type   | Fields          |
|-----------------|--------|-----------------|
| ospf_areas_pkey | UNIQUE | node_id,area_id |

## OSPF\_NEIGHBORS

OSPF neighbors

### Columns

| Name                                                                                           | Type        | State    | Default | Description                                           |
|------------------------------------------------------------------------------------------------|-------------|----------|---------|-------------------------------------------------------|
|  node_id    | INTEGER     | NOT NULL | Ø       | Node id form <a href="#">OBJECT_PROPERTIES</a>        |
|  router_id  | VARCHAR(15) | NOT NULL | Ø       | Router id IP address                                  |
| area_id                                                                                        | VARCHAR(15) | NULL     | Ø       | Area id IP address                                    |
|  ip_address | VARCHAR(48) | NOT NULL | Ø       | IP address                                            |
| remote_node_id                                                                                 | INTEGER     | NOT NULL | Ø       | Remote node id form <a href="#">OBJECT_PROPERTIES</a> |
|  if_index   | INTEGER     | NOT NULL | Ø       | Interface index                                       |
| is_virtual                                                                                     | CHAR(1)     | NOT NULL | Ø       | '1' if virtual and '0' if not                         |

|                |         |          |   |                                                                                                                                                                                                                                                                        |
|----------------|---------|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| neighbor_state | INTEGER | NOT NULL | Ø | Neighbor state: <ul style="list-style-type: none"> <li>• 0 - UNKNOWN</li> <li>• 1 - DOWN</li> <li>• 2 - ATTEMPT</li> <li>• 3 - INIT</li> <li>• 4 - TWO_WAY</li> <li>• 5 - EXCHANGE_START</li> <li>• 6 - EXCHANGE</li> <li>• 7 - LOADING</li> <li>• 8 - FULL</li> </ul> |
|----------------|---------|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Indexes

| Name                | Type   | Fields                                |
|---------------------|--------|---------------------------------------|
| ospf_neighbors_pkey | UNIQUE | node_id,router_id,if_index,ip_address |

## PERSISTENT\_STORAGE

Persistent storage table accessible from EPP and any script

### Columns

| Name                                                                                          | Type          | State    | Default | Description       |
|-----------------------------------------------------------------------------------------------|---------------|----------|---------|-------------------|
|  entry_key | VARCHAR(255)  | NOT NULL | Ø       | Unique string key |
| value                                                                                         | VARCHAR(2000) | NULL     | Ø       | Value             |

### Indexes

| Name                    | Type   | Fields    |
|-------------------------|--------|-----------|
| persistent_storage_pkey | UNIQUE | entry_key |

# PERSONS

Reserved for future use.

## Columns

| Name                                                                                 | Type         | State    | Default | Description |
|--------------------------------------------------------------------------------------|--------------|----------|---------|-------------|
|  id | INTEGER      | NOT NULL | Ø       |             |
| org_id                                                                               | INTEGER      | NOT NULL | Ø       |             |
| first_name                                                                           | VARCHAR(63)  | NULL     | Ø       |             |
| last_name                                                                            | VARCHAR(63)  | NULL     | Ø       |             |
| title                                                                                | VARCHAR(255) | NULL     | Ø       |             |
| status                                                                               | INTEGER      | NOT NULL | Ø       |             |

## Indexes

| Name         | Type   | Fields |
|--------------|--------|--------|
| persons_pkey | UNIQUE | id     |

# PHYSICAL\_LINKS

Physical links

## Columns

| Name                                                                                   | Type         | State    | Default | Description                                                                                                           |
|----------------------------------------------------------------------------------------|--------------|----------|---------|-----------------------------------------------------------------------------------------------------------------------|
|  id | INTEGER      | NOT NULL | Ø       | Unique physical link id                                                                                               |
| description                                                                            | VARCHAR(255) | NULL     | Ø       | Physical link description                                                                                             |
| left_object_id                                                                         | INTEGER      | NOT NULL | Ø       | Rack or interface id form <a href="#">OBJECT_PROPERTIES</a>                                                           |
| left_patch_annel_id                                                                    | INTEGER      | NOT NULL | Ø       | Patch panel id form <a href="#">RACKS_PASSIVE_ELEMENTS</a>                                                            |
| left_port_number                                                                       | INTEGER      | NOT NULL | Ø       | Port number                                                                                                           |
| left_front                                                                             | CHAR(1)      | NOT NULL | Ø       | Flag that states if connection is form the front or from the back. "1" for the front and "0" for the back connection. |

|                      |         |          |   |                                                                                                                       |
|----------------------|---------|----------|---|-----------------------------------------------------------------------------------------------------------------------|
| right_object_id      | INTEGER | NOT NULL | Ø | Rack or interface id form <a href="#">OBJECT_PROPERTIES</a>                                                           |
| right_patch_annel_id | INTEGER | NOT NULL | Ø | Patch panel id form <a href="#">RACKS_PASSIVE_ELEMENTS</a>                                                            |
| right_port_number    | INTEGER | NOT NULL | Ø | Port number                                                                                                           |
| right_front          | CHAR(1) | NOT NULL | Ø | Flag that states if connection is form the front or from the back. "1" for the front and "0" for the back connection. |

### Indexes

| Name                | Type   | Fields |
|---------------------|--------|--------|
| physical_links_pkey | UNIQUE | id     |

## POLICY\_ACTION\_LIST

Event processing policy actions

### Columns

| Name                                                                                        | Type         | State    | Default | Description                                                       |
|---------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------------------------------------|
|  rule_id   | INTEGER      | NOT NULL | Ø       | Event processing policy rule id from <a href="#">EVENT_POLICY</a> |
|  action_id | INTEGER      | NOT NULL | Ø       | Action id from <a href="#">ACTIONS</a>                            |
| timer_key                                                                                   | VARCHAR(127) | NULL     | Ø       | Timer key                                                         |
| blocking_timer_key                                                                          | VARCHAR(127) | NULL     | Ø       | Blocking timer key                                                |
| timer_delay                                                                                 | VARCHAR(127) | NULL     | Ø       | Text that will be converted to delay timer                        |
| snooze_time                                                                                 | VARCHAR(127) | NULL     | Ø       | Text that will be converted to snooze timer                       |

### Indexes

| Name                    | Type   | Fields            |
|-------------------------|--------|-------------------|
| policy_action_list_pkey | UNIQUE | rule_id,action_id |

## POLICY\_EVENT\_LIST

Event processing policy events

### Columns

| Name                                                                                         | Type    | State    | Default | Description                               |
|----------------------------------------------------------------------------------------------|---------|----------|---------|-------------------------------------------|
|  rule_id    | INTEGER | NOT NULL | Ø       | Rule id from <a href="#">EVENT_POLICY</a> |
|  event_code | INTEGER | NOT NULL | Ø       | Event id form <a href="#">EVENT_CFG</a>   |

### Indexes

| Name                   | Type   | Fields             |
|------------------------|--------|--------------------|
| policy_event_list_pkey | UNIQUE | rule_id,event_code |

## POLICY\_PSTORAGE\_ACTIONS

Table that links epp with persistent storage

### Columns

| Name                                                                                      | Type          | State    | Default | Description                                                                    |
|-------------------------------------------------------------------------------------------|---------------|----------|---------|--------------------------------------------------------------------------------|
|  rule_id | INTEGER       | NOT NULL | Ø       | Foreign key from <a href="#">EVENT_POLICY</a> table                            |
|  ps_key  | VARCHAR(255)  | NOT NULL | Ø       | Persistent storage key                                                         |
| value                                                                                     | VARCHAR(2000) | NULL     | Ø       | Value that should be set for persistent storage entry                          |
|  action  | CAHR(1)       | NOT NULL | Ø       | Action that should be done on persistent storage entry 1 for set, 2 for delete |

### Indexes

| Name                         | Type   | Fields                |
|------------------------------|--------|-----------------------|
| policy_pstorage_actions_pkey | UNIQUE | rule_id,ps_key,action |

## POLICY\_SOURCE\_LIST

Event processing policy source objects

### Columns

| Name | Type | State | Default | Description |
|------|------|-------|---------|-------------|
|------|------|-------|---------|-------------|

|                                                                                             |         |          |   |                                                  |
|---------------------------------------------------------------------------------------------|---------|----------|---|--------------------------------------------------|
|  rule_id   | INTEGER | NOT NULL | Ø | Rule id from <a href="#">EVENT_POLICY</a>        |
|  object_id | INTEGER | NOT NULL | Ø | Object id from <a href="#">OBJECT_PROPERTIES</a> |
|  exclusion | CHAR(1) | NOT NULL | Ø | 1 if current entry is an exclusion entry         |

### Indexes

| Name                    | Type   | Fields                      |
|-------------------------|--------|-----------------------------|
| policy_source_list_pkey | UNIQUE | rule_id,object_id,exclusion |

## POLICY\_TIMER\_CANCELATION\_LIST

List of cancelation action for EPP action delay timers

### Columns

| Name                                                                                        | Type         | State    | Default | Description                                                             |
|---------------------------------------------------------------------------------------------|--------------|----------|---------|-------------------------------------------------------------------------|
|  rule_id   | INTEGER      | NOT NULL | Ø       | Rule id from <a href="#">EVENT_POLICY</a>                               |
|  timer_key | VARCHAR(127) | NOT NULL | Ø       | Timer key from <a href="#">SCHEDULED_TASKS</a> <a href="#">task_key</a> |

### Indexes

| Name                                | Type   | Fields            |
|-------------------------------------|--------|-------------------|
| policy_timer_cancellation_list_pkey | UNIQUE | rule_id,timer_key |

## POLLABLE\_OBJECTS

This table contains all objects that have polls.

### Columns

| Name                                                                                   | Type    | State    | Default | Description                                    |
|----------------------------------------------------------------------------------------|---------|----------|---------|------------------------------------------------|
|  id | INTEGER | NOT NULL | Ø       | Rack id from <a href="#">OBJECT_PROPERTIES</a> |
| config_poll_timestamp                                                                  | INTEGER | NOT NULL | Ø       | Configuration poll UNIX timestamp              |
| instance_poll_timestamp                                                                | INTEGER | NOT NULL | Ø       | Configuration poll UNIX timestamp              |

### *Indexes*

| Name                  | Type   | Fields |
|-----------------------|--------|--------|
| pollable_objects_pkey | UNIQUE | id     |

## PORT\_LAYOUTS

List of possible port layout options

### *Columns*

| Name                                                                                         | Type         | State    | Default | Description |
|----------------------------------------------------------------------------------------------|--------------|----------|---------|-------------|
|  device_oid | VARCHAR(255) | NOT NULL | ∅       | Device OID  |

|                  |               |          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------|---------------|----------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| numbering_scheme | CHAR(1)       | NOT NULL | ∅ | <p>Numbering scheme</p> <ul style="list-style-type: none"> <li>• 0 - port layout not known to driver</li> <li>• 1 - custom layout, driver defines location of each port</li> <li>• 2 - left-to-right, then up-down</li> </ul> <div> 1 2 3 4<br/>5 6 7 8 </div> <ul style="list-style-type: none"> <li>• 3 - left-to-right, then down-up</li> </ul> <div> 5 6 7 8<br/>1 2 3 4 </div> <ul style="list-style-type: none"> <li>• 4 - up-down, then left-right</li> </ul> <div> 1 3 5 7<br/>2 4 6 8 </div> <ul style="list-style-type: none"> <li>• 5 - down-up, then left-right</li> </ul> <div> 2 4 6 8<br/>1 3 5 7 </div> |
| row_count        | CHAR(1)       | NULL     | ∅ | Number of rows                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| layout_data      | VARCHAR(4000) | NULL     | ∅ | Custom layout data. Reserved for future use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### Indexes

| Name              | Type   | Fields     |
|-------------------|--------|------------|
| port_layouts_pkey | UNIQUE | device_oid |

# RACKS\_PASSIVE\_ELEMENTS

Rack passive elements

## Columns

| Name                                                                                 | Type         | State    | Default | Description                                                                                                                                |
|--------------------------------------------------------------------------------------|--------------|----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------|
|  id | INTEGER      | NOT NULL | Ø       | Passive element unique id                                                                                                                  |
| rack_id                                                                              | INTEGER      | NOT NULL | Ø       | Rack id form <a href="#">RACKS</a>                                                                                                         |
| name                                                                                 | VARCHAR(255) | NULL     | Ø       | Passive element name                                                                                                                       |
| type                                                                                 | INTEGER      | NOT NULL | Ø       | Passive element type: <ul style="list-style-type: none"><li>• PATCH_PANEL = 0</li><li>• FILLER_PANEL = 1</li><li>• ORGANISER = 2</li></ul> |
| position                                                                             | INTEGER      | NOT NULL | Ø       | Passive element position                                                                                                                   |
| orientation                                                                          | INTEGER      | NOT NULL | Ø       | Passive element orientation: <ul style="list-style-type: none"><li>• FILL = 0</li><li>• FRONT = 1</li><li>• REAR = 2</li></ul>             |
| port_count                                                                           | INTEGER      | NOT NULL | Ø       | Passive element port count for patch panel                                                                                                 |
| height                                                                               | INTEGER      | NOT NULL | Ø       | Element height                                                                                                                             |
| image_front                                                                          | VARCHAR(36)  | NULL     | Ø       | Front image UUID from <a href="#">IMAGES</a>                                                                                               |
| image_rear                                                                           | VARCHAR(36)  | NULL     | Ø       | Rear image UUID from <a href="#">IMAGES</a>                                                                                                |

## Indexes

| Name                      | Type   | Fields |
|---------------------------|--------|--------|
| rack_passive_element_pkey | UNIQUE | id     |

# RACKS

Racks

## Columns

| Name                                                                                 | Type    | State    | Default | Description                                                           |
|--------------------------------------------------------------------------------------|---------|----------|---------|-----------------------------------------------------------------------|
|  id | INTEGER | NOT NULL | Ø       | Rack id from <a href="#">OBJECT_PROPERTIES</a>                        |
| height                                                                               | INTEGER | NOT NULL | Ø       | Rack height in units                                                  |
| top_bottom_num                                                                       | CHAR(1) | NOT NULL | Ø       | If rack numbering starts from the top or form the buttom (true/false) |

## Indexes

| Name       | Type   | Fields |
|------------|--------|--------|
| racks_pkey | UNIQUE | id     |

# RAW\_DCI\_VALUES

Last collected DCI values

## Columns

| Name                                                                                       | Type         | State    | Default | Description                                                            |
|--------------------------------------------------------------------------------------------|--------------|----------|---------|------------------------------------------------------------------------|
|  item_id | INTEGER      | NOT NULL | Ø       | DCI item id form <a href="#">ITEMS</a>                                 |
| raw_value                                                                                  | VARCHAR(255) | NULL     | Ø       | Raw DCI value                                                          |
| transformed_value                                                                          | VARCHAR(255) | NULL     | Ø       | Transformed DCI value                                                  |
| last_poll_time                                                                             | INTEGER      | NOT NULL | Ø       | Last poll time (as UNIX timestamp)                                     |
| cache_timestamp                                                                            | INTEGER      | NOT NULL | Ø       | Timestamp of the oldest value in cash for this DCI (as UNIX timestamp) |

## Indexes

| Name                | Type   | Fields  |
|---------------------|--------|---------|
| raw_dci_values_pkey | UNIQUE | item_id |

# RESPONSIBLE\_USERS

Object responsible users.

## Columns

| Name                                                                                        | Type        | State    | Default | Description                                                        |
|---------------------------------------------------------------------------------------------|-------------|----------|---------|--------------------------------------------------------------------|
|  object_id | INTEGER     | NOT NULL | ∅       | ID of the object. Reference to <a href="#">OBJECT_PROPERTIES</a> . |
|  user_id   | INTEGER     | NOT NULL | ∅       | User id. Reference to <a href="#">USERS</a>                        |
| tag                                                                                         | VARCHAR(31) | NOT NULL | ∅       | User escalation tag                                                |

## Indexes

| Name                   | Type   | Fields            |
|------------------------|--------|-------------------|
| responsible_users_pkey | UNIQUE | object_id,user_id |

# SCHEDULED\_TASKS

Scheduled task information

## Columns

| Name                                                                                  | Type    | State    | Default | Description        |
|---------------------------------------------------------------------------------------|---------|----------|---------|--------------------|
|  id | INTEGER | NOT NULL | ∅       | Unique identifier. |

|                     |               |          |   |                                                                                                                                                                                                                                                                                                               |
|---------------------|---------------|----------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| taskid              | VARCHAR(255)  | NULL     | Ø | Task type. Known types: <ul style="list-style-type: none"> <li>• Execute.Action</li> <li>• Execute.Script</li> <li>• Maintenance.Enter</li> <li>• Maintenance.Leave</li> <li>• Policy.Deploy</li> <li>• Policy.Uninstall</li> <li>• Alarms.SendSummaryEmail</li> <li>• AgentTunnels.ProcessUnbound</li> </ul> |
| schedule            | VARCHAR(127)  | NULL     | Ø | Cron execution schedule - will not be set for one time tasks                                                                                                                                                                                                                                                  |
| params              | VARCHAR(1023) | NULL     | Ø | Scheduled task parameters (script name in case if script execution scheduled, ...)                                                                                                                                                                                                                            |
| execution_time      | INTEGER       | NOT NULL | Ø | The time when action should be executed - will be set only for one time task                                                                                                                                                                                                                                  |
| last_execution_time | INTEGER       | NOT NULL | Ø | Timestamp of last execution time                                                                                                                                                                                                                                                                              |
| flags               | INTEGER       | NOT NULL | Ø | Flags: <ul style="list-style-type: none"> <li>• 1 - DISABLED</li> <li>• 2 - EXECUTED</li> <li>• 4 - RUNNING</li> <li>• 8 - SYSTEM</li> </ul>                                                                                                                                                                  |
| owner               | INTEGER       | NOT NULL | Ø | Scheduled task owner from <a href="#">USERS</a>                                                                                                                                                                                                                                                               |
| object_id           | INTEGER       | NOT NULL | Ø | Scheduled task object from <a href="#">OBJECT_PROPERTIES</a>                                                                                                                                                                                                                                                  |
| comments            | VARCHAR(255)  | NULL     | Ø | Scheduled task comment. Free format text.                                                                                                                                                                                                                                                                     |
| task_key            | VARCHAR(255)  | NULL     | Ø | Scheduled task text key                                                                                                                                                                                                                                                                                       |

### Indexes

| Name                 | Type   | Fields |
|----------------------|--------|--------|
| scheduled_tasks_pkey | UNIQUE | id     |

# SCRIPT\_LIBRARY

Script library

## Columns

| Name                                                                                        | Type         | State    | Default | Description              |
|---------------------------------------------------------------------------------------------|--------------|----------|---------|--------------------------|
| guid                                                                                        | VARCHAR(36)  | NOT NULL | Ø       | Script GUID              |
|  script_id | INTEGER      | NOT NULL | Ø       | Script unique identifier |
| script_name                                                                                 | VARCHAR(255) | NOT NULL | Ø       | Script name              |
| script_code                                                                                 | TEXT         | NULL     | Ø       | NXSL script              |

## Indexes

| Name                | Type   | Fields    |
|---------------------|--------|-----------|
| script_library_pkey | UNIQUE | script_id |

# SENSORS

Sensors specific information

## Columns

| Name                                                                                   | Type        | State    | Default | Description                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------|-------------|----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  id | INTEGER     | NOT NULL | Ø       | ID of the object. Reference to <a href="#">OBJECT_PROPERTIES</a> .                                                                                                                          |
| proxy_node                                                                             | INTEGER     | NOT NULL | Ø       | Sensor proxy node <a href="#">NODES</a> .                                                                                                                                                   |
| mac_address                                                                            | VARCHAR(16) | NULL     | Ø       | MAC address                                                                                                                                                                                 |
| device_class                                                                           | INTEGER     | NOT NULL | Ø       | Sensor device class: <ul style="list-style-type: none"><li>• 0 - SENSOR_CLASS_UNKNOWN</li><li>• 1 - SENSOR_UPS</li><li>• 2 - SENSOR_WATER_METER</li><li>• 3 - SENSOR_ELECTR_METER</li></ul> |

|                        |               |          |   |                                                                                                                                                                |
|------------------------|---------------|----------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| vendor                 | VARCHAR(128)  | NULL     | Ø | Vendor                                                                                                                                                         |
| communication_protocol | INTEGER       | NOT NULL | Ø | Communication protocol type: <ul style="list-style-type: none"> <li>• 0 - SENSOR_PROTO_UNKNOWN</li> <li>• 1 - COMM_LORAWAN</li> <li>• 2 - COMM_DLMS</li> </ul> |
| xml_config             | VARCHAR(4000) | NULL     | Ø | Sensor XML configuration. Contain protocol specific configuration                                                                                              |
| xml_reg_config         | VARCHAR(4000) | NULL     | Ø | Sensor XML configuration. Contain protocol connection information                                                                                              |
| serial_number          | VARCHAR(256)  | NULL     | Ø | Device serial number                                                                                                                                           |
| device_address         | VARCHAR(256)  | NULL     | Ø | Device address                                                                                                                                                 |
| meta_type              | VARCHAR(256)  | NULL     | Ø | Device meta type                                                                                                                                               |
| description            | VARCHAR(512)  | NULL     | Ø | Device description                                                                                                                                             |
| last_connection_time   | INTEGER       | NOT NULL | Ø | Last connection type (as UINIX timestamp)                                                                                                                      |
| frame_count            | INTEGER       | NOT NULL | Ø | Frame count (zero when no info)                                                                                                                                |
| signal_strenght        | INTEGER       | NOT NULL | Ø | Signal streight (1 when no information)                                                                                                                        |
| signal_noise           | INTEGER       | NOT NULL | Ø | Signal noise (*10 from origin number)                                                                                                                          |
| frequency              | INTEGER       | NOT NULL | Ø | Signal frequencty (*10 from origin number)                                                                                                                     |

### Indexes

| Name         | Type   | Fields |
|--------------|--------|--------|
| sensors_pkey | UNIQUE | id     |

## SERVER\_ACTION\_EXECUTION\_LOG

Contains log of all executed server actions.

### Columns

| Name                                                                                   | Type    | State    | Default | Description                              |
|----------------------------------------------------------------------------------------|---------|----------|---------|------------------------------------------|
|  id | BIGINT  | NOT NULL | Ø       | Unique identifier.                       |
| action_timestamp                                                                       | INTEGER | NOT NULL | Ø       | UNIX timestamp when action was executed. |

|              |               |          |   |                                                                                              |
|--------------|---------------|----------|---|----------------------------------------------------------------------------------------------|
| action_id    | INTEGER       | NOT NULL | Ø | Action id form <a href="#">ACTIONS</a> .                                                     |
| action_name  | VARCHAR(63)   | NULL     | Ø | Action name form <a href="#">ACTIONS</a> .                                                   |
| channel_name | VARCHAR(63)   | NULL     | Ø | Channel name form <a href="#">NOTIFICATION_CHANNELS</a> .                                    |
| recipient    | VARCHAR(2000) | NULL     | Ø | Recipient list.                                                                              |
| subject      | VARCHAR(2000) | NULL     | Ø | Message subject.                                                                             |
| action_data  | VARCHAR(2000) | NULL     | Ø | Action data.                                                                                 |
| event_id     | BIGINT        | NOT NULL | Ø | ID of event that triggered this action execution form <a href="#">EVENT_LOG</a> .            |
| event_code   | INTEGER       | NULL     | Ø | Code of event template that triggered this action execution form <a href="#">EVENT_CFG</a> . |
| success      | CHAR(1)       | NULL     | Ø | "1" if message sent successfully and "0" if not.                                             |

### Indexes

| Name                             | Type   | Fields              |
|----------------------------------|--------|---------------------|
| server_action_execution_log_pkey | UNIQUE | id,action_timestamp |
| idx_srv_action_log_timestamp     | NORMAL | action_timestamp    |

## SHARED\_SECRET

Agent shared secrets stored

### Columns

| Name                                                                                   | Type        | State    | Default | Description                           |
|----------------------------------------------------------------------------------------|-------------|----------|---------|---------------------------------------|
|  id | INTEGER     | NOT NULL | Ø       | Unique agent shared secret identifier |
| secret                                                                                 | VARCHAR(88) | NULL     | Ø       | Agent secret                          |
| zone                                                                                   | INTEGER     | NOT NULL | Ø       | Zone UIN form <a href="#">ZONES</a>   |

### Indexes

| Name                | Type   | Fields  |
|---------------------|--------|---------|
| shared_secrets_pkey | UNIQUE | id,zone |

# SLM\_AGREEMENTS

SLA - agreements. Reserved for future use.

## Columns

| Name                                                                                           | Type         | State    | Default | Description         |
|------------------------------------------------------------------------------------------------|--------------|----------|---------|---------------------|
|  agreement_id | INTEGER      | NOT NULL | Ø       | Unique agreement id |
| service_id                                                                                     | INTEGER      | NOT NULL | Ø       | Service id          |
| org_id                                                                                         | INTEGER      | NOT NULL | Ø       | Origin id           |
| uptime                                                                                         | VARCHAR(63)  | NOT NULL | Ø       | Required uptime     |
| period                                                                                         | INTEGER      | NOT NULL | Ø       | Period              |
| start_date                                                                                     | INTEGER      | NOT NULL | Ø       | Start date          |
| notes                                                                                          | VARCHAR(255) | NULL     | Ø       | Notes               |

## Indexes

| Name                | Type   | Fields       |
|---------------------|--------|--------------|
| slm_agreements_pkey | UNIQUE | agreement_id |

# SNMP\_COMMUNITIES

List of possible community strings

## Columns

| Name                                                                                   | Type         | State    | Default | Description                        |
|----------------------------------------------------------------------------------------|--------------|----------|---------|------------------------------------|
|  id | INTEGER      | NOT NULL | Ø       | Unique community id                |
| community                                                                              | VARCHAR(255) | NULL     | Ø       | SNMP community                     |
| zone                                                                                   | INTEGER      | NOT NULL | Ø       | Zone id form <a href="#">ZONES</a> |

## Indexes

| Name | Type | Fields |
|------|------|--------|
|------|------|--------|

|                       |        |         |
|-----------------------|--------|---------|
| snmp_communities_pkey | UNIQUE | id,zone |
|-----------------------|--------|---------|

## SNMP\_TRAP\_CFG

SNMP trap configuration

### Columns

| Name                                                                                      | Type         | State    | Default | Description                                                                              |
|-------------------------------------------------------------------------------------------|--------------|----------|---------|------------------------------------------------------------------------------------------|
| guid                                                                                      | VARCHAR(36)  | NOT NULL | Ø       | SNMP trap GUID                                                                           |
|  trap_id | INTEGER      | NOT NULL | Ø       | SNMP trap configuration id                                                               |
| snmp_oid                                                                                  | VARCHAR(255) | NULL     | Ø       | SNMP trap oid                                                                            |
| event_code                                                                                | INTEGER      | NOT NULL | Ø       | Event code form <a href="#">EVENT_CFG</a> . Will be generated in case if trap will come. |
| user_tag                                                                                  | VARCHAR(63)  | NULL     | Ø       | User tag                                                                                 |
| description                                                                               | VARCHAR(255) | NULL     | Ø       | Description                                                                              |
| transformation_script                                                                     | TEXT         | NULL     | Ø       | NXSL transformation script                                                               |

### Indexes

| Name               | Type   | Fields  |
|--------------------|--------|---------|
| snmp_trap_cfg_pkey | UNIQUE | trap_id |

## SNMP\_TRAP\_LOG

Extended SNMP trap log

### Columns

| Name                                                                                        | Type        | State    | Default | Description                                      |
|---------------------------------------------------------------------------------------------|-------------|----------|---------|--------------------------------------------------|
|  trap_id | BIGINT      | NOT NULL | Ø       | Unique trap id                                   |
| trap_timestamp                                                                              | INTEGER     | NOT NULL | Ø       | Trap timestamp (UNIX timestamp)                  |
| ip_addr                                                                                     | VARCHAR(48) | NOT NULL | Ø       | Trap source IP address                           |
| object_id                                                                                   | INTEGER     | NOT NULL | Ø       | Trap source object id from <a href="#">NODES</a> |

|              |              |          |   |                                                              |
|--------------|--------------|----------|---|--------------------------------------------------------------|
| trap_oid     | VARCHAR(255) | NOT NULL | Ø | Trap oid                                                     |
| trap_varlist | TEXT         | NULL     | Ø | Trap variable list                                           |
| zone_uin     | INTEGER      | NULL     | Ø | Zone unique identification number from <a href="#">ZONES</a> |

### Indexes

| Name                  | Type   | Fields         |
|-----------------------|--------|----------------|
| idx_snmp_trap_log_oid | NORMAL | object_id      |
| idx_snmp_trap_log_tt  | NORMAL | trap_timestamp |
| snmp_trap_log_pkey    | UNIQUE | trap_id        |

## SNMP\_TRAP\_PMAP

SNMP trap parameters mapping

### Columns

| Name                                                                                        | Type         | State    | Default | Description                                                                                            |
|---------------------------------------------------------------------------------------------|--------------|----------|---------|--------------------------------------------------------------------------------------------------------|
|  trap_id   | INTEGER      | NOT NULL | Ø       | Trap id from <a href="#">SNMP_TRAP_CFG</a>                                                             |
|  parameter | INTEGER      | NOT NULL | Ø       | Parameter sequence number                                                                              |
| flags                                                                                       | INTEGER      | NOT NULL | Ø       | Flags: <ul style="list-style-type: none"> <li>• 0 - BY_OBJECT_ID</li> <li>• 1 - BY_POSITION</li> </ul> |
| snmp_oid                                                                                    | VARCHAR(255) | NULL     | Ø       | SNMP trap oid                                                                                          |
| description                                                                                 | VARCHAR(255) | NULL     | Ø       | Description                                                                                            |

### Indexes

| Name                | Type   | Fields            |
|---------------------|--------|-------------------|
| snmp_trap_pmap_pkey | UNIQUE | trap_id,parameter |

# SOFTWARE\_INVENTORY

Node software inventory

## Columns

| Name                                                                                      | Type         | State    | Default | Description                                            |
|-------------------------------------------------------------------------------------------|--------------|----------|---------|--------------------------------------------------------|
|  node_id | INTEGER      | NOT NULL | Ø       | ID of the object. Reference to <a href="#">NODES</a> . |
| name                                                                                      | VARCHAR(255) | NOT NULL | Ø       | Software name                                          |
| version                                                                                   | VARCHAR(63)  | NOT NULL | Ø       | Software version                                       |
| vendor                                                                                    | VARCHAR(63)  | NULL     | Ø       | Software version                                       |
| install_date                                                                              | INTEGER      | NOT NULL | Ø       | Software installation date (UNIX timestamp)            |
| url                                                                                       | VARCHAR(255) | NULL     | Ø       | Installation URL                                       |
| description                                                                               | VARCHAR(255) | NULL     | Ø       | Software description                                   |

## Indexes

| Name                    | Type   | Fields               |
|-------------------------|--------|----------------------|
| software_inventory_pkey | UNIQUE | node_id,version,name |

# SSH\_CREDENTIALS

Table stores SSH credentials used to discover ssh connections.

## Columns

| Name                                                                                         | Type        | State    | Default | Description                              |
|----------------------------------------------------------------------------------------------|-------------|----------|---------|------------------------------------------|
|  zone_uin | INTEGER     | NOT NULL | Ø       | Zone UIN form <a href="#">ZONES</a>      |
|  id       | INTEGER     | NOT NULL | Ø       | Credential identifier                    |
| login                                                                                        | VARCHAR(63) | NULL     | Ø       | SSH login                                |
| password                                                                                     | VARCHAR(63) | NULL     | Ø       | SSH password                             |
| key_id                                                                                       | INTEGER     | NULL     | Ø       | SSH key id from <a href="#">SSH_KEYS</a> |

### Indexes

| Name                 | Type   | Fields      |
|----------------------|--------|-------------|
| ssh_credentials_pkey | UNIQUE | zone_uin,id |

## SSH\_KEYS

Table stores SSH keys configuration

### Columns

| Name                                                                                 | Type          | State    | Default | Description            |
|--------------------------------------------------------------------------------------|---------------|----------|---------|------------------------|
|  id | INTEGER       | NOT NULL | ∅       | Unique key identifier. |
| name                                                                                 | VARCHAR(255)  | NOT NULL | ∅       | Key name               |
| public_key                                                                           | VARCHAR(700)  | NULL     | ∅       | Public key             |
| private_key                                                                          | VARCHAR(1710) | NULL     | ∅       | Private key            |

### Indexes

| Name          | Type   | Fields |
|---------------|--------|--------|
| ssh_keys_pkey | UNIQUE | id     |

## SUBNETS

Subnets

### Columns

| Name                                                                                   | Type        | State    | Default | Description                                                        |
|----------------------------------------------------------------------------------------|-------------|----------|---------|--------------------------------------------------------------------|
|  id | INTEGER     | NOT NULL | ∅       | ID of the object. Reference to <a href="#">OBJECT_PROPERTIES</a> . |
| ip_addr                                                                                | VARCHAR(48) | NOT NULL | ∅       | Subnet IP address                                                  |
| ip_netmask                                                                             | INTEGER     | NOT NULL | ∅       | Subnet network mask                                                |
| zone_guid                                                                              | INTEGER     | NOT NULL | ∅       | Zone unique identification number from <a href="#">ZONES</a>       |

## Indexes

| Name         | Type   | Fields |
|--------------|--------|--------|
| subnets_pkey | UNIQUE | id     |

# SYSLOG

Stored syslog messages

## Columns

| Name                                                                                     | Type         | State    | Default | Description                                                  |
|------------------------------------------------------------------------------------------|--------------|----------|---------|--------------------------------------------------------------|
|  msg_id | BIGINT       | NOT NULL | Ø       | Unique identifier                                            |
| msg_timestamp                                                                            | INTEGER      | NOT NULL | Ø       | Syslog message timestamp (as UNIX timestamp)                 |
| facility                                                                                 | INTEGER      | NOT NULL | Ø       | Facility                                                     |
| severity                                                                                 | INTEGER      | NOT NULL | Ø       | Severity                                                     |
| source_object_id                                                                         | INTEGER      | NOT NULL | Ø       | Source object id from <a href="#">NODES</a>                  |
| hostname                                                                                 | VARCHAR(127) | NULL     | Ø       | Source object host name                                      |
| msg_tag                                                                                  | VARCHAR(32)  | NULL     | Ø       | Syslog message tag                                           |
| msg_text                                                                                 | TEXT         | NULL     | Ø       | Syslog message text                                          |
| zone_uin                                                                                 | INTEGER      | NULL     | Ø       | Zone unique identification number from <a href="#">ZONES</a> |

## Indexes

| Name                     | Type   | Fields           |
|--------------------------|--------|------------------|
| idx_syslog_source        | NORMAL | source_object_id |
| idx_syslog_msg_timestamp | NORMAL | msg_timestamp    |
| syslog_pkey              | UNIQUE | msg_id           |

# TDATA

Contains historical values for table DCIs for the node. The table is populated only if single table performance data is enabled. Not used when timescale is enabled.

### Columns

| Name                                                                                              | Type    | State    | Default | Description                            |
|---------------------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------|
|  item_id         | INTEGER | NOT NULL | Ø       | Item id from <a href="#">DC_TABLES</a> |
|  tdata_timestamp | INTEGER | NOT NULL | Ø       | Unix time stamp for collected value    |
| tdata_value                                                                                       | TEXT    | NULL     | Ø       | Collected value.                       |

### Indexes

| Name      | Type   | Fields                  |
|-----------|--------|-------------------------|
| tdata_key | NORMAL | item_id,tdata_timestamp |

## TDATA\_<NODE\_ID>

Contains historical values for table DCIs for the node. Table name is dynamic, <NODE\_ID> is replaced by actual node id (e.g. "TDATA\_100"). The table is populated only if single table performance data is disabled. Not used when timescale is enabled.

### Columns

| Name                                                                                              | Type    | State    | Default | Description                            |
|---------------------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------|
|  item_id         | INTEGER | NOT NULL | Ø       | Item id from <a href="#">DC_TABLES</a> |
|  tdata_timestamp | INTEGER | NOT NULL | Ø       | Unix time stamp                        |
| tdata_value                                                                                       | TEXT    | NULL     | Ø       | Collected value.                       |

### Indexes

| Name                | Type   | Fields                  |
|---------------------|--------|-------------------------|
| idx_tdata_<NODE_ID> | NORMAL | item_id,tdata_timestamp |

## TDATA\_SC\_180

Contains historical values for table DCIs with retention time (90 -180] days. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                              | Type        | State    | Default | Description                            |
|---------------------------------------------------------------------------------------------------|-------------|----------|---------|----------------------------------------|
|  item_id         | INTEGER     | NOT NULL | Ø       | Item id from <a href="#">DC_TABLES</a> |
|  tdata_timestamp | TIMESTAMPTZ | NOT NULL | Ø       | Unix time stamp for collected value    |
| tdata_value                                                                                       | TEXT        | NULL     | Ø       | Collected value.                       |

### Indexes

| Name             | Type   | Fields                  |
|------------------|--------|-------------------------|
| tdata_sc_180_key | NORMAL | item_id,tdata_timestamp |

## TDATA\_SC\_30

Contains historical values for table DCIs with retention time (7 -30] days. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                              | Type        | State    | Default | Description                            |
|---------------------------------------------------------------------------------------------------|-------------|----------|---------|----------------------------------------|
|  item_id         | INTEGER     | NOT NULL | Ø       | Item id from <a href="#">DC_TABLES</a> |
|  tdata_timestamp | TIMESTAMPTZ | NOT NULL | Ø       | Unix time stamp for collected value    |
| tdata_value                                                                                       | TEXT        | NULL     | Ø       | Collected value.                       |

### Indexes

| Name            | Type   | Fields                  |
|-----------------|--------|-------------------------|
| tdata_sc_30_key | NORMAL | item_id,tdata_timestamp |

## TDATA\_SC\_7

Contains historical values for table DCIs with retention time [1 -7] days. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                        | Type    | State    | Default | Description                            |
|---------------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------|
|  item_id | INTEGER | NOT NULL | Ø       | Item id from <a href="#">DC_TABLES</a> |

| Name                                                                                              | Type        | State    | Default | Description                         |
|---------------------------------------------------------------------------------------------------|-------------|----------|---------|-------------------------------------|
|  tdata_timestamp | TIMESTAMPTZ | NOT NULL | Ø       | Unix time stamp for collected value |
| tdata_value                                                                                       | TEXT        | NULL     | Ø       | Collected value.                    |

### Indexes

| Name           | Type   | Fields                  |
|----------------|--------|-------------------------|
| tdata_sc_7_key | NORMAL | item_id,tdata_timestamp |

## TDATA\_SC\_90

Contains historical values for table DCIs with retention time (30 -90] days. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                              | Type        | State    | Default | Description                            |
|---------------------------------------------------------------------------------------------------|-------------|----------|---------|----------------------------------------|
|  item_id         | INTEGER     | NOT NULL | Ø       | Item id from <a href="#">DC_TABLES</a> |
|  tdata_timestamp | TIMESTAMPTZ | NOT NULL | Ø       | Unix time stamp for collected value    |
| tdata_value                                                                                       | TEXT        | NULL     | Ø       | Collected value.                       |

### Indexes

| Name            | Type   | Fields                  |
|-----------------|--------|-------------------------|
| tdata_sc_90_key | NORMAL | item_id,tdata_timestamp |

## TDATA\_SC\_DEFAULT

Contains historical values for table DCIs with retention time equal to default retention time. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                                | Type        | State    | Default | Description                            |
|-----------------------------------------------------------------------------------------------------|-------------|----------|---------|----------------------------------------|
|  item_id         | INTEGER     | NOT NULL | Ø       | Item id from <a href="#">DC_TABLES</a> |
|  tdata_timestamp | TIMESTAMPTZ | NOT NULL | Ø       | Unix time stamp for collected value    |

| Name        | Type | State | Default | Description      |
|-------------|------|-------|---------|------------------|
| tdata_value | TEXT | NULL  | Ø       | Collected value. |

### Indexes

| Name                 | Type   | Fields                  |
|----------------------|--------|-------------------------|
| tdata_sc_default_key | NORMAL | item_id,tdata_timestamp |

## TDATA\_SC\_OTHER

Contains historical values for table DCIs with retention time more than 180 days. The table is populated only if timescale is enabled.

### Columns

| Name                                                                                              | Type        | State    | Default | Description                            |
|---------------------------------------------------------------------------------------------------|-------------|----------|---------|----------------------------------------|
|  item_id         | INTEGER     | NOT NULL | Ø       | Item id from <a href="#">DC_TABLES</a> |
|  tdata_timestamp | TIMESTAMPTZ | NOT NULL | Ø       | Unix time stamp for collected value    |
| tdata_value                                                                                       | TEXT        | NULL     | Ø       | Collected value.                       |

### Indexes

| Name               | Type   | Fields                  |
|--------------------|--------|-------------------------|
| tdata_sc_other_key | NORMAL | item_id,tdata_timestamp |

## TEMPLATES

Data collection templates

### Columns

| Name                                                                                   | Type    | State    | Default | Description       |
|----------------------------------------------------------------------------------------|---------|----------|---------|-------------------|
|  id | INTEGER | NOT NULL | Ø       | Unique identifier |

### Indexes

| Name           | Type   | Fields |
|----------------|--------|--------|
| templates_pkey | UNIQUE | id     |

## THRESHOLDS

Threshold checking rules

### Columns

| Name                                                                                           | Type         | State    | Default | Description                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------|--------------|----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  threshold_id | INTEGER      | NOT NULL | Ø       | Threshold unique identifier                                                                                                                                                                                                       |
| item_id                                                                                        | INTEGER      | NOT NULL | Ø       | Item id from <a href="#">ITEMS</a>                                                                                                                                                                                                |
| sequence_number                                                                                | INTEGER      | NOT NULL | Ø       | Rule sequence number                                                                                                                                                                                                              |
| fire_value                                                                                     | VARCHAR(255) | NULL     | Ø       | Fire value                                                                                                                                                                                                                        |
| rearm_value                                                                                    | VARCHAR(255) | NULL     | Ø       | Rearm value (not used)                                                                                                                                                                                                            |
| check_function                                                                                 | INTEGER      | NOT NULL | Ø       | Threshold functions: <ul style="list-style-type: none"> <li>• 0 - F_LAST</li> <li>• 1 - F_AVERAGE</li> <li>• 2 - F_DEVIATION</li> <li>• 3 - F_DIFF</li> <li>• 4 - F_ERROR</li> <li>• 5 - F_SUM</li> <li>• 6 - F_SCRIPT</li> </ul> |

|                      |               |          |   |                                                                                                                                                                                                                                                            |
|----------------------|---------------|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| check_operation      | INTEGER       | NOT NULL | Ø | Threshold operations:<br><br><ul style="list-style-type: none"> <li>• 0 - OP_LE</li> <li>• 1 - OP_LE_EQ</li> <li>• 2 - OP_EQ</li> <li>• 3 - OP_GT_EQ</li> <li>• 4 - OP_GT</li> <li>• 5 - OP_NE</li> <li>• 6 - OP_LIKE</li> <li>• 7 - OP_NOTLIKE</li> </ul> |
| sample_count         | INTEGER       | NOT NULL | Ø | Number of samples                                                                                                                                                                                                                                          |
| script               | TEXT          | NULL     | Ø | NXSL comparison script                                                                                                                                                                                                                                     |
| event_code           | INTEGER       | NOT NULL | Ø | Event code to fire in case of threshold violation from <a href="#">EVENT_CFG</a>                                                                                                                                                                           |
| rearm_event_code     | INTEGER       | NOT NULL | Ø | Event code to fire in case of threshold rearm from <a href="#">EVENT_CFG</a>                                                                                                                                                                               |
| repeat_interval      | INTEGER       | NOT NULL | Ø | Event generation repeat interval                                                                                                                                                                                                                           |
| current_state        | INTEGER       | NOT NULL | Ø | Current threshold state (reach or not)                                                                                                                                                                                                                     |
| current_severity     | INTEGER       | NOT NULL | Ø | Current severity                                                                                                                                                                                                                                           |
| match_count          | INTEGER       | NOT NULL | Ø | Threshold match count                                                                                                                                                                                                                                      |
| last_event_timestamp | INTEGER       | NOT NULL | Ø | Last generated event timestamp (as UNIX timestamp)                                                                                                                                                                                                         |
| state_before_maint   | CHAR(1)       | NOT NULL | Ø | Threshold state before maintenance                                                                                                                                                                                                                         |
| last_checked_value   | VARCHAR(255)  | NULL     | Ø | Last value checked against threshold value                                                                                                                                                                                                                 |
| last_event_message   | VARCHAR(2000) | NULL     | Ø | Last generated threshold event message                                                                                                                                                                                                                     |

### Indexes

| Name                    | Type   | Fields          |
|-------------------------|--------|-----------------|
| idx_thresholds_sequence | NORMAL | sequence_number |
| idx_thresholds_item_id  | NORMAL | item_id         |
| thresholds_pkey         | UNIQUE | threshold_id    |

# TRUCTED\_OBJECTS

Trusted objects - used for cross-object access and data collection

## Columns

| Name                                                                                                | Type        | State    | Default | Description                                      |
|-----------------------------------------------------------------------------------------------------|-------------|----------|---------|--------------------------------------------------|
|  object_id         | INTEGER     | NOT NULL | Ø       | Object id from <a href="#">OBJECT_PROPERTIES</a> |
|  trusted_object_id | VARCHAR(63) | NOT NULL | Ø       | Object id from <a href="#">OBJECT_PROPERTIES</a> |

## Indexes

| Name                 | Type   | Fields                      |
|----------------------|--------|-----------------------------|
| trusted_objects_pkey | UNIQUE | object_id,trusted_object_id |

# TWO\_FACTOR\_AUTHENTICATION\_BINDINGS

Two factor authentication method configuration.

## Columns

| Name                                                                                      | Type        | State    | Default | Description                                                        |
|-------------------------------------------------------------------------------------------|-------------|----------|---------|--------------------------------------------------------------------|
|  user_id | INTEGER     | NOT NULL | Ø       | User id form <a href="#">USERS</a>                                 |
| name                                                                                      | VARCAHR(63) | NULL     | Ø       | Driver name form <a href="#">TWO_FACTOR_AUTHENTICATION_METHODS</a> |
| configuration                                                                             | TEXT        | NULL     | Ø       | Configuration                                                      |

## Indexes

| Name                         | Type   | Fields       |
|------------------------------|--------|--------------|
| two_factor_auth_methods_pkey | UNIQUE | user_id,name |

# TWO\_FACTOR\_AUTHENTICATION\_METHODS

Two factor authentication method configuration.

### Columns

| Name                                                                                   | Type         | State    | Default | Description            |
|----------------------------------------------------------------------------------------|--------------|----------|---------|------------------------|
|  name | VARCAHR(63)  | NOT NULL | Ø       | Two factor method name |
| driver                                                                                 | VARCAHR(63)  | NULL     | Ø       | Driver name            |
| description                                                                            | VARCAHR(255) | NULL     | Ø       | Description            |
| configuration                                                                          | TEXT         | NULL     | Ø       | Configuration          |

### Indexes

| Name                         | Type   | Fields |
|------------------------------|--------|--------|
| two_factor_auth_methods_pkey | UNIQUE | name   |

## USER\_AGENT\_NOTIFICATIONS

User agent notifications current and logs

### Columns

| Name                                                                                 | Type          | State    | Default | Description                                                                        |
|--------------------------------------------------------------------------------------|---------------|----------|---------|------------------------------------------------------------------------------------|
|  id | INTEGER       | NOT NULL | Ø       | User agent notification id                                                         |
| message                                                                              | VARCHAR(1023) | NULL     | Ø       | Message                                                                            |
| objects                                                                              | VARCHAR(1023) | NOT NULL | Ø       | Coma separaed object id list from <a href="#">OBJECT_PROPERTIES</a>                |
| start_time                                                                           | INTEGER       | NOT NULL | Ø       | Message display start time as unix timestamp. 0 - in case if one time notification |
| end_time                                                                             | INTEGER       | NOT NULL | Ø       | Message display end time as unix timestamp. 0 - in case if one time notification   |
| recall                                                                               | CHAR(1)       | NOT NULL | Ø       | Flag, that represents if message is recalled                                       |
| on_startup                                                                           | CHAR(1)       | NOT NULL | Ø       | Flag, that represents if message is startup message                                |
| creation_time                                                                        | INTEGER       | NOT NULL | Ø       | Notification creation time as unix timestamp.                                      |
| created_by                                                                           | INTEGER       | NOT NULL | Ø       | Creator id form <a href="#">USERS</a>                                              |

### Indexes

| Name | Type | Fields |
|------|------|--------|
|------|------|--------|

|                               |        |    |
|-------------------------------|--------|----|
| user_agent_notifications_pkey | UNIQUE | id |
|-------------------------------|--------|----|

## USER\_GROUP\_MEMBERS

Users and group relationships

### Columns

| Name                                                                                       | Type    | State    | Default | Description                     |
|--------------------------------------------------------------------------------------------|---------|----------|---------|---------------------------------|
|  group_id | INTEGER | NOT NULL | Ø       | Group id from user_groups table |
|  user_id  | INTEGER | NOT NULL | Ø       | User id from users table        |

### Indexes

| Name                    | Type   | Fields           |
|-------------------------|--------|------------------|
| user_group_members_pkey | UNIQUE | group_id,user_id |

## USER\_GROUPS

System user groups

### Columns

| Name                                                                                   | Type        | State    | Default | Description                      |
|----------------------------------------------------------------------------------------|-------------|----------|---------|----------------------------------|
|  id | INTEGER     | NOT NULL | Ø       | Group id                         |
| guid                                                                                   | VARCHAR(36) | NOT NULL | Ø       | Group GUID                       |
| name                                                                                   | VARCHAR(63) | NOT NULL | Ø       | Group name                       |
| system_access                                                                          | BIGINT      | NOT NULL | Ø       | Bit-mask of system access rights |

|                |              |          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|--------------|----------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| flags          | INTEGER      | NOT NULL | Ø | Flags: <ul style="list-style-type: none"> <li>• 0x0001 - UF_MODIFIED</li> <li>• 0x0002 - UF_DELETED</li> <li>• 0x0004 - UF_DISABLED</li> <li>• 0x0008 - UF_CHANGE_PASSWORD</li> <li>• 0x0010 - UF_CANNOT_CHANGE_PASSWORD</li> <li>• 0x0020 - UF_INTRUDER_LOCKOUT</li> <li>• 0x0040 - UF_PASSWORD_NEVER_EXPIRES</li> <li>• 0x0080 - UF_LDAP_USER</li> <li>• 0x0100 - UF_SYNC_EXCEPTION</li> <li>• 0x0200 - UF_CLOSE_OTHER_SESSIONS</li> </ul> |
| description    | VARCHAR(255) | NULL     | Ø | Description                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ldap_dn        | TEXT         | NULL     | Ø | LDAP dn                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ldap_unique_id | VARCHAR(64)  | NULL     | Ø | LDAP unique id if field set                                                                                                                                                                                                                                                                                                                                                                                                                  |
| created        | INTEGER      | NOT NULL | Ø | Group creation time (UNIX timestamp)                                                                                                                                                                                                                                                                                                                                                                                                         |

### Indexes

| Name             | Type   | Fields |
|------------------|--------|--------|
| user_groups_pkey | UNIQUE | id     |

## USER\_PROFILES

User variables

### Columns

| Name                                                                                         | Type         | State    | Default | Description                        |
|----------------------------------------------------------------------------------------------|--------------|----------|---------|------------------------------------|
|  user_id  | INTEGER      | NOT NULL | Ø       | user id form <a href="#">USERS</a> |
|  var_name | VARCHAR(255) | NOT NULL | Ø       | Variable name                      |
| var_value                                                                                    | TEXT         | NOT NULL | Ø       | Variable value                     |

### Indexes

| Name               | Type   | Fields           |
|--------------------|--------|------------------|
| user_profiles_pkey | UNIQUE | user_id,var_name |

## USERDB\_CUSTOM\_ATTRIBUTES

Custom attributes for user database objects

### Columns

| Name                                                                                        | Type         | State    | Default | Description                          |
|---------------------------------------------------------------------------------------------|--------------|----------|---------|--------------------------------------|
|  object_id | INTEGER      | NOT NULL | Ø       | Object id form <a href="#">USERS</a> |
|  attr_name | VARCHAR(255) | NOT NULL | Ø       | Attribute name                       |
| attr_value                                                                                  | TEXT         | NOT NULL | Ø       | Attribute value                      |

### Indexes

| Name                          | Type   | Fields              |
|-------------------------------|--------|---------------------|
| userdb_custom_attributes_pkey | UNIQUE | object_id,attr_name |

## USERS

System users

### Columns

| Name                                                                                   | Type         | State    | Default | Description                                        |
|----------------------------------------------------------------------------------------|--------------|----------|---------|----------------------------------------------------|
|  id | INTEGER      | NOT NULL | Ø       | User id                                            |
| guid                                                                                   | VARCHAR(36)  | NOT NULL | Ø       | User guid                                          |
| name                                                                                   | VARCHAR(63)  | NOT NULL | Ø       | Login name                                         |
| password                                                                               | VARCHAR(127) | NOT NULL | Ø       | Hashed password                                    |
| system_access                                                                          | BIGINT       | NOT NULL | Ø       | Bit-mask of system access rights                   |
| flags                                                                                  | INTEGER      | NOT NULL | Ø       | Account flags (locked, password never expire etc.) |

|                     |              |          |   |                                                                                                                                                                                                                                      |
|---------------------|--------------|----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| full_name           | VARCHAR(127) | NULL     | Ø | Full name                                                                                                                                                                                                                            |
| description         | VARCHAR(255) | NULL     | Ø | Description                                                                                                                                                                                                                          |
| grace_logins        | INTEGER      | NOT NULL | Ø | Number of grace logins                                                                                                                                                                                                               |
| auth_method         | INTEGER      | NOT NULL | Ø | Authentication method: <ul style="list-style-type: none"> <li>• 0 - AUTH_NETXMS_PASSWORD</li> <li>• 1 - AUTH_RADIUS</li> <li>• 2 - AUTH_CERTIFICATE</li> <li>• 3 - AUTH_CERT_OR_PASSWD</li> <li>• 4 - AUTH_CERT_OR_RADIUS</li> </ul> |
| cert_mapping_method | INTEGER      | NOT NULL | Ø | Certifiacte mapping method: <ul style="list-style-type: none"> <li>• 0 - USER_MAP_CERT_BY_SUBJECT</li> <li>• 1 - USER_MAP_CERT_BY_PUBKEY</li> <li>• 2 - USER_MAP_CERT_BY_CN</li> </ul>                                               |
| cert_mapping_data   | TEXT         | NULL     | Ø | Certificate mapping data                                                                                                                                                                                                             |
| auth_failures       | INTEGER      | NOT NULL | Ø | Number of authentication failures                                                                                                                                                                                                    |
| last_passwd_change  | INTEGER      | NOT NULL | Ø | Date of last password change (UNIX timestamp)                                                                                                                                                                                        |
| min_passwd_length   | INTEGER      | NOT NULL | Ø | Minimal password lenght                                                                                                                                                                                                              |
| disabled_until      | INTEGER      | NOT NULL | Ø | Timesamp till what date user is disabled (UNIX timestamp)                                                                                                                                                                            |
| last_login          | INTEGER      | NOT NULL | Ø | Last login time (UNIX timestamp)                                                                                                                                                                                                     |
| password_history    | TEXT         | NULL     | Ø | Password history                                                                                                                                                                                                                     |
| ldap_dn             | TEXT         | NULL     | Ø | LDAP dn                                                                                                                                                                                                                              |
| ldap_unique_id      | VARCHAR(64)  | NULL     | Ø | LDAP unique id if field set                                                                                                                                                                                                          |
| created             | INTEGER      | NOT NULL | Ø | User creation time (UNIX timestamp)                                                                                                                                                                                                  |
| email               | VARCHAR(127) | NULL     | Ø | E-mail                                                                                                                                                                                                                               |
| phone_number        | VARCHAR(63)  | NULL     | Ø | Phone number                                                                                                                                                                                                                         |

## Indexes

| Name       | Type   | Fields |
|------------|--------|--------|
| users_pkey | UNIQUE | id     |

## USM\_CREDENTIALS

Default SNMP v3 USM credentials

### Columns

| Name                                                                                 | Type         | State    | Default | Description                              |
|--------------------------------------------------------------------------------------|--------------|----------|---------|------------------------------------------|
|  id | INTEGER      | NOT NULL | Ø       | SNMP v3 USM credential unique identifier |
| user_name                                                                            | VARCHAR(255) | NOT NULL | Ø       | SNMP v3 USM username                     |
| auth_method                                                                          | INTEGER      | NOT NULL | Ø       | SNMP v3 USM authentication method        |
| priv_method                                                                          | INTEGER      | NOT NULL | Ø       | SNMP v3 USM encryption method            |
| auth_password                                                                        | VARCHAR(255) | NULL     | Ø       | SNMP v3 USM authentication password      |
| priv_password                                                                        | VARCHAR(255) | NULL     | Ø       | SNMP v3 USM encryption password          |
| zone                                                                                 | INTEGER      | NOT NULL | Ø       | Zone id form <a href="#">ZONES</a>       |
| comments                                                                             | VARCHAR(255) | NULL     | Ø       | Comment to credential entry              |

### Indexes

| Name                 | Type   | Fields  |
|----------------------|--------|---------|
| usm_credentials_pkey | UNIQUE | id,zone |

## VERSIONABLE\_OBJECT

Versioning table for objects

### Columns

| Name                                                                                          | Type    | State    | Default | Description                                                        |
|-----------------------------------------------------------------------------------------------|---------|----------|---------|--------------------------------------------------------------------|
|  object_id | INTEGER | NOT NULL | Ø       | ID of the object. Reference to <a href="#">OBJECT_PROPERTIES</a> . |
| version                                                                                       | INTEGER | NOT NULL | Ø       | Object version                                                     |

### Indexes

| Name                    | Type   | Fields    |
|-------------------------|--------|-----------|
| versionable_object_pkey | UNIQUE | object_id |

## VPN\_CONNECTOR\_NETWORKS

VPN connector networks

### Columns

| Name                                                                                      | Type        | State    | Default | Description                                                                                   |
|-------------------------------------------------------------------------------------------|-------------|----------|---------|-----------------------------------------------------------------------------------------------|
|  vpn_id  | INTEGER     | NOT NULL | Ø       | VPN unique id from <a href="#">OBJECT_PROPERTIES</a>                                          |
| network_type                                                                              | INTEGER     | NOT NULL | Ø       | Network type <ul style="list-style-type: none"><li>• 0 - local</li><li>• 1 - remote</li></ul> |
|  ip_addr | VARCHAR(48) | NOT NULL | Ø       | IP address                                                                                    |
| ip_netmask                                                                                | INTEGER     | NOT NULL | Ø       | Network mask                                                                                  |

### Indexes

| Name                        | Type   | Fields         |
|-----------------------------|--------|----------------|
| vpn_connector_networks_pkey | UNIQUE | vpn_id,ip_addr |

## VPN\_CONNECTORS

VPN connectors

### Columns

| Name                                                                                   | Type    | State    | Default | Description                                        |
|----------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------------------|
|  id | INTEGER | NOT NULL | Ø       | Vpn id form <a href="#">VPN_CONNECTOR_NETWORKS</a> |
| node_id                                                                                | INTEGER | NOT NULL | Ø       | Node id from <a href="#">NODES</a>                 |

|              |         |          |   |                                             |
|--------------|---------|----------|---|---------------------------------------------|
| peer_gateway | INTEGER | NOT NULL | Ø | Peer gateway. Id form <a href="#">NODES</a> |
|--------------|---------|----------|---|---------------------------------------------|

### Indexes

| Name                | Type   | Fields |
|---------------------|--------|--------|
| vpn_connectors_pkey | UNIQUE | id     |

## WEBSVC\_DEFINITIONS

Web service definition table

### Columns

| Name                                                                                 | Type          | State    | Default | Description                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------|---------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  id | INTEGER       | NOT NULL | Ø       | Web service id                                                                                                                                                                                                   |
| guid                                                                                 | VARCHAR(36)   | NOT NULL | Ø       | Web service GUID                                                                                                                                                                                                 |
| name                                                                                 | VARCHAR(63)   | NOT NULL | Ø       | Web service name                                                                                                                                                                                                 |
| url                                                                                  | VARCHAR(4000) | NULL     | Ø       | Web service URL                                                                                                                                                                                                  |
| auth_type                                                                            | INTEGER       | NOT NULL | Ø       | Authentication type: <ul style="list-style-type: none"> <li>• 0 - NONE</li> <li>• 1 - BASIC</li> <li>• 2 - DIGEST</li> <li>• 3 - NTLM</li> <li>• 4 - BEARER</li> <li>• 5 - ANY</li> <li>• 6 - ANYSAFE</li> </ul> |
| login                                                                                | VARCHAR(255)  | NULL     | Ø       | Web service login name                                                                                                                                                                                           |
| password                                                                             | VARCHAR(255)  | NULL     | Ø       | Web service password                                                                                                                                                                                             |
| password                                                                             | VARCHAR(255)  | NULL     | Ø       | Web service password                                                                                                                                                                                             |
| cache_retention_time                                                                 | INTEGER       | NOT NULL | Ø       | Cache retention time                                                                                                                                                                                             |
| request_timeout                                                                      | INTEGER       | NOT NULL | Ø       | Request timeout time                                                                                                                                                                                             |

|                     |               |          |   |                                                                                                                                                                    |
|---------------------|---------------|----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| description         | VARCHAR(2000) | NULL     | Ø | Web service description                                                                                                                                            |
| flags               | INTEGER       | NOT NULL | Ø | Web service bit flags: <ul style="list-style-type: none"> <li>• 1 - Verify certificate</li> <li>• 2 - Verify host</li> </ul>                                       |
| http_request_method | INTEGER       | NOT NULL | Ø | HTTP request method: <ul style="list-style-type: none"> <li>• GET = 0</li> <li>• POST = 1</li> <li>• PUT = 2</li> <li>• DELETE = 3</li> <li>• PATCH = 4</li> </ul> |
| request_data        | INTEGER       | NULL     | Ø | Request data                                                                                                                                                       |

### Indexes

| Name                    | Type   | Fields |
|-------------------------|--------|--------|
| websvc_definitions_pkey | UNIQUE | id     |

## WEBSVC\_HEADERS

Web service header definition table

### Columns

| Name                                                                                          | Type          | State    | Default | Description                                              |
|-----------------------------------------------------------------------------------------------|---------------|----------|---------|----------------------------------------------------------|
|  websvc_id | INTEGER       | NOT NULL | Ø       | Web service id form <a href="#">WEBSVC_DEFINITIONS</a> . |
|  name      | VARCHAR(63)   | NOT NULL | Ø       | Header name                                              |
| value                                                                                         | VARCHAR(2000) | NULL     | Ø       | Header content                                           |

### Indexes

| Name | Type | Fields |
|------|------|--------|
|------|------|--------|

|                     |        |                |
|---------------------|--------|----------------|
| websvc_headers_pkey | UNIQUE | websvc_id,name |
|---------------------|--------|----------------|

## WELL\_KNOWN\_PORTS

List of ports, that will be automatically checked for nodes to collect SNMP, SSH or other data

### Columns

| Name                                                                                 | Type        | State    | Default | Description                                                                       |
|--------------------------------------------------------------------------------------|-------------|----------|---------|-----------------------------------------------------------------------------------|
|  id | INTEGER     | NOT NULL | Ø       | Unique agent shared secret identifier                                             |
| port                                                                                 | INTEGER     | NOT NULL | Ø       | Agent secret                                                                      |
| zone                                                                                 | INTEGER     | NOT NULL | Ø       | Zone UIN form <a href="#">ZONES</a>                                               |
| tag                                                                                  | VARCAHR(15) | NOT NULL | Ø       | Port tag: <ul style="list-style-type: none"> <li>• snmp</li> <li>• ssh</li> </ul> |

### Indexes

| Name                  | Type   | Fields  |
|-----------------------|--------|---------|
| well_known_ports_pkey | UNIQUE | id,zone |

## WIN\_EVENT\_LOG

Windows event log

### Columns

| Name                                                                                   | Type    | State    | Default | Description                                                    |
|----------------------------------------------------------------------------------------|---------|----------|---------|----------------------------------------------------------------|
|  id | BIGINT  | NOT NULL | Ø       | Record unique id.                                              |
| event_timestamp                                                                        | INTEGER | NOT NULL | Ø       | Unix time stamp of event when it came to server.               |
| node_id                                                                                | INTEGER | NOT NULL | Ø       | Source node of the event. Reference to <a href="#">NODES</a> . |
| zone_uin                                                                               | INTEGER | NOT NULL | Ø       | Zone unique identification number from <a href="#">ZONES</a> . |

|                  |               |          |   |                                                               |
|------------------|---------------|----------|---|---------------------------------------------------------------|
| origin_timestamp | INTEGER       | NOT NULL | Ø | Unix time stamp of event when it was created on windows node. |
| log_name         | VARCHAR(63)   | NULL     | Ø | Alarm key.                                                    |
| event_source     | VARCHAR(127)  | NULL     | Ø | Source of the windows event.                                  |
| event_severity   | INTEGER       | NOT NULL | Ø | Windows event severity.                                       |
| event_code       | INTEGER       | NOT NULL | Ø | Windows event code.                                           |
| message          | VARCHAR(2000) | NULL     | Ø | Windows event message.                                        |
| raw_data         | TEXT          | NULL     | Ø | Raw Windows event data.                                       |

### Indexes

| Name                        | Type   | Fields          |
|-----------------------------|--------|-----------------|
| win_event_log_pkey          | UNIQUE | id              |
| idx_win_event_log_timestamp | NORMAL | event_timestamp |
| idx_win_event_log_node      | NORMAL | node_id         |

## ZONE\_PROXIES

Zones proxy list

### Columns

| Name                                                                                          | Type    | State    | Default | Description                              |
|-----------------------------------------------------------------------------------------------|---------|----------|---------|------------------------------------------|
|  object_id | INTEGER | NOT NULL | Ø       | Zone id from <a href="#">ZONES</a>       |
| proxy_node                                                                                    | INTEGER | NOT NULL | Ø       | Proxy node id from <a href="#">NODES</a> |

### Indexes

| Name              | Type   | Fields               |
|-------------------|--------|----------------------|
| zone_proxies_pkey | UNIQUE | object_id,proxy_node |

# ZONES

Zones

## Columns

| Name                                                                                 | Type    | State    | Default | Description                                    |
|--------------------------------------------------------------------------------------|---------|----------|---------|------------------------------------------------|
|  id | INTEGER | NOT NULL | Ø       | Zone id from <a href="#">OBJECT_PROPERTIES</a> |
| zone_guid                                                                            | INTEGER | NOT NULL | Ø       | Zone GUID                                      |

## Indexes

| Name       | Type   | Fields |
|------------|--------|--------|
| zones_pkey | UNIQUE | id     |