NetXMS Data Dictionary

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Introduction

TBD

Tables

ACCESS_POINTS

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

Table 1. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		ID of the object. Reference to OBJECT_PROPERTIES.
node_id	INTEGER	NOT NULL		ID of the Node object representing this access point. Reference to `id` field in NODES.
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

Table 2. 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.

Table 3. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		ID of the object. Reference to OBJECT_PROPERTIES.
user_id	INTEGER	NOT NULL		ID of the user or group. Reference to USERS or USER_GROUPS.
access_rights	INTEGER	NOT NULL		Bitmask of the permissions. Possible flags: • 0x00000001 – Read • 0x00000002 – Modify • 0x00000004 – Create child objects • 0x00000008 – Delete • 0x00000010 – View alarms • 0x00000020 – Access control • 0x00000040 – Update alarms • 0x00000080 – Send events • 0x00000100 – Control • 0x00000200 – Terminate alarms • 0x00000400 – Push data • 0x00000800 – Create helpdesk tickets • 0x00001000 – Download files • 0x00002000 – Upload files • 0x00004000 – Manage files (renamed, delete, etc.) • 0x00008000 – Control maintenance mode

Table 4. Indexes

Name	Type	Fields
acl_pkey	UNIQUE	object_id,user_id

ACTIONS

Server actions used in event processing.

Table 5. Columns

Name	Type	State	Default	Description
action_id	INTEGER	NOT NULL		Action ID.

action_name	VARCHAR(63)	NOT NULL		Name of the action.
action_type	INTEGER	NOT NULL		Type of the action: • 0 – Execute command on the management server • 1 – Execute command on the remote agent • 2 – Send email • 3 – Send SMS • 4 – Forward event to another server • 5 – Run NXSL script • 6 – Send XMPP (Jabber) message
is_disabled	INTEGER	NOT NULL		State of the action: • 0 – Enabled • 1 – Disabled
rcpt_addr	VARCHAR(255)	NULL		Recepient address for SMS and email actions.
email_subject	VARCHAR(255)	NULL		Subject line for email action.
action_data	TEXT	NULL		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		Action GUID
channel_name	VARCHAR(36)	NULL		Notification channel name

Table 6. Indexes

Name	Type	Fields
actions_pkey	UNIQUE	action_id

ADDRESS_LISTS

List of network ranges and subnets used by network discovery.

Table 7. Columns

Name	Type	State	Default	Description

list_type	INTEGER	NOT NULL		Purpose of the record: • 1 - Active discovery target • 2 - Address discovery filter
community_id	INTEGER	NOT NULL		Reserved for future use
addr_type	INTEGER	NOT NULL		Type of the record: • 0 - Subnet, field `addr2` indicates netmask in CIDR format • 1 - Range, field `addr2` indicates end of the range
addr1	VARCHAR(48)	NOT NULL		Network address or start of the range address.
addr2	VARCHAR(48)	NOT NULL		Network mark in CIDR format or end of the range address.
zone_uin	INTEGER	NOT NULL		Zone unique identification number from ZONES
proxy_id	INTEGER	NOT NULL		Node id from NODES
comments	VARCHAR(255)	NULL		Comment to credential entry

Table 8. 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.

Table 9. Columns

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

Table 10. 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.

Table 11. Columns

Name	Type	State	Default	Description
pkg_id	INTEGER	NOT NULL		Unique identifier
pkg_name	VARCHAR(63)	NULL		Name of the package (e.g. "nxagent"), as loaded from NPI file.
version	VARCHAR(31)	NULL		Version of the package, as loaded from NPI file.
platform	VARCHAR(63)	NULL		Supported plarform of the package, as loaded from NPI file.
pkg_file	VARCHAR(255)	NULL		Name of the binary file in server storage.
description	VARCHAR(255)	NULL		Description of the package, as loaded from NPI file.
agent_pkg	VARCHAR(15)	NULL		Package type: • executable • msi • msp • msu • deb • /usr/bin/rpm • tgz • agent-installer
command	VARCHAR(255)	NULL		Command to install package

Table 12. Indexes

Name	Type	Fields
agent_pkg_pkey	UNIQUE	pkg_id

ALARM_CATEGORIES

Alarm categories

Table 13. Columns

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

Table 14. 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.

Table 15. Columns

Name	Type	State	Default	Description
category_id	INTEGER	NOT NULL		Category ID
user_id	INTEGER	NOT NULL		User or group ID. Reference to USERS or USER_GROUPS.

Table 16. Indexes

Name	Type	Fields
alarm_category_acl_pkey	UNIQUE	category_id,user_id

ALARM_CATEGORY_MAP

Relation between alarms and alarm categories.

Table 17. Columns

Name	Type	State	Default	Description
alarm_id	INTEGER	NOT NULL		ID of the alarm. Reference to ALARMS.
category_id	INTEGER	NOT NULL		ID of the alarm category. Reference to ALARM_CATEGORIES.

Table 18. Indexes

Name	Type	Fields
alarm_category_map_pkey	UNIQUE	alarm_id,category_id

ALARM_EVENTS

History of all events which resulted in generating alarm.

Table 19. Columns

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

Table 20. Indexes

Name	Type	Fields
idx_alarm_events_alarm_id	NORMAL	alarm_id
alarm_events_pkey	UNIQUE	alarm_id,event_id

ALARM_NOTES

Alarm comments.

Table 21. Columns

Name	Type	State	Default	Description
note_id	INTEGER	NOT NULL		Unique identifier.
alarm_id	INTEGER	NOT NULL		ID of the alarm. Reference to ALARMS.
change_time	INTEGER	NOT NULL		Unix time stamp of last change.
user_id	INTEGER	NOT NULL		Author of the comment. Reference to USERS.
note_text	TEXT	NULL		Comment body.

Table 22. 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.

Table 23. Columns

Name	Type	State	Default	Description
record_id	BIGINT	NOT NULL		Unique identifier.
alarm_id	INTEGER	NOT NULL		ID of the alarm. Reference to ALARMS.
prev_state	INTEGER	NOT NULL		Previous state: • 0x00 - Outstanding • 0x01 - Acknowledged • 0x02 - Resolved • 0x03 - Terminated • 0x11 - Sticky Acknowledged
new_state	INTEGER	NOT NULL		New state state: • 0x00 - Outstanding • 0x01 - Acknowledged • 0x02 - Resolved • 0x03 - Terminated • 0x11 - Sticky Acknowledged
change_time	INTEGER	NOT NULL		Unix time stamp of change.
prev_state_duration	INTEGER	NOT NULL		Previous state duration in seconds.
change_by	INTEGER	NOT NULL		User id that made state change USERS

Table 24. 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.

Table 25. Columns

Name	Type	State	Default	Description
alarm_id	INTEGER	NOT NULL		Unique identifier.

alarm_state	INTEGER	NOT NULL		State of the alarm: • 0x00 - Outstanding • 0x01 - Acknowledged • 0x02 - Resolved • 0x03 - Terminated • 0x11 - Sticky Acknowledged
hd_state	INTEGER	NOT NULL		State of the related helpdesk ticket (if any): • 0 - Ignored (default when no ticket is created from alarm) • 1 - Open • 2 - Closed
hd_ref	VARCHAR(63)	NULL		Helpdesk ticket id.
creation_time	INTEGER	NOT NULL		Unix time stamp of alarm creation.
last_change_time	INTEGER	NOT NULL		Unix time stamp of last modification.
source_object_id	INTEGER	NOT NULL		Source object of the event which resulted in an alarm. Reference to NODES, CLUSTERS, etc.
source_event_code	INTEGER	NOT NULL		Event code of the event which resulted in an alarm. Reference to EVENT_CFG.
source_event_id	BIGINT	NOT NULL		ID of the event which resulted in an alarm. Reference to EVENT_LOG.
dci_id	INTEGER	NOT NULL		ID of the related data collection item or `0` if event was not generated by threshold violation. Reference to ITEMS.
message	VARCHAR(2000)	NULL		Alarm message.
original_severity	INTEGER	NOT NULL		Alarm severity when alarm was generated.
current_severity	INTEGER	NOT NULL		Current alarm severity. May differ from `current_severity` if alarm was repeated.
repeat_count	INTEGER	NOT NULL		Number of repeated events with the same `alarm_key`.
alarm_key	VARCHAR(255)	NULL		Alarm key.

ack_by	INTEGER	NOT NULL		User, who acknowledged this alarm. Reference to USERS.
resolved_by	INTEGER	NOT NULL		User, who resolved this alarm. Reference to USERS.
term_by	INTEGER	NOT NULL		User, who terminated this alarm. Reference to USERS.
timeout	INTEGER	NOT NULL		Alarm timeout in seconds.
timeout_event	INTEGER	NOT NULL		Code of the event which should be send if `alarm_state` remains in Outstanding state for `timeout` seconds.
ack_timeout	INTEGER	NOT NULL		Timeout for sticky acknowledgement.
alarm_category_ids	VARCHAR(255)	NULL		Comma-separated list of related alarm categories. Reference to ALARM_CATEGORIES.
zone_uin	INTEGER	NOT NULL		Zone unique identification number from ZONES
rule_guid	VARCHAR(36)	NULL		Alarm key.
event_tags	VARCHAR(2000)	NULL		Coma separated event tag list
parent_alarm_id	INTEGER	NOT NULL		ID of the parent alarm ALARMS
rca_script_name	VARCHAR(255)	NULL		Name of the root cause analysis script.
impact	VARCHAR(1000)	NULL		Alarm impact text.
rule_description	VARCHAR(255)	NULL		Description of EEP rule that generated this alarm
last_state_change_time	INTEGER	NOT NULL		Last time alarm changed state

Table 26. 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

Table 27. Columns

Name	Type	State	Default	Description
guid	VARCHAR(36)	NOT NULL		Unique policy identifier
policy_name	VARCHAR(63)	NOT NULL		Policy name
owner_id	INTEGER	NOT NULL		Owning template id from TEMPLATES
policy_type	VARCAHR(31)	NOT NULL		Policy type: • AgentConfig • LogParserConfig
file_content	TEXT	NULL		File content (Agent configuration file content or log parser content...)
version	INTEGER	NOT NULL		Policy version
flags	INTEGER	NOT NULL		Flags: • 1 - EXPAND_MACRO

Table 28. Indexes

Name	Type	Fields
ap_common_pkey	UNIQUE	guid

AUDIT_LOG

Log of all user actions.

Table 29. Columns

Name	Type	State	Default	Description
record_id	INTEGER	NOT NULL		Unique record identifier.
timestamp	INTEGER	NOT NULL		Unix timestamp.
subsystem	VARCHAR(32)	NOT NULL		System component name.
success	INTEGER	NOT NULL		Success indicator.
user_id	INTEGER	NOT NULL		ID of the user performed logged action. Reference to USERS.
workstation	VARCHAR(63)	NOT NULL		IP of the user's workstation.
session_id	INTEGER	NOT NULL		User's session id.
object_id	INTEGER	NOT NULL		Target object id which was involved in the logged action.

message	TEXT	NULL		Audit record text.
old_value	TEXT	NULL		Old value. Object is saved in json format
new_value	TEXT	NULL		New value. Object is saved in json format
value_diff	TEXT	NULL		Diff from old and new value. Object data is represented in json format
value_type	VARCHAR(1)	NOT NULL		Value type for old_value and new_value fields.
hmac	VARCHAR(64)	NOT NULL		HMAC calculated using all audit log fields.

Table 30. Indexes

Name	Type	Fields
audit_log_pkey	UNIQUE	record_id

AUTO_BIND_TARGET

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

Table 31. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		ID of the object. Reference to TEMPLATES ot OBJECT_CONTAINERS.
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: • AAF_AUTO_APPLY_1 - 0x00000001 • AAF_AUTO_REMOVE_1 - 0x00000002 • AAF_AUTO_APPLY_2 - 0x00000004 • AAF_AUTO_REMOVE_2 - 0x00000008

Table 32. Indexes

Name	Type	Fields
auto_bind_target_pkey	UNIQUE	object_id

BUSINESS_SERVICE_CHECKS

Business service checks

Table 33. Columns

Name	Type	State	Default	Description

id	INTEGER	NOT NULL		Unique identifier.
type	INTEGER	NOT NULL		Type: • 1 - threshold • 2 - script
content	TEXT	NULL		NXSL script chack
current_ticket	INTEGER	NOT NULL		Current ticket
service_id	INTEGER	NOT NULL		Service id form BUSINESS_SERVICES.
related_object	INTEGER	NOT NULL		Related object id form OBJECT_PROPERTIES.
related_dci	INTEGER	NOT NULL		Related DCI id form ITEMS.
status_threshold	INTEGER	NOT NULL		Object or DCI status threshold.
description	VARCHAR(1023)	NULL		Description.
current status of the check	INTEGER	NOT NULL		0 if ok, 4 if failed.
failure_reason	VARCHAR(255)	NULL		Failure reason.
prototype_service_id	INTEGER	NOT NULL		Business service id form BUSINESS_SERVICES or business service prototype BUSINESS_SERVICE_PROTOTYPES that auto discovered this check or 0 if created manually.
prototype_check_id	INTEGER	NOT NULL		Business service check prototype id for BUSINESS_SERVICE_CHECKS

Table 34. Indexes

Name	Type	Fields
business_service_checks_pkey	UNIQUE	id

BUSINESS_SERVICES_DOWNTIME

Business services downtime records.

Table 35. Columns

Name	Type	State	Default	Description
record_id	INTEGER	NOT NULL		Unique identifier.

service_id	INTEGER	NOT NULL		Instance source object from BUSINESS_SERVICES
from_timestamp	INTEGER	NOT NULL		UNIX timestamp when downtime started
to_timestamp	INTEGER	NOT NULL		UNIX timestamp when downtime stopped or 0

Table 36. Indexes

Name	Type	Fields
business_service_downtime_pkey	UNIQUE	record_id

BUSINESS_SERVICE_PROTOTYPES

Business services prototype to create other business services form it.

Table 37. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique identifier from OBJECT_PROPERTIES
instance_method	INTEGER	NOT NULL		Instance method: • Agent List - 1 • Agent Table - 2 • Script - 5
instance_source	INTEGER	NOT NULL		Instance source object from OBJECT_PROPERTIES
instance_data	VARCAHR(1023)	NULL		Instance data
instance_filter	TEXT	NULL		Instance NXSL filter
object_status_threshold	INTEGER	NOT NULL		Default object status threshold for auto discovered object checks.
dci_status_threshold	INTEGER	NOT NULL		Default DCI status threshold for auto discovered DCI checks.

Table 38. Indexes

Name	Type	Fields
business_service_prototypes_pkey	UNIQUE	id

BUSINESS_SERVICE_TICKETS

Business service tickets opened on failed checks

Table 39. Columns

Name	Type	State	Default	Description
ticket_id	INTEGER	NOT NULL		Ticker id
service_id	INTEGER	NOT NULL		Service id
check_id	INTEGER	NOT NULL		Cehck id
create_timestamp	INTEGER	NOT NULL		Creation timestamp
close_timestamp	INTEGER	NOT NULL		Clos timestamp
reason	VARCHAR(255)	NULL		Reason
check_description	VARCHAR(255)	NULL		Check description
original_ticket_id	INTEGER	NOT NULL		Original ticket id from BUSINESS_SERVICE_TICKETS
original_service_id	INTEGER	NOT NULL		Original ticket id from BUSINESS_SERVICES

Table 40. Indexes

Name	Type	Fields
business_service_tickets_pkey	UNIQUE	ticket_id

BUSINESS_SERVICES

Business services for defining SLA.

Table 41. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique identifier from OBJECT_PROPERTIES
prototype_id	INTEGER	NOT NULL		Prototype id form BUSINESS_SERVICE_PROTOTYPES or 0
instance	VARCAHR(1023)	NULL		Instance
object_status_threshold	INTEGER	NOT NULL		Default object status threshold for auto discovered object checks.
dci_status_threshold	INTEGER	NOT NULL		Default DCI status threshold for auto discovered DCI checks.

Table 42. Indexes

Name	Type	Fields
business_services_pkey	UNIQUE	id

CERTIFICTE_ACTION_LOG

Certificate activity log

Table 43. 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: • 1 - ISSUE_CERTIFICATE • 2 - REVOKE_CERTIFICATE
user_id	INTEGER	NOT NULL		User id form USERS
node_id	INTEGER	NOT NULL		Node id from NODES
node_guid	VARCHAR(36)	NULL		Node guid
cert_type	INTEGER	NOT NULL		Type of certificate: • 0 - CERT_TYPE_TRUSTED_CA • 1 - CERT_TYPE_USER • 2 - CERT_TYPE_AGENT • 3 - CERT_TYPE_SERVER
subject	VARCHAR(36)	NULL		Subject
serial	VARCHAR(36)	NULL		Serial

Table 44. Indexes

Name	Type	Fields
certificate_action_log_pkey	UNIQUE	record_id
idx_cert_action_log_timestamp	NORMAL	operation_timestamp

CHASSIS

Chassis

Table 45. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Chassis id from OBJECT_PROPERTIES
controller_id	INTEGER	NOT NULL		Id of node object providing management capabilities for this chassis
rack_id	INTEGER	NOT NULL		Related rack object ID
rack_image_front	VARCHAR(36)	NULL		Image to be used in front rack view
rack_position	INTEGER	NOT NULL		Position in rack (in rack units)
rack_height	INTEGER	NOT NULL		Height in rack (in rack units)
rack_orientation	INTEGER	NOT NULL		Rack orientation type: • 0 - FILL • 1 - FRONT • 2 - REAR
rack_image_rear	VARCHAR(36)	NOT NULL		Image GUID to be used in rear rack view

Table 46. Indexes

Name	Type	Fields
chassis_pkey	UNIQUE	id

CLUSTER_MEMBERS

Cluster members

Table 47. Columns

Name	Type	State	Default	Description
cluster_id	INTEGER	NOT NULL		Cluster ID. Reference to CLUSTERS.
node_id	INTEGER	NOT NULL		Node ID. Reference to NODES.

Table 48. 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.

Table 49. Columns

Name	Type	State	Default	Description

cluster_id	INTEGER	NOT NULL		ID of the cluster. Reference to CLUSTERS.
resource_id	INTEGER	NOT NULL		Unique identifier
resource_name	VARCHAR(255)	NULL		Name of the resource.
ip_addr	VARCHAR(48)	NOT NULL		IP address of the resource (VIP).
current_owner	INTEGER	NOT NULL		Node which currently owns the resource. Reference to NODES.

Table 50. Indexes

Name	Type	Fields
cluster_resources_pkey	UNIQUE	cluster_id,resource_id

CLUSTER_SYNC_SUBNETS

Cluster subnets used for interconnect.

Table 51. Columns

Name	Type	State	Default	Description
cluster_id	INTEGER	NOT NULL		Cluster ID. Reference to CLUSTERS.
subnet_addr	VARCHAR(48)	NOT NULL		Network address.
subnet_mask	INTEGER	NOT NULL		Network mask as number of bits (CIDR).

Table 52. Indexes

Name	Type	Fields
cluster_sync_subnets_pkey	UNIQUE	cluster_id,subnet_addr

CLUSTERS

Information specific for Cluster objects.

Table 53. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique identifier.
cluster_type	INTEGER	NOT NULL		Reserved for future use.
zone_guid	INTEGER	NOT NULL		Zone GUID. Reference to ZONES.

Table 54. Indexes

Name	Type	Fields
clusters_pkey	UNIQUE	id

COND_DCI_MAP

Mapping of the conditions to corresponding data collection items.

Table 55. Columns

Name	Type	State	Default	Description
condition_id	INTEGER	NOT NULL		Condition ID. Reference to CONDITIONS.
sequence_number	INTEGER	NOT NULL		Sequence number.
dci_id	INTEGER	NOT NULL		ID of the DCI. Reference to ITEMS.
node_id	INTEGER	NOT NULL		ID of the node. Reference to NODES.
dci_func	INTEGER	NOT NULL		DCI function to use. Known values: • 0 - Last value • 1 - Average value • 2 - Mean deviation • 3 - Difference with previous value • 4 - Data collection error • 5 - Sum of values • 6 - Run NXSL script
num_polls	INTEGER	NOT NULL		Number of values for `dci_func` to process.

Table 56. Indexes

Name	Type	Fields
cond_dci_map_pkey	UNIQUE	condition_id,sequence_number

CONDITIONS

Conditions definition table.

Table 57. 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 EVENT_CFG.
deactivation_event	INTEGER	NOT NULL		Event code of the deactivation event. Reference to EVENT_CFG.
source_object	INTEGER	NOT NULL		Source object for generating events. Reference to NODES or CLUSTERS.

active_status	INTEGER	NOT NULL		Condition active status: • 0 - STATUS_NORMAL • 1 - STATUS_WARNING • 2 - STATUS_MINOR • 3 - STATUS_MAJOR • 4 - STATUS_CRITICAL • 5 - STATUS_UNKNOWN • 6 - STATUS_UNMANAGED • 7 - STATUS_DISABLED • 8 - STATUS_TESTING
inactive_status	INTEGER	NOT NULL		Condition inactive status: • 0 - STATUS_NORMAL • 1 - STATUS_WARNING • 2 - STATUS_MINOR • 3 - STATUS_MAJOR • 4 - STATUS_CRITICAL • 5 - STATUS_UNKNOWN • 6 - STATUS_UNMANAGED • 7 - STATUS_DISABLED • 8 - STATUS_TESTING
script	TEXT	NOT NULL		NXSL script for activating condition.

Table 58. Indexes

Name	Type	Fields
conditions_pkey	UNIQUE	id

CONFIG_CLOB

System configuration table for large data elements

Table 59. Columns

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

Table 60. Indexes

Name	Type	Fields
config_clob_pkey	UNIQUE	var_name

CONFIG_REPOSITORIES

Repository configuration for templates market.

Table 61. Columns

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

Table 62. Indexes

Name	Type	Fields
config_repositories_pkey	UNIQUE	id

CONFIG_VALUES

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

Table 63. Columns

Name	Type	State	Default	Description
var_name	VARCHAR(63)	NOT NULL		Parameter name. Reference to CONFIG.
var_value	VARCHAR(15)	NOT NULL		Parameter value
var_description	VARCHAR(255)	NULL		Parameter description

Table 64. Indexes

Name	Type	Fields
config_values_pkey	UNIQUE	var_name,var_value

CONFIG

Server configuration.

Table 65. Columns

Name	Type	State	Default	Description
var_name	VARCHAR(63)	NOT NULL		Parameter name
var_value	VARCHAR(2000)	NULL		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: • S – String • I – Integer • B – Boolean • C – Choice (Drop-down list displayed in UI) • H - Color (Color picker displayed in UI)
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	□	Configuration parameter's description shown in the UI.

Table 66. Indexes

Name	Type	Fields
config_pkey	UNIQUE	var_name

CONTAINER_MEMBERS

Parent-child relations between containers and objects inside them.

Table 67. Columns

Name	Type	State	Default	Description
□container_id	INTEGER	NOT NULL	□	Container ID. Reference to OBJECT_CONTAINERS.
□object_id	INTEGER	NOT NULL	□	Child object ID. Reference to any object which can be placed into container (NODES, CLUSTERS, OBJECT_CONTAINERS).

Table 68. Indexes

Name	Type	Fields
container_members_pkey	UNIQUE	container_id,object_id

COUNTRY_CODES

List of country codes

Table 69. Columns

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

Table 70. Indexes

Name	Type	Fields
country_codes_pkey	UNIQUE	numeric_code

CURRENCY_CODES

List of currency codes

Table 71. Columns

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

Table 72. Indexes

Name	Type	Fields
currency_codes_pkey	UNIQUE	numeric_code

DASHBOARD_ASSOCIATIONS

Associations between dashboards and other objects

Table 73. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		Object id from OBJECT_PROPERTIES
dashboard_id	INTEGER	NOT NULL		Dashboard id from DASHBOARDS

Table 74. Indexes

Name	Type	Fields
dashboard_associations_pkey	UNIQUE	object_id,dashboard_id

DASHBOARD_ELEMENTS

Widgets and layout configuration of each dashboard.

Table 75. Columns

Name	Type	State	Default	Description
dashboard_id	INTEGER	NOT NULL		ID of the dashboard. Reference to DASHBOARDS.
element_id	INTEGER	NOT NULL		Unique identifier.

element_type	INTEGER	NOT NULL		Type of the element. Known values: • 0 – Label • 1 – Line Chart • 2 – Bar Chart • 3 – Pie Chart • 4 – Tube Chart • 5 – Status Chart • 6 – Status Indicator • 7 – Embeded Dashboard • 8 – Network Map • 9 – Custom • 10 – Geo map • 11 – Alarm Viewer • 12 – Availability Chart • 13 – Dial Chart • 14 – Web Page • 15 – Table Bar Chart • 16 – Table Pie Chart • 17 – Table Tube Chart • 18 – Separator • 19 – Table Last Value • 20 – Status Map • 21 – DCI Summary Table • 22 – Syslog Monitor • 23 – SNMP Trap Monitor • 24 – Event Monitor
element_data	TEXT	NULL		Widget configuration (data sources, etc.). Format is internal to a widget.
layout_data	TEXT	NULL		Widget layout details.

Table 76. Indexes

Name	Type	Fields
dashboard_elements_pkey	UNIQUE	dashboard_id,element_id

DASHBOARDS

List of all dashboards.

Table 77. Columns

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

Table 78. Indexes

Name	Type	Fields
dashboards_pkey	UNIQUE	id

DC_TABLE_COLUMNS

Data collection configuration for table items – column configuration.

Table 79. Columns

Name	Type	State	Default	Description
table_id	INTEGER	NOT NULL		Reference to `item_id` in DC_TABLES.
sequence_number	INTEGER	NOT NULL		Column number used for sorting.
column_name	VARCHAR(63)	NOT NULL		Name of the column as read from the agent.
snmp_oid	VARCHAR(1023)	NULL		SNMP OID (used only if table source is SNMP).

flags	INTEGER	NOT NULL		Bitmark of column flags. Known values: • 0x0000 – Type: Integer • 0x0001 – Type: Unsigned Integer • 0x0002 – Type: Int64 • 0x0003 – Type: Unsigned Int64 • 0x0004 – Type: String • 0x0005 – Type: Float • 0x0010 – Aggregate: Average • 0x0020 – Aggregate: Min • 0x0030 – Aggregate: Max • 0x0100 – This column is instance (key) column • 0x0200 – This column is instance label column
display_name	VARCHAR(255)	NULL		Column name to be shown to user.

Table 80. Indexes

Name	Type	Fields
dc_table_columns_pkey	UNIQUE	table_id,column_name

DC_TABLES

Data collection configuration for table items.

Table 81. 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 NODES or CLUSTERS.
template_id	INTEGER	NOT NULL		ID of the source template. If item was created directly on the node, value will be `0`. Reference to TEMPLATES.
template_item_id	INTEGER	NOT NULL		ID of the DCI in the template. If item was created directly on the node, value will be `0`. Reference to TEMPLATES.
guid	VARCHAR(36)	NOT NULL		Record GUID.

name	VARCHAR(1023)	NULL		Name of the parameter. Depending on the source, it can be agent's parameter, SNMP OID, Script name, etc.
description	VARCHAR(255)	NULL		Human readable description of the item.
flags	INTEGER	NOT NULL		Data collection table flags: • DCF_ALL_THRESHOLDS 0x0002 • DCF_RAW_VALUE_OCTET_STRING 0x0004 • DCF_SHOW_ON_OBJECT_TOOLTIP 0x0008 • DCF_AGGREGATE_FUNCTION_MASK 0x0070 • DCF_AGGREGATE_ON_CLUSTER 0x0080 • DCF_TRANSFORM_AGGREGATED 0x0100 • DCF_CALCULATE_NODE_STATUS 0x0400 • DCF_SHOW_IN_OBJECT_OVERVIEW 0x0800 • DCF_CACHE_MODE_MASK 0x3000 • DCF_AGGREGATE_WITH_ERRORS 0x4000
source	INTEGER	NOT NULL		Source node. If this value is non-zero, server will query data from this node instead of the node specified by `node_id`. Reference to NODES.
snmp_port	INTEGER	NOT NULL		SNMP port.
polling_interval	INTEGER	NOT NULL		Polling interval in seconds.
retention_time	INTEGER	NOT NULL		Retention time in days.
status	INTEGER	NOT NULL		Status of the DCI. Known values: • 0 – Active • 1 – Disabled • 2 – Not Supported

system_tag	VARCHAR(255)	NULL		System tag used by different system modules to save module information
resource_id	INTEGER	NOT NULL		Cluster resource id from CLUSTER_RESOURCES
proxy_node	INTEGER	NOT NULL		ID of the proxy node. Reference to NODES.
perftab_settings	TEXT	NULL		Data collection table XML configuration for Performance tab
transformation_script	TEXT	NULL		NXSL transformation script
comments	TEXT	NULL		Data collection table comment
instance	VARCHAR(255)	NULL		Instance
instd_method	INTEGER	NOT NULL		Method of instance discovery • 0 – IDM_NONE • 1 – IDM_AGENT_LIST • 2 – IDM_AGENT_TABLE • 3 – IDM_SNMP_WALK_VALUES • 4 – IDM_SNMP_WALK_OIDS • 5 – IDM_SCRIPT
instd_data	VARCHAR(255)	NULL		Data for instance discovery (Srcipt name, Agent list...)
instd_filter	TEXT	NULL		NXSL instance discovery filter
instance_retention_time	INTEGER	NOT NULL		Retention time for deleted instances from instance discovery
grace_period_start	INTEGER	NOT NULL		Start for grade period for deleted instance
related_object	INTEGER	NOT NULL		Related object
polling_interval_src	VARCHAR(255)	NOT NULL		Source for polling interval calculation
retention_time_src	VARCHAR(255)	NOT NULL		Source for retention time calculation

polling_schedule_type	CHAR(1)	NOT NULL		Polling schedule type: • DC_POLLING_SCHEDULE_DEFAULT = 0 • DC_POLLING_SCHEDULE_CUSTOM = 1 • DC_POLLING_SCHEDULE_ADVANCED = 2
retention_type	CHAR(1)	NOT NULL		Retention type: • DC_RETENTION_DEFAULT = 0 • DC_RETENTION_CUSTOM = 1 • DC_RETENTION_NONE = 2
snmp_version	INTEGER	NOT NULL		SNMP version
state_flags	INTEGER	NOT NULL		State bit flags: • DCO_STATE_DISABLED_BY_USER 1

Table 82. 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.

Table 83. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		ID of the object from OBJECT_PROPERTIES
geolocation_ctrl_mode	INTEGER	NOT NULL		Control mode for configured geo areas: • GEOLOCATION_NO_CONTROL - 0 • GEOLOCATION_RESTRICTED_AREAS - 1 • GEOLOCATION_ALLOWED_AREAS - 2

geo_areas	VARCHAR(2000)	NULL	□	Coma separated list of geo area ids for this object.
web_service_proxy	INTEGER	NOT NULL	□	web service proxy node form NODES

Table 84. Indexes

Name	Type	Fields
dc_targets_pkey	UNIQUE	id

DCI_ACCESS

Access rights for dci

Table 85. Columns

Name	Type	State	Default	Description
□dci_id	INTEGER	NOT NULL	□	DCI ID. Reference to either ITEMS or DC_TABLES.
□user_id	INTEGER	NOT NULL	□	User id from USERS

Table 86. 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

Table 87. Columns

Name	Type	State	Default	Description
□	INTEGER	NOT NULL	□	Object id. Reference form OBJECT_PROPERTIES.
□dci_id	INTEGER	NOT NULL	□	DCI ID. Reference to either ITEMS or DC_TABLES.
type	CHAR(1)	NOT NULL	□	DCI type. `t` for table DCI and `i` for a regular DCI.

Table 88. Indexes

Name	Type	Fields
dci_delete_list_pkey	UNIQUE	node_id,dci_id

DCI_SCHEDULES

Advanced schedules for DCI.

Table 89. Columns

Name	Type	State	Default	Description
schedule_id	INTEGER	NOT NULL		Unique identifier.
item_id	INTEGER	NOT NULL		DCI ID. Reference to either ITEMS or DC_TABLES.
schedule	VARCHAR(255)	NULL		Cron-like schedule definition.

Table 90. Indexes

Name	Type	Fields
dci_schedules_pkey	UNIQUE	item_id,schedule_id

DCI_SUMMARY_TABLES

Configuration of DCI summary tables.

Table 91. 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: • 0x0001 - MULTI_INSTANCE • 0x0002 - TABLE_DCI_SOURCE
columns	VARCHAR(255)	NULL		Columns configuration.
table_dci_name	TEXT	NULL		Name of the summary table.

Table 92. Indexes

Name	Type	Fields
dci_summary_tables_pkey	UNIQUE	id

DCT_THREASHOLD_INSTANCES

Table stores matched instances by table threashold

Table 93. Columns

Name	Type	State	Default	Description
threshold_id	INTEGER	NOT NULL		Threshold id from DCT_THRESHOLDS
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

Table 94. Indexes

Name	Type	Fields
dct_threashold_instances_pkey	UNIQUE	threshold_id,instance,maint_copy

DCT_COLUMN_NAMES

Data collection configuration for table items - column names.

Table 95. Columns

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

Table 96. Indexes

Name	Type	Fields
dct_column_names_pkey	UNIQUE	column_id

DCT_NODE_MAP

Mapping between nodes and applied templates with table DCI.

Table 97. Columns

Name	Type	State	Default	Description

template_id	INTEGER	NOT NULL		Templade ID. Reference to TEMPLATES.
node_id	INTEGER	NOT NULL		Target node ID. Reference to NODES or CLUSTERS.

Table 98. Indexes

Name	Type	Fields
dct_node_map_pkey	UNIQUE	template_id,node_id

DCT_THRESHOLD_CONDITIONS

Table threshold conditions

Table 99. Columns

Name	Type	State	Default	Description
threshold_id	INTEGER	NOT NULL		Threshold id form DCT_THREASHOLD_INSTANCES
group_id	INTEGER	NOT NULL		Group id
sequence_number	INTEGER	NOT NULL		Sequence id
column_name	VARCHAR(63)	NULL		Column name
check_operation	INTEGER	NOT NULL		Check operation: • 0 - OP_LE • 1 - OP_LE_EQ • 2 - OP_EQ • 3 - OP_GT_EQ • 4 - OP_GT • 5 - OP_NE • 6 - OP_LIKE • 7 - OP_NOTLIKE
check_value	VARCHAR(255)	NULL		Check value

Table 100. Indexes

Name	Type	Fields
dct_threshold_conditions_pkey	UNIQUE	threshold_id,group_id,sequence_number

DCT_THRESHOLDS

Table threshold configuration

Table 101. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique threshold identifier
table_id	INTEGER	NOT NULL		Item id from DC_TABLES
sequence_number	INTEGER	NOT NULL		Threashold proccessing sequence number
activation_event	INTEGER	NOT NULL		Event code of activation event from EVENT_CFG
deactivation_event	INTEGER	NOT NULL		Event code of deactivation event from EVENT_CFG
sample_count	INTEGER	NOT NULL		Required sample count for state change

Table 102. Indexes

Name	Type	Fields
dct_thresholds_pkey	UNIQUE	id

EVENT_CFG

Event templates

Table 103. Columns

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

Table 104. 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.

Table 105. Columns

Name	Type	State	Default	Description
event_id	BIGINT	NOT NULL		Unique identifier.
event_code	INTEGER	NOT NULL		Event code. Reference to EVENT_CFG.
event_timestamp	INTEGER	NOT NULL		Unix time stamp of the event.
event_source	INTEGER	NOT NULL		Source object which originated evenent.
dci_id	INTEGER	NOT NULL		Non-zero ID of the DCI related to this event. If event is unrelated to any DCI, value is `0`.
event_severity	INTEGER	NOT NULL		Event severity at the moment of insertion into log.
event_message	VARCHAR(2000)	NULL		Event message.
root_event_id	BIGINT	NOT NULL		If event was correlated, this field contains root event which cause further events to be emmited.
zone_uin	INTEGER	NULL		Zone unique identification number form ZONES
raw_data	TEXT	NULL		Event raw data
tags	VARCHAR(2000)	NULL		Event tags coma separated
origin	INTEGER	NOT NULL		Event origin. Possible options: • 0 - SYSTEM • 1 - AGENT • 2 - CLIENT • 3 - SYSLOG • 4 - SNMP • 5 - NXSL • 6 - REMOTE_SERVER
origin_timestamp	INTEGER	NOT NULL		Unix time stamp of the event on origin.

Table 106. 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.

Table 107. Columns

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

Table 108. Indexes

Name	Type	Fields
event_policy_pkey	UNIQUE	rule_id

GEO_AREAS

Geo area for device area monitoring.

Table 109. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique identifier.
name	VARCHAR(127)	NOT NULL		Area name.
comments	TEXT	NULL		Text comment.
configuration	TEXT	NULL		Area border configuration

Table 110. Indexes

Name	Type	Fields
geo_areas_pkey	UNIQUE	id

GRAPH_ACL

Access control table for saved graphs.

Table 111. Columns

Name	Type	State	Default	Description
graph_id	INTEGER	NOT NULL		Graph ID. Reference to GRAPHS.
user_id	INTEGER	NOT NULL		User ID. Reference to USERS or USER_GROUPS.
user_rights	INTEGER	NOT NULL		Bitmaks of effective permissions. Known values: • 0x00000001 – Read • 0x00000002 – Modify • 0x00000008 – Delete

Table 112. Indexes

Name	Type	Fields
graph_acl_pkey	UNIQUE	graph_id,user_id

GRAPHS

Saved graphs.

Table 113. Columns

Name	Type	State	Default	Description
graph_id	INTEGER	NOT NULL		Unique identifier.
owner_id	INTEGER	NOT NULL		Object owner. Reference to USERS.
flags	INTEGER	NOT NULL		
name	VARCHAR(255)	NOT NULL		Name of the graph.
config	TEXT	NULL		XML-based configuration of the graph.
filters	TEXT	NULL		

Table 114. Indexes

Name	Type	Fields
graphs_pkey	UNIQUE	graph_id

HARDWARE_INVENTORY

Node hardware inventory

Table 115. Columns

Name	Type	State	Default	Description
node_id	INTEGER	NOT NULL		ID of the object. Reference to NODES.
component_type	VARCHAR(12)	NOT NULL		Component type
component_index	INTEGER	NOT NULL		Component index
vendor	VARCHAR(127)	NULL		Component vendor
model	VARCHAR(127)	NULL		Component model
capacity	INTEGER	NOT NULL		Access point serial number
serial_number	VARCHAR(63)	NULL		Component serial number
part_number	VARCHAR(63)	NULL		Component part number

Table 116. Indexes

Name	Type	Fields
hardware_inventory_pkey	UNIQUE	node_id,component_type,component_index

ICMP_STATISTICS

Node ICMP statistics

Table 117. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		ID of the node. Reference to NODES.
poll_target	VARCHAR(63)	NOT NULL		Poll target
min_response_time	INTEGER	NOT NULL		Target minimal target response time
max_response_time	INTEGER	NOT NULL		Target maximal response time
avg_response_time	INTEGER	NOT NULL		Target average response time
last_response_time	INTEGER	NOT NULL		Target last response time
sample_count	INTEGER	NOT NULL		Target sample count

raw_response_times	TEXT	NULL	□	All raw data for the period in hex. 3 hex numbers for each number.

Table 118. Indexes

Name	Type	Fields
icmp_statistics_pkey	UNIQUE	object_id,poll_target

ICMP_TARGET_ADDRESS_LIST

List of addtitional ping targets for the node

Table 119. Columns

Name	Type	State	Default	Description
□node_id	INTEGER	NOT NULL	□	ID of the node. Reference to NODES.
ip_addr	VARCHAR(48)	NOT NULL	□	IP address

Table 120. Indexes

Name	Type	Fields
icmp_target_address_list_pkey	UNIQUE	node_id,ip_addr

IDATA_<NODE_ID>

Contains historical values for single-value DCIs for the node. Table name is dynamic, <NODE_ID> is replaced by actuall node id (e.g. "IDATA_100"). The table is populated only if single table performance data is disabled. Not used when timescale is enabled.

Table 121. Columns

Name	Type	State	Default	Description
□item_id	INTEGER	NOT NULL	□	Item id from ITEMS
□idata_timestamp	INTEGER	NOT NULL	□	Unix time stamp
idata_value	VARCHAR(255)	NULL	□	Collected value.
raw_value	VARCHAR(255)	NULL	□	Raw value.

Table 122. Indexes

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

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.

Table 123. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from ITEMS
idata_timestamp	INTEGER	NOT NULL		Unix time stamp for collected value
idata_value	VARCHAR(255)	NULL		Collected value.
raw_value	VARCHAR(255)	NULL		Raw value.

Table 124. Indexes

Name	Type	Fields
idata_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.

Table 125. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from ITEMS
idata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
idata_value	VARCHAR(255)	NULL		Collected value.
raw_value	VARCHAR(255)	NULL		Raw value.

Table 126. Indexes

Name	Type	Fields
idata_sc_7_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.

Table 127. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from ITEMS
idata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
idata_value	VARCHAR(255)	NULL		Collected value.
raw_value	VARCHAR(255)	NULL		Raw value.

Table 128. Indexes

Name	Type	Fields
idata_sc_30_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.

Table 129. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from ITEMS
idata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
idata_value	VARCHAR(255)	NULL		Collected value.
raw_value	VARCHAR(255)	NULL		Raw value.

Table 130. Indexes

Name	Type	Fields
idata_sc_90_key	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.

Table 131. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from ITEMS
idata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
idata_value	VARCHAR(255)	NULL		Collected value.
raw_value	VARCHAR(255)	NULL		Raw value.

Table 132. Indexes

Name	Type	Fields
idata_sc_180_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.

Table 133. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from ITEMS
idata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
idata_value	VARCHAR(255)	NULL		Collected value.
raw_value	VARCHAR(255)	NULL		Raw value.

Table 134. 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.

Table 135. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from ITEMS
idata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
idata_value	VARCHAR(255)	NULL		Collected value.
raw_value	VARCHAR(255)	NULL		Raw value.

Table 136. Indexes

Name	Type	Fields
idata_sc_other_key	NORMAL	item_id,idata_timestamp

IMAGES

Meta-data for image library.

Table 137. Columns

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

Table 138. 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

Table 139. Columns

Name	Type	State	Default	Description
owner_id	INTEGER	NOT NULL		Object id from OBJECT_TOOLS or from OBJECT_QUERIES.
name	VARCHAR(31)	NOT NULL		Input field name
category	CHAR(1)	NOT NULL		Input filed category: • Q - Object query • T - Object tools
input_type	CHAR(1)	NOT NULL		Input type: • 0 - TEXT • 1 - PASSWORD • 2 - NUMBER
display_name	VARCHAR(127)	NULL		Input field display name
sequence_num	INTEGER	NOT NULL		Input field sequence number
flags	INTEGER	NOT NULL		Input field bit flags: • Validate password 1

Table 140. Indexes

Name	Type	Fields
input_fields_pkey	UNIQUE	category,owner_id,name

INTERFACE_ADDRESS_LIST

Interface IP addresses

Table 141. Columns

Name	Type	State	Default	Description
iface_id	INTEGER	NOT NULL		Interface id form INTERFACES
ip_addr	VARCHAR(48)	NOT NULL		IP addess
ip_netmask	INTEGER	NOT NULL		Network mask

Table 142. Indexes

Name	Type	Fields
interface_address_list_pkey	UNIQUE	iface_id,ip_addr

INTERFACE_VLAN_LIST

Vlan to interface connection

Table 143. Columns

Name	Type	State	Default	Description
iface_id	INTEGER	NOT NULL		Interface id from INTERFACES
vlan_id	INTEGER	NOT NULL		Vlan id

Table 144. Indexes

Name	Type	Fields
interface_vlan_list_pkey	UNIQUE	iface_id,vlan_id

INTERFACES

Interface information

Table 145. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Record primary key
node_id	INTEGER	NOT NULL		Node id from NODES
if_type	INTEGER	NOT NULL		If type. (SNMP standard values)

if_index	INTEGER	NOT NULL		Index of interface
mtu	INTEGER	NOT NULL		MTU (bytes)
speed	BIGINT	NOT NULL		Speed (bps)
bridge_port	INTEGER	NOT NULL		Bridge port number
phy_module	INTEGER	NOT NULL		Physical module
phy_port	INTEGER	NOT NULL		Physical port number
peer_node_id	INTEGER	NOT NULL		Peer node id from NODES
peer_if_id	INTEGER	NOT NULL		Peer interface id from INTERFACES
peer_proto	INTEGER	NOT NULL		Discovery protocol used for peer discovery
mac_addr	VARCHAR(12)	NOT NULL		MAC address
required_polls	INTEGER	NOT NULL		Number of polls for status change
admin_state	INTEGER	NOT NULL		Interface administrative states: • 0 - IF_ADMIN_STATE_UNKNOWN • 1 - IF_ADMIN_STATE_UP • 2 - IF_ADMIN_STATE_DOWN • 3 - IF_ADMIN_STATE_TESTING
oper_state	INTEGER	NOT NULL		Interface operational states: • 0 - IF_OPER_STATE_UNKNOWN • 1 - IF_OPER_STATE_UP • 2 - IF_OPER_STATE_DOWN • 3 - IF_OPER_STATE_TESTING • 4 - IF_OPER_STATE_DORMANT • 5 - IF_OPER_STATE_NOT_PRESENT
dot1x_pae_state	INTEGER	NOT NULL		802.1x PAE state
dot1x_backend_state	INTEGER	NOT NULL		802.1x backend state
description	VARCHAR(255)	NULL		Interface description - value of ifDescr for SNMP, equals to name for NetXMS agent
iftable_suffix	VARCHAR(127)	NULL		SNMP OID suffix in ifTable
parent_iface	INTEGER	NOT NULL		Interface id from INTERFACES
phy_chassis	INTEGER	NOT NULL		Physical chassis
phy_pic	INTEGER	NOT NULL		Physical interface card

oper_slast_known_oper_statetate	INTEGER	NOT NULL		Last known interface operational states: • 0 - IF_OPER_STATE_UNKNOWN • 1 - IF_OPER_STATE_UP • 2 - IF_OPER_STATE_DOWN • 3 - IF_OPER_STATE_TESTING • 4 - IF_OPER_STATE_DORMANT • 5 - IF_OPER_STATE_NOT_PRESENT
last_known_admin_state	INTEGER	NOT NULL		Last known Interface administrative states: • 0 - IF_ADMIN_STATE_UNKNOWN • 1 - IF_ADMIN_STATE_UP • 2 - IF_ADMIN_STATE_DOWN • 3 - IF_ADMIN_STATE_TESTING
if_alias	VARCHAR(255)	NULL		Interface alias
ospf_area	VARCHAR(15)	NULL		OSPF area IP address
ospf_if_type	INTEGER	NOT NULL		OSPF interface type: • 0 - UNKNOWN • 1 - BROADCAST • 2 - NBMA • 3 - POINT_TO_POINT • 4 - POINT_TO_MULTIPOINT
ospf_if_state	INTEGER	NOT NULL		OSPF interface state: • 0 - UNKNOWN • 1 - DOWN • 2 - LOOPBACK • 3 - WAITING • 4 - POINT_TO_POINT • 5 - DESIGNATED_ROUTER • 6 - BACKUP_DESIGNATED_ROUTER • 7 - OTHER_DESIGNATED_ROUTER

stp_port_state	INTEGER	NOT NULL		STP port state: • 0 - UNKNOWN • 1 - DISABLED • 2 - BLOCKING • 3 - LISTENING • 4 - LEARNING • 5 - FORWARDING • 6 - BROKEN
if_name	VARCHAR(255)	NULL		Original interface name as received from SNMP or NetXMS agent (before expansion)

Table 146. Indexes

Name	Type	Fields
interfaces_pkey	UNIQUE	id

ITEMS

Data collection configuration for signle-value items.

Table 147. 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 NODES or CLUSTERS.
template_id	INTEGER	NOT NULL		ID of the source template. If item was created directly on the node, value will be `0`. Reference to TEMPLATES.
template_item_id	INTEGER	NOT NULL		ID of the DCI in the template. If item was created directly on the node, value will be `0`. Reference to TEMPLATES.
guid	VARCHAR(36)	NOT NULL		Record GUID.
name	VARCHAR(1023)	NULL		Name of the parameter. Depending on the source, it can be agent's parameter, SNMP OID, Script name, etc.

description	VARCHAR(255)	NULL		Human readable description of the item.
flags	INTEGER	NOT NULL		Data collection item flags: • DCF_ALL_THRESHOLDS 0x0002 • DCF_RAW_VALUE_OCTET_STRING 0x0004 • DCF_SHOW_ON_OBJECT_TOOLTIP 0x0008 • DCF_AGGREGATE_FUNCTION_MASK 0x0070 • DCF_AGGREGATE_ON_CLUSTER 0x0080 • DCF_TRANSFORM_AGGREGATED 0x0100 • DCF_CALCULATE_NODE_STATUS 0x0400 • DCF_SHOW_IN_OBJECT_OVERVIEW 0x0800 • DCF_CACHE_MODE_MASK 0x3000 • DCF_AGGREGATE_WITH_ERRORS 0x4000
source	INTEGER	NOT NULL		Source node. If this value is non-zero, server will query data from this node instead of the node specified by `node_id`. Reference to NODES.
snmp_port	INTEGER	NOT NULL		SNMP port.

datatype	INTEGER	NOT NULL		Type of data: • 0 - DCI_DT_INT • 1 - DCI_DT_UINT • 2 - DCI_DT_INT64 • 3 - DCI_DT_UINT64 • 4 - DCI_DT_STRING • 5 - DCI_DT_FLOAT • 6 - DCI_DT_NULL • 7 - DCI_DT_COUNTER32 • 8 - DCI_DT_COUNTER64 • 255 - DCI_DT_DEPRECATED (used internally by agent)
polling_interval	INTEGER	NOT NULL		Polling interval in seconds.
retention_time	INTEGER	NOT NULL		Retention time in days.
status	INTEGER	NOT NULL		Status of the DCI. Known values: • 0 – Active • 1 – Disabled • 2 – Not Supported
snmp_raw_value_type	INTEGER	NOT NULL		SNMP raw value type: • 0 - SNMP_RAWTYPE_NONE • 1 - SNMP_RAWTYPE_INT32 • 2 - SNMP_RAWTYPE_UINT32 • 3 - SNMP_RAWTYPE_INT64 • 4 - SNMP_RAWTYPE_UINT64 • 5 - SNMP_RAWTYPE_DOUBLE • 6 - SNMP_RAWTYPE_IP_ADDR • 7 - SNMP_RAWTYPE_MAC_ADDR

delta_calculation	INTEGER	NOT NULL		Delta calculation methods for DCI: • 0 - DCM_ORIGINAL_VALUE • 1 - DCM_SIMPLE • 2 - DCM_AVERAGE_PER_SECOND • 3 - DCM_AVERAGE_PER_MINUTE
transformation	TEXT	NULL		NXSL transformation script
instance	VARCHAR(255)	NULL		Instance
system_tag	VARCHAR(255)	NULL		System tag used by different system modules to save module information
resource_id	INTEGER	NOT NULL		Cluster resource id from CLUSTER_RESOURCES
proxy_node	INTEGER	NOT NULL		ID of the proxy node. Reference to NODES.
multiplier	INTEGER	NOT NULL		Multiplier. 0 - for default
units_name	VARCHAR(63)	NULL		Unit name
perftab_settings	TEXT	NULL		Data collection table XML configuration for Performance tab
instd_method	INTEGER	NOT NULL		Method of instance discovery: • 0 – IDM_NONE • 1 – IDM_AGENT_LIST • 2 – IDM_AGENT_TABLE • 3 – IDM_SNMP_WALK_VALUES • 4 – IDM_SNMP_WALK_OIDS • 5 – IDM_SCRIPT
instd_data	VARCHAR(255)	NULL		Data for instance discovery (Srcipt name, Agent list...)
instd_filter	TEXT	NULL		NXSL instance discovery filter
samples	INTEGER	NOT NULL		Number of samples used for reading counter (only for "Windows preformance counter" origin).
npe_name	VARCHAR(15)	NULL		Prediction engine name

comments	TEXT	NULL		Data collection item comment
instance_retention_time	INTEGER	NOT NULL		Retention time for deleted instances
grace_period_start	INTEGER	NOT NULL		Start for grade period for deleted instance
related_object	INTEGER	NOT NULL		Related object
polling_interval_src	VARCHAR(255)	NOT NULL		Source for polling interval calculation
retention_time_src	VARCHAR(255)	NOT NULL		Source for retention time calculation
polling_schedule_type	CHAR(1)	NOT NULL		Polling schedule type: • DC_POLLING_SCHEDULE_DEFAULT = 0 • DC_POLLING_SCHEDULE_CUSTOM = 1 • DC_POLLING_SCHEDULE_ADVANCED = 2
retention_type	CHAR(1)	NOT NULL		Retention type: • DC_RETENTION_DEFAULT = 0 • DC_RETENTION_CUSTOM = 1 • DC_RETENTION_NONE = 2
snmp_version	INTEGER	NOT NULL		SNMP version
state_flags	INTEGER	NOT NULL		State bit flags: • DCO_STATE_DISABLED_BY_USER 1

Table 148. Indexes

Name	Type	Fields
idx_items_node_id	NORMAL	node_id
items_pkey	UNIQUE	item_id

LICENSES

License repository

Table 149. Columns

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

content	TEXT	NULL	□	License content

Table 150. Indexes

Name	Type	Fields
licenses_pkey	UNIQUE	id

MAINTENANCE_JOURNAL

Maintenance journal

Table 151. Columns

Name	Type	State	Default	Description
□record_id	INTEGER	NOT NULL	□	Unique identifier
object_id	INTEGER	NOT NULL	□	Object id form NODES
author	INTEGER	NOT NULL	□	User id USERS that initiated maintenance.
last_edited_by	INTEGER	NOT NULL	□	User id USERS that made last change.
description	TEXT	NULL	□	Maintenance reason.
creation_time	INTEGER	NOT NULL	□	UNIX timestamp when object entered maintenance
modification_time	INTEGER	NOT NULL	□	UNIX timestamp when object maintenance mode last changed

Table 152. 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

Table 153. Columns

Name	Type	State	Default	Description
□table_id	INTEGER	NOT NULL	□	Mapping table id form MAPPING_TABLES
□md_key	VARCHAR(63)	NOT NULL	□	Maping data key
md_value	VARCHAR(4000)	NULL	□	Mapping data value
description	VARCHAR(4000)	NULL	□	Maping value description

Table 154. Indexes

Name	Type	Fields
mapping_data_pkey	UNIQUE	table_id,md_key

MAPPING_TABLES

Mapping tables

Table 155. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique mapping table id
name	VARCHAR(63)	NOT NULL		Mapping table name
flags	INTEGER	NOT NULL		Mapping table flags: • MTF_NUMERIC_KEYS 0x00000001
description	VARCHAR(4000)	NULL		Mapping table description

Table 156. Indexes

Name	Type	Fields
mapping_tables_pkey	UNIQUE	id

METADATA

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

Table 157. Columns

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

Table 158. Indexes

Name	Type	Fields
metadata_pkey	UNIQUE	var_name

MOBILE_DEVICES

Mobile devices from object_properties

Table 159. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Mobile device id

device_id	VARCHAR(64)	NOT NULL	□	Device ID(IMEI or ESN)
vendor	VARCHAR(64)	NULL	□	Device vendor
model	VARCHAR(128)	NULL	□	Device model
serial_number	VARCHAR(64)	NULL	□	Serial number
os_name	VARCHAR(32)	NULL	□	Operating system name
os_version	VARCHAR(64)	NULL	□	Operation system version
user_id	VARCHAR(64)	NULL	□	User id
battery_level	INTEGER	NOT NULL	□	Battery charge level
comm_protocol	VARCHAR(31)	NULL	□	Communication protocol. One of: • UNKNOWN • NXCP • NTCB/FLEX
speed	VARCHAR(20)	NOT NULL	□	Speed in km/h. -1 if unknown.
direction	INTEGER	NOT NULL	□	Direction in azimuth degrees. -1 if unknown.
altitude	INTEGER	NOT NULL	□	Altitude above see level in meeters. 0 if unknown.

Table 160. Indexes

Name	Type	Fields
mobile_devices_pkey	UNIQUE	id

NC_PERSISTENT_STORAGE

Notification channel persistent storage

Table 161. Columns

Name	Type	State	Default	Description
□channel_name	VARCHAR(63)	NOT NULL	□	Channel name form NOTIFICATION_CHANNELS
□entry_name	VARCHAR(127)	NOT NULL	□	Entry name
entry_value	VARCHAR(2000)	NOT NULL	□	Entry value

Table 162. 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)

Table 163. Columns

Name	Type	State	Default	Description
map_id	INTEGER	NOT NULL		Network map id NETWORK_MAPS
object_id	INTEGER	NOT NULL		Object if form OBJECT_PROPERTIES
element_index	INTEGER	NOT NULL		Index of deleted object
position_x	INTEGER	NOT NULL		Element x coordinate position on map
position_y	INTEGER	NOT NULL		Element y coordinate position on map

Table 164. Indexes

Name	Type	Fields
network_map_deleted_nodes_pkey	UNIQUE	map_id,object_id

NETWORK_MAP_ELEMENTS

Elements of network maps

Table 165. Columns

Name	Type	State	Default	Description
map_id	INTEGER	NOT NULL		Network map id NETWORK_MAPS
element_id	INTEGER	NOT NULL		Element id
element_type	INTEGER	NOT NULL		Element type: • 0 - MAP_ELEMENT_GENERIC • 1 - MAP_ELEMENT_OBJECT • 2 - MAP_ELEMENT_DECORATION • 3 - MAP_ELEMENT_DCI_CONTAINER • 4 - MAP_ELEMENT_DCI_IMAGE • 5 - MAP_ELEMENT_TEXT_BOX
element_data	TEXT	NOT NULL		Element data in XML format
flags	INTEGER	NOT NULL		Network map element flags. Currently there are no flags defined.

Table 166. Indexes

Name	Type	Fields

network_map_elements_pkey	UNIQUE	map_id,element_id

NETWORK_MAP_LINKS

Links on network maps

Table 167. Columns

Name	Type	State	Default	Description
map_id	INTEGER	NOT NULL		Network map id from NETWORK_MAPS
link_id	INTEGER	NOT NULL		Link id
element1	INTEGER	NOT NULL		Start element id from NETWORK_MAP_ELEMENTS
element2	INTEGER	NOT NULL		End element id NETWORK_MAP_ELEMENTS
link_type	INTEGER	NOT NULL		Link type: • 0 - LINK_TYPE_NORMAL • 1 - LINK_TYPE_VPN • 2 - LINK_TYPE_MULTILINK
link_name	VARCHAR(255)	NULL		Link name
connector_name1	VARCHAR(255)	NULL		First element connector name
connector_name2	VARCHAR(255)	NULL		Second element connector name
element_data	TEXT	NULL		Element XML configuration
flags	INTEGER	NOT NULL		Network map link flags. Currently there are no flags defined. color_source

INTEGER	NOT NULL		Source of color: * MAP_LINK_COLOR_SOURCE_UNDEFINED - -1 * MAP_LINK_COLOR_SOURCE_DEFAULT - 0 * MAP_LINK_COLOR_SOURCE_OBJECT_STATUS - 1 * MAP_LINK_COLOR_SOURCE_CUSTOM_COLOR - 2 * MAP_LINK_COLOR_SOURCE_SCRIPT - 3	color
INTEGER	NOT NULL		Int representation of RGB color	color_provider

Table 168. 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.

Table 169. Columns

Name	Type	State	Default	Description
map_id	INTEGER	NOT NULL		Network map id from NETWORK_MAPS
seed_node_id	INTEGER	NOT NULL		Node is from NODES

Table 170. Indexes

Name	Type	Fields
network_map_seed_nodes_pkey	UNIQUE	map_id,seed_node_id

NETWORK_MAPS

Network maps

Table 171. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Network map id unique id from OBJECT_PROPERTIES
map_type	INTEGER	NOT NULL		Network map type: • 0 - MAP_TYPE_CUSTOM • 1 - MAP_TYPE_LAYER2_TOPOLOGY • 2 - MAP_TYPE_IP_TOPOLOGY
layout	INTEGER	NOT NULL		Network map layout: • 0x7FFF - MAP_LAYOUT_MANUAL • 0 - MAP_LAYOUT_SPRING • 1 - MAP_LAYOUT_RADIAL • 2 - MAP_LAYOUT_HTREE • 3 - MAP_LAYOUT_VTREE • 4 - MAP_LAYOUT_SPARSE_VTREE
radius	INTEGER	NOT NULL		Riscovery radius form automatic maps
background	VARCHAR(36)	NULL		UUID of background immage

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: • 0 - ROUTING_DEFAULT • 1 - ROUTING_DIRECT • 2 - ROUTING_MANHATTAN • 3 - ROUTING_BENDPOINTS
object_display_mode	INTEGER	NOT NULL	□	Object display mode: • 0 - ICON • 1 - SMALL_LABEL • 2 - LARGE_LABEL • 3 - STATUS • 4 - FLOOR_PLAN
filter	TEXT	NULL	□	Network map NXSL object filter for automatic maps

Table 172. Indexes

Name	Type	Fields
network_maps_pkey	UNIQUE	id

NETWORK_SERVICES

Network services

Table 173. Columns

Name	Type	State	Default	Description
□id	INTEGER	NOT NULL	□	Network service unique identifier from OBJECT_PROPERTIES
node_id	INTEGER	NOT NULL	□	Service location node id form NODES

service_type	INTEGER	NOT NULL		Service type: • 0 - NETSRV_CUSTOM • 1 - NETSRV_SSH • 2 - NETSRV_POP3 • 3 - NETSRV_SMTP • 4 - NETSRV_FTP • 5 - NETSRV_HTTP • 6 - NETSRV_HTTPS • 7 - NETSRV_TELNET
ip_bind_addr	VARCHAR(48)	NOT NULL		Listen IP address
ip_proto	INTEGER	NOT NULL		IP protocol
ip_port	INTEGER	NOT NULL		TCP/UDP port
check_request	TEXT	NULL		Check request
check_response	TEXT	NULL		Check response
poller_node_id	INTEGER	NOT NULL		Node id that does polling form NODES if polling should be done not from service parent node.
required_polls	INTEGER	NOT NULL		Number of pols required to change service status

Table 174. Indexes

Name	Type	Fields
network_services_pkey	UNIQUE	id

NODE_COMPONENTS

Node hardware components retrieved using Entity MIB.

Table 175. Columns

Name	Type	State	Default	Description
node_id	INTEGER	NOT NULL		Node object ID. Reference to NODES.
component_index	INTEGER	NOT NULL		Unique component index.
parent_index	INTEGER	NOT NULL		Index of parent component (0 for root component).
position	INTEGER	NOT NULL		Relative position within parent component.

component_class	INTEGER	NOT NULL		Physical class of the component. • 1 – Other • 2 – Unknown • 3 – Chassis • 4 – Backplane • 5 - Container • 6 - Power supply • 7 - Fan • 8 - Sensor • 9 - Module • 10 - Port • 11 - Stack • 12 - CPU
if_index	INTEGER	NOT NULL		Interface index of related network interface or 0.
name	VARCHAR(255)	NULL		Component's name.
description	VARCHAR(255)	NULL		Component's description.
model	VARCHAR(255)	NULL		Component's model name.
serial_number	VARCHAR(63)	NULL		Component's serial number.
vendor	VARCHAR(63)	NULL		Component's vendor name.
firmware	VARCHAR(127)	NULL		Component's firmware information.

Table 176. Indexes

Name	Type	Fields
node_components_pkey	UNIQUE	node_id, component_index

NOTIFICATION_CHANNELS

Configuration for notification channels

Table 177. Columns

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

Table 178. Indexes

Name	Type	Fields
notification_channels_pkey	UNIQUE	name

NODES

Nodes

Table 179. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Node id from OBJECT_PROPERTIES
primary_name	VARCHAR(255)	NULL		Primary host name
primary_ip	VARCHAR(48)	NOT NULL		Primary IP (resolved primary host name)
snmp_version	INTEGER	NOT NULL		SNMP version • 0 - SNMP_VERSION_1 • 1 - SNMP_VERSION_2C • 3 - SNMP_VERSION_3
snmp_port	INTEGER	NOT NULL		SNMP port
community	VARCHAR(127)	NULL		SNMP community string
usm_auth_password	VARCHAR(127)	NULL		SNMP v3 authentication password
usm_priv_password	VARCHAR(127)	NULL		SNMP v3 encryption password
usm_methods	INTEGER	NOT NULL		SNMP v3 authentication and encryption methods
snmp_oid	VARCHAR(255)	NULL		SNMP object id
secret	VARCHAR(88)	NULL		Agent shared secret
agent_port	INTEGER	NOT NULL		Agent port
agent_version	VARCHAR(63)	NULL		Agent version
platform_name	VARCHAR(63)	NULL		Platform name as reported by agent
poller_node_id	INTEGER	NOT NULL		Id of node from NODES used for network service polling for this node
zone_guid	INTEGER	NOT NULL		Zone unique identification number from ZONES

proxy_node	INTEGER	NOT NULL		Agent proxy node id from NODES
snmp_proxy	INTEGER	NOT NULL		SNMP proxy node id from NODES
icmp_proxy	INTEGER	NOT NULL		ICMP proxy node id from NODES
required_polls	INTEGER	NOT NULL		Number of polls for status change
uname	VARCHAR(255)	NULL		System description
use_ifxtable	INTEGER	NOT NULL		ifXTable usage mode: • 0 - IFXTABLE_DEFAULT Use global settings • 1 - IFXTABLE_ENABLED • 2 - IFXTABLE_DISABLED
snmp_sys_name	VARCHAR(127)	NULL		System name as reported by SNMP agent
snmp_sys_contact	VARCHAR(127)	NULL		System contact as reported by SNMP agent
snmp_sys_location	VARCHAR(255)	NULL		System location as reported by SNMP agent
bridge_base_addr	VARCHAR(15)	NULL		Bridge base address
down_since	INTEGER	NOT NULL		Unix timestamp of last SYS_NODE_DOWN event
boot_time	INTEGER	NOT NULL		Node boot time (as UNIX timestamp)
driver_name	VARCHAR(32)	NULL		Network device driver name
rack_image_front	VARCHAR(36)	NULL		Image GUID to be used in front rack view
rack_position	INTEGER	NOT NULL		Position in rack (in rack units)
rack_height	INTEGER	NOT NULL		Height in rack (in rack units)
physical_container_id	INTEGER	NOT NULL		Related rack or chassis object ID
agent_cache_mode	CHAR(1)	NOT NULL		Agent cache mode: • 0 - AGENT_CACHE_DEFAULT Use global configuration • 1 - AGENT_CACHE_ON • 2 - AGENT_CACHE_OFF

last_agent_comm_time	INTEGER	NOT NULL		Last agent communication time (as UNIX timestamp)
syslog_msg_count	BIGINT	NOT NULL		Total number of received syslog messages
snmp_trap_count	BIGINT	NOT NULL		Total number of received SNMP traps
node_type	INTEGER	NOT NULL		Node type: • 0 - NODE_TYPE_UNKNOWN • 1 - NODE_TYPE_PHYSICAL • 2 - NODE_TYPE_VIRTUAL • 3 - NODE_TYPE_CONTROLLER • 4 - NODE_TYPE_CONTAINER
node_subtype	VARCHAR(127)	NULL		Node sub-type
ssh_login	VARCHAR(63)	NULL		SSH login
ssh_password	VARCHAR(63)	NULL		SSH password
ssh_proxy	INTEGER	NOT NULL		SSH proxy node id from NODES
port_rows	INTEGER	NOT NULL		Number of port rows
port_numbering_scheme	INTEGER	NOT NULL		Numbering scheme of ports
agent_comp_mode	CHAR(1)	NOT NULL		Agent compression mode: • 0 - NODE_AGENT_COMPRESSION_DEFAULT Use global configuration • 1 - NODE_AGENT_COMPRESSION_ENABLED • 2 - NODE_AGENT_COMPRESSION_DISABLED
tunnel_id	VARCHAR(36)	NULL		GUID of bound tunnel
lldp_id	VARCHAR(63)	NULL		LLDP id
fail_time_snmp	INTEGER	NOT NULL		Last SNMP request file time
fail_time_agent	INTEGER	NOT NULL		Last agent request file time

rack_orientation	INTEGER	NOT NULL		Rack orientation type: • 0 - FILL • 1 - FRONT • 2 - REAR
rack_image_rear	VARCHAR(36)	NOT NULL		Image GUID to be used in rear rack view
agent_id	VARCHAR(36)	NULL		Agent id
agent_cert_subject	VARCHAR(500)	NULL		Agent certificate subject
hypervisor_type	VARCHAR(31)	NULL		Hypervisor type. Wel known types: • OpenVZ • Linux-VServer • LXC • Docker • XEN • VMware • Hyper-V • KVM • bhyve • Parallels • VirtualBox
hypervisor_info	VARCHAR(255)	NULL		Hypervisor info that might be or might not be. There can be some version information.

capabilities	INTEGER	NOT NULL		Node capabilities: • 0x00000001 - NC_IS_SNMP • 0x00000002 - NC_IS_NATIVE_AGENT • 0x00000004 - NC_IS_BRIDGE • 0x00000008 - NC_IS_ROUTER • 0x00000010 - NC_IS_LOCAL_MGMT • 0x00000020 - NC_IS_PRINTER • 0x00000040 - NC_IS_OSPF • 0x00000080 - NC_IS_CPSNMP CheckPoint SNMP agent on port 260. • 0x00000100 - NC_IS_CDP • 0x00000200 - NC_IS_NDP Supports Nortel (Synoptics/Bay Networks) topology discovery. SONMP is an old name for NDP. • 0x00000400 - NC_IS_LLDP Supports Link Layer Discovery Protocol. • 0x00000800 - NC_IS_VRRP VRRP support. • 0x00001000 - NC_HAS_VLANS VLAN information available. • 0x00002000 - NC_IS_8021X 802.1x support enabled on node. • 0x00004000 - NC_IS_STP Spanning Tree (IEEE 802.1d) enabled on node. • 0x00008000 - NC_HAS_ENTITY_MIB Supports ENTITY-MIB. • 0x00010000 - NC_HAS_IFXTABLE Supports ifXTable.

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
vendor	VARCHAR(127)	NULL		Vendor
product_name	VARCHAR(127)	NULL		Product name
product_version	VARCHAR(15)	NULL		Product version
product_code	VARCHAR(31)	NULL		Product code
serial_number	VARCHAR(31)	NULL		Serial number
cip_device_type	INTEGER	NOT NULL		CIP device type
cip_status	INTEGER	NOT NULL		CIP status
cip_state	INTEGER	NOT NULL		CIP state
cip_vendor_code	INTEGER	NOT NULL		CIP vendor code
eip_port	INTEGER	NOT NULL		EtherNet/IP port
eip_proxy	INTEGER	NOT NULL		EtherNet/IP port
hardware_id	VARCHAR(40)	NULL		Node’s unique hardware id
agent_cert_mapping_method	CHAR(1)	NOT NULL		Certificate mapping method: • MAP_CERTIFICATE_BY_SUBJECT - 0 • MAP_CERTIFICATE_BY_PUBKEY - 1 • MAP_CERTIFICATE_BY_CN - 2 • MAP_CERTIFICATE_BY_TEMPLATE_ID - 3
agent_cert_mapping_data	VARCHAR(500)	NULL		Agent certificate mapping data
snmp_engine_id	VARCHAR(255)	NULL		SNMP engine id
ssh_port	INTEGER	NOT NULL		SSH port for node
ssh_key_id	INTEGER	NOT NULL		SSH key id form SSH_KEYS
syslog_codepage	VARCHAR(15)	NULL		Code page used for syslog messages from this node.
snmp_codepage	VARCHAR(15)	NULL		Code page used for SNMP messages from this node.
fail_time_ssh	INTEGER	NOT NULL		SSH connection fail UNIX timestamp
ospf_router_id	VARCHAR(15)	NULL		OSPF router IP address

mqtt_proxy	INTEGER	NOT NULL		MQTT froxy node id form NODES
modbus_proxy	INTEGER	NOT NULL		MODBUS froxy node id form NODES
modbus_tcp_port	INTEGER	NOT NULL		MODBUS TCP port
modbus_unit_id	INTEGER	NOT NULL		MODBUS unit id
snmp_context_engine_id	VARCHAR(255)	NULL		SNMP context engine id

Table 180. Indexes

Name	Type	Fields
nodes_pkey	UNIQUE	id

NOTIFICATION_LOG

Table contains log for all sent notifications

Table 181. Columns

Name	Type	State	Default	Description
id	BIGINT	NOT NULL		Unique id.
notification_timestamp	INTEGER	NOT NULL		UNIX timestamp when notification was sent
notification_channel	VARCHAR(63)	NOT NULL		Name of notification channel form NOTIFICATION_CHANNELS
recipient	VARCHAR(2000)	NULL		Recipient list
subject	VARCHAR(2000)	NULL		Message subject
message	VARCHAR(2000)	NULL		Message
success	CHAR(1)	NULL		"1" if message sent successfully and "0" if not

Table 182. Indexes

Name	Type	Fields
notification_log_pkey	UNIQUE	id,notification_timestamp
idx_notification_log_timestamp	NORMAL	notification_timestamp

NSMAP

Nodes to subnets mapping

Table 183. Columns

Name	Type	State	Default	Description
subnet_id	INTEGER	NOT NULL		Subnet id from SUBNETS
node_id	INTEGER	NOT NULL		Node id from NODES

Table 184. Indexes

Name	Type	Fields
nsmap_pkey	UNIQUE	subnet_id,node_id

OBJECT_ACCESS_SNAPSHOT

Snapshot for object access rights

Table 185. Columns

Name	Type	State	Default	Description
user_id	INTEGER	NOT NULL		User id from USERS
object_id	INTEGER	NOT NULL		Object id from OBJECT_PROPERTIES.

access_rights	INTEGER	NOT NULL		Access rights: • OBJECT_ACCESS_READ 0x00000001 • OBJECT_ACCESS_MODIFY 0x00000002 • OBJECT_ACCESS_CREATE 0x00000004 • OBJECT_ACCESS_DELETE 0x00000008 • OBJECT_ACCESS_READ_ALARMS 0x00000010 • OBJECT_ACCESS_ACL 0x00000020 • OBJECT_ACCESS_UPDATE_ALARMS 0x00000040 • OBJECT_ACCESS_SEND_EVENTS 0x00000080 • OBJECT_ACCESS_CONTROL 0x00000100 • OBJECT_ACCESS_TERM_ALARMS 0x00000200 • OBJECT_ACCESS_PUSH_DATA 0x00000400 • OBJECT_ACCESS_CREATE_ISSUE 0x00000800 • OBJECT_ACCESS_DOWNLOAD 0x00001000 • OBJECT_ACCESS_UPLOAD 0x00002000 • OBJECT_ACCESS_MANAGE_FILES 0x00004000 • OBJECT_ACCESS_MAINTENANCE 0x00008000 • OBJECT_ACCESS_READ_AGENT 0x00010000 • OBJECT_ACCESS_READ_SNMP 0x00020000 • OBJECT_ACCESS_SCREENSHOT 0x00040000

Table 186. Indexes

Name	Type	Fields
object_access_snapshot_pkey	UNIQUE	user_id,object_id

OBJECT_CATEGORIES

Categories of object

Table 187. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique identifier.
name	VARCHAR(63)	NOT NULL		Category name.
icon	VARCHAR(36)	NULL		Icon uid from IMAGES used as icon image.
map_image	VARCHAR(36)	NULL		Icon uid from IMAGES used as map image.

Table 188. 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.

Table 189. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique identifier.
object_class	INTEGER	NOT NULL		Object class: • 5 - OBJECT_CONTAINER • 9 - OBJECT_TEMPLATEGROUP • 15 - OBJECT_BUSINESS_SERVICE_PROTOTYPE • 20 - OBJECT_NETWORKMAPGROUP • 23 - OBJECT_DASHBOARD • 28 - OBJECT_BUSINESS_SERVICE • 29 - OBJECT_NODELINK • 32 - OBJECT_RACK • 36 - OBJECT_DASHBOARDGROUP

Table 190. Indexes

Name	Type	Fields
object_containers_pkey	UNIQUE	id

OBJECT_CUSTOM_ATTRIBUTES

Object custom attributes

Table 191. Columns

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

Table 192. 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...)

Table 193. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		Object id
guid	VARCHAR(36)	NOT NULL		Object GUID
name	VARCHAR(63)	NOT NULL		Object name
status	INTEGER	NOT NULL		Object status(Unknown, Normal, Warning, Minor ...)
is_deleted	INTEGER	NOT NULL		Flag that defines if this object is scheduled for deletion
is_system	INTEGER	NOT NULL		Flag that defines if this object is the system object(DashboardRoot, ServiceRoot...)
last_modified	INTEGER	NOT NULL		Timestamp when this object was last modified
inherit_access_rights	INTEGER	NOT NULL		Defines if current object inherits access rights form parent (0 or 1)

status_calc_alg	INTEGER	NOT NULL		Status calculation algorithms: • 0 - SA_CALCULATE_DEFAULT • 1 - SA_CALCULATE_MOST_CRITICAL • 2 - SA_CALCULATE_SINGLE_THRESHOLD • 3 - SA_CALCULATE_MULTIPLE_THRESHOLDS
status_prop_alg	INTEGER	NOT NULL		Status propagation algorithms • 0 - SA_PROPAGATE_DEFAULT • 1 - SA_PROPAGATE_UNCHANGED • 2 - SA_PROPAGATE_FIXED • 3 - SA_PROPAGATE_RELATIVE • 4 - SA_PROPAGATE_TRANSLATED
status_fixed_val	INTEGER	NOT NULL		Fixed value for status if SA_PROPAGATE_FIXED propagation algorithms is used. Status options: • 0 - STATUS_NORMAL • 1 - STATUS_WARNING • 2 - STATUS_MINOR • 3 - STATUS_MAJOR • 4 - STATUS_CRITICAL • 5 - STATUS_UNKNOWN • 6 - STATUS_UNMANAGED • 7 - STATUS_DISABLED • 8 - STATUS_TESTING
status_shift	INTEGER	NOT NULL		Number of positions status is shifted (status+status_shift)

status_translation	VARCHAR(8)	NOT NULL		HEX string containing 4 bytes. Each byte represents a status mapping in status propagation configuration. Status byte order: • 1 warning • 2 medium • 3 major • 4 critical
status_single_threshold	INTEGER	NOT NULL		"Single threshold" value in status colculation
status_thresholds	VARCHAR(8)	NOT NULL		HEX string containing 4 bytes. Each byte represents threshold value for "Multiple thresholds" status calculation configuration. Status byte order: • 1 warning • 2 medium • 3 major • 4 critical
comments	TEXT	NULL		Comments
location_type	INTEGER	NOT NULL		Lactation type(Undefined, Manual, Automatic)
latitude	VARCHAR(20)	NULL		Latitude value
longitude	VARCHAR(20)	NULL		Longitude value
location_accuracy	INTEGER	NOT NULL		Received location accuracy
location_timestamp	INTEGER	NOT NULL		Last received location time
map_image	VARCHAR(36)	NOT NULL		Image GUID form IMAGES, that will be used to display object on network maps.
drilldown_object_id	INTEGER	NOT NULL		Drill down object id from NETWORK_MAPS or DASHBOARDS
country	VARCHAR(63)	NULL		Object location country
city	VARCHAR(63)	NULL		Object location city
street_address	VARCHAR(255)	NULL		Object location address
postcode	VARCHAR(31)	NULL		Object location postcode

maint_event_id	BIGINT	NOT NULL		Event id of maintenance entered event if currently in maintenance mode
state_before_maint	INTEGER	NOT NULL		State before maintenance

flags	INTEGER	NOT NULL		Object flags. Node flags: • 0x00010000 - NF_REMOTE_AGENT • 0x00020000 - NF_DISABLE_DISCOVERY_POLL • 0x00040000 - NF_DISABLE_TOPOLOGY_POLL • 0x00080000 - NF_DISABLE_SNMP • 0x00100000 - NF_DISABLE_NXCP • 0x00200000 - NF_DISABLE_ICMP • 0x00400000 - NF_FORCE_ENCRYPTION • 0x00800000 - NF_DISABLE_ROUTE_POLL • 0x01000000 - NF_AGENT_OVER_TUNNEL_ONLY • 0x02000000 - NF_SNMP_SETTINGS_LOCKED Interfaces flags: • 0x01 - IF_SYNTHETIC_MASK • 0x02 - IF_PHYSICAL_PORT • 0x04 - IF_EXCLUDE_FROM_TOPOLOGY • 0x08 - IF_LOOPBACK • 0x10 - IF_CREATED_MANUALLY • 0x20 - IF_PEER_REFLECTION Topology information obtained by reflection

state	INTEGER	NOT NULL		Object state. Data Collection Object (any object that supports data collection) status flags: • 0x00000001 - DCSF_UNREACHABLE • 0x00000002 - DCSF_NETWORK_PATH_PROBLEM Node state flags: • 0x00010000 - NSF_AGENT_UNREACHABLE • 0x00020000 - NSF_SNMP_UNREACHABLE • 0x00040000 - NSF_CPSNMP_UNREACHABLE • 0x00080000 - NSF_CACHE_MODE_NOT_SUPPORTED • 0x00100000 - NSF_SNMP_TRAP_FLOOD • 0x00200000 - NSF_ICMP_UNREACHABLE • 0x00400000 - NSF_SSH_UNREACHABLE Cluster state flags: • 0x00010000 - CLSF_DOWN Sensor state flags: • 0x00010000 - SSF_PROVISIONED • 0x00020000 - SSF_REGISTERED • 0x00040000 - SSF_ACTIVE • 0x00080000 - SSF_CONF_UPDATE_PENDING
creation_time	INTEGER	NOT NULL		Object creation time.

maint_initiator	INTEGER	NOT NULL		Maintenance initiator user id from USERS.
alias	VARCHAR(255)	NULL		Object alias
name_on_map	VARCHAR(63)	NULL		Object name on network map.
category	INTEGER	NOT NULL		Object category id from OBJECT_CATEGORIES.
region	VARCHAR(63)	NULL		Address region
district	VARCHAR(63)	NOT NULL		Address district
comments_source	TEXT	NULL		Source text of comments with unexpanded macros.
asset_id	INTEGER	NOT NULL		Linked asset_id

Table 194. Indexes

Name	Type	Fields
object_properties_pkey	UNIQUE	object_id

OBJECT_QUERIES

Saved object queries

Table 195. Columns

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

Table 196. Indexes

Name	Type	Fields
object_queries_pkey	UNIQUE	id

OBJECT_TOOLS_ACL

Access list for object tools

Table 197. Columns

Name	Type	State	Default	Description
tool_id	INTEGER	NOT NULL		Tool id from OBJECT_TOOLS

user_id	INTEGER	NOT NULL		User id form USERS

Table 198. 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

Table 199. Columns

Name	Type	State	Default	Description
tool_id	INTEGER	NOT NULL		Tool id from OBJECT_TOOLS
col_number	INTEGER	NOT NULL		Column number
col_name	VARCHAR(255)	NULL		Column name
col_oid	VARCHAR(255)	NULL		Column oid
col_format	INTEGER	NULL		Column format: • 0 - FORMAT_STRING • 1 - FORMAT_INTEGER • 2 - FORMAT_FLOAT • 3 - FORMAT_IP_ADDR • 4 - FORMAT_MAC_ADDR • 5 - FORMAT_IFINDEX
col_substr	INTEGER	NULL		Number of subsrging generated by regexp defined in OBJECT_TOOLS for this object tool.

Table 200. Indexes

Name	Type	Fields
object_tools_table_columns_pkey	UNIQUE	tool_id,col_number

OBJECT_TOOLS

Object tools

Table 201. Columns

Name	Type	State	Default	Description
tool_id	INTEGER	NOT NULL		Object tool unique identifier
guid	VARCHAR(36)	NOT NULL		Object tool GUID

tool_name	VARCHAR(255)	NULL	□	Object tool name
tool_type	INTEGER	NOT NULL	□	Object tool type: • 0 - TYPE_INTERNAL • 1 - TYPE_ACTION • 2 - TYPE_TABLE_SNMP • 3 - TYPE_TABLE_AGENT • 4 - TYPE_URL • 5 - TYPE_LOCAL_COMMAND • 6 - TYPE_SERVER_COMMAND • 7 - TYPE_FILE_DOWNLOAD • 8 - TYPE_SERVER_SCRIPT
tool_data	TEXT	NULL	□	Tool data (file name for file download, or command name for internal command...)
description	VARCHAR(255)	NULL	□	Object tool description
flags	INTEGER	NOT NULL	□	Object tool flags: • 0x00000001 - ASK_CONFIRMATION • 0x00000002 - GENERATES_OUTPUT • 0x00000004 - DISABLED • 0x00000008 - SHOW_IN_COMMANDS • 0x00000010 - SNMP_INDEXED_BY_VALUE • 0x00000020 - RUN_IN_CONTAINER_CONTEXT
tool_filter	TEXT	NULL	□	XML configuration for filtring objects object tool to be shown on
confirmation_text	VARCHAR(255)	NULL	□	Confirmation text
command_name	VARCHAR(255)	NULL	□	Command name (with path)
command_short_name	VARCHAR(31)	NULL	□	Command short name
icon	TEXT	NULL	□	Command icon
remote_port	INTEGER	NOT NULL	□	Remote port for tool execution

Table 202. 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.

Table 203. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		Object is from OBJECT_PROPERTIES.
url_id	INTEGER	NOT NULL		URL id. Unique amoung URLs of one object
url	VARCHAR(2000)	NULL		URL
description	VARCHAR(2000)	NULL		URL description

Table 204. Indexes

Name	Type	Fields
object_urls_pkey	UNIQUE	object_id,url_id

ORGANIZATIONS

Reserved for future use.

Table 205. Columns

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

Table 206. Indexes

Name	Type	Fields
organizations_pkey	UNIQUE	id

OSPF_AREAS

OSPF areas

Table 207. Columns

Name	Type	State	Default	Description
node_id	INTEGER	NOT NULL		Node id form form OBJECT_PROPERTIES
area_id	VARCHAR(63)	NOT NULL		Area id IP address

Table 208. Indexes

Name	Type	Fields
ospf_areas_pkey	UNIQUE	node_id,area_id

OSPF_NEIGHBORS

OSPF neighbors

Table 209. Columns

Name	Type	State	Default	Description
node_id	INTEGER	NOT NULL		Node id form OBJECT_PROPERTIES
router_id	VARCHAR(15)	NOT NULL		Router id IP address
area_id	VARCHAR(15)	NULL		Area id IP address
ip_address	VARCHAR(48)	NOT NULL		IP address
remote_node_id	INTEGER	NOT NULL		Remote node id form OBJECT_PROPERTIES
if_index	INTEGER	NOT NULL		Interface index
is_virtual	CHAR(1)	NOT NULL		'1' if virtual and '0' if not
neighbor_state	INTEGER	NOT NULL		Neighbor state: • 0 - UNKNOWN • 1 - DOWN • 2 - ATTEMPT • 3 - INIT • 4 - TWO_WAY • 5 - EXCHANGE_START • 6 - EXCHANGE • 7 - LOADING • 8 - FULL

Table 210. 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

Table 211. Columns

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

Table 212. Indexes

Name	Type	Fields
persistent_storage_pkey	UNIQUE	entry_key

PERSONS

Reserved for future use.

Table 213. Columns

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

Table 214. Indexes

Name	Type	Fields
persons_pkey	UNIQUE	id

PHYSICAL_LINKS

Physical links

Table 215. Columns

Name	Type	State	Default	Description

id	INTEGER	NOT NULL		Unique physical link id
description	VARCHAR(255)	NULL		Physical link description
left_object_id	INTEGER	NOT NULL		Rack or interface id form OBJECT_PROPERTIES
left_patch_pannel_id	INTEGER	NOT NULL		Patch panel id form RACKS_PASSIVE_ELEMENTS
left_port_number	INTEGER	NOT NULL		Port number
left_front	CHAR(1)	NOT NULL		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		Rack or interface id form OBJECT_PROPERTIES
right_patch_pannel_id	INTEGER	NOT NULL		Patch panel id form RACKS_PASSIVE_ELEMENTS
right_port_number	INTEGER	NOT NULL		Port number
right_front	CHAR(1)	NOT NULL		Flag that states if connection is form the front or from the back. "1" for the front and "0" for the back connection.

Table 216. Indexes

Name	Type	Fields
physical_links_pkey	UNIQUE	id

POLICY_ACTION_LIST

Event processing policy actions

Table 217. Columns

Name	Type	State	Default	Description
rule_id	INTEGER	NOT NULL		Event processing policy rule id from EVENT_POLICY
action_id	INTEGER	NOT NULL		Action id from ACTIONS
timer_key	VARCHAR(127)	NULL		Timer key
blocking_timer_key	VARCHAR(127)	NULL		Blocking timer key
timer_delay	VARCHAR(127)	NULL		Text that will be converted to delay timer
snooze_time	VARCHAR(127)	NULL		Text that will be converted to snooze timer

Table 218. Indexes

Name	Type	Fields
policy_action_list_pkey	UNIQUE	rule_id,action_id

POLICY_EVENT_LIST

Event processing policy events

Table 219. Columns

Name	Type	State	Default	Description
rule_id	INTEGER	NOT NULL		Rule id from EVENT_POLICY
event_code	INTEGER	NOT NULL		Event id form EVENT_CFG

Table 220. Indexes

Name	Type	Fields
policy_event_list_pkey	UNIQUE	rule_id,event_code

POLICY_PSTORAGE_ACTIONS

Table that links epp with persistent storage

Table 221. Columns

Name	Type	State	Default	Description
rule_id	INTEGER	NOT NULL		Foreign key from EVENT_POLICY table
ps_key	VARCHAR(255)	NOT NULL		Persistent storage key
value	VARCHAR(2000)	NULL		Value that should be set for persistent storage entry
action	CAHR(1)	NOT NULL		Action that should be done on persistent storage entry 1 for set, 2 for delete

Table 222. Indexes

Name	Type	Fields
policy_pstorage_actions_pkey	UNIQUE	rule_id,ps_key,action

POLICY_SOURCE_LIST

Event processing policy source objects

Table 223. Columns

Name	Type	State	Default	Description
rule_id	INTEGER	NOT NULL		Rule id from EVENT_POLICY

object_id	INTEGER	NOT NULL		Object id from OBJECT_PROPERTIES
exclusion	CHAR(1)	NOT NULL		1 if current entry is an exclusion entry

Table 224. 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

Table 225. Columns

Name	Type	State	Default	Description
rule_id	INTEGER	NOT NULL		Rule id from EVENT_POLICY
timer_key	VARCHAR(127)	NOT NULL		Timer key from SCHEDULED_TASKS `task_key`

Table 226. Indexes

Name	Type	Fields
policy_timer_cancellation_list_pkey	UNIQUE	rule_id,timer_key

POLLABLE_OBJECTS

This table contains all objects that have polls.

Table 227. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Rack id from OBJECT_PROPERTIES
config_poll_timestamp	INTEGER	NOT NULL		Configuration poll UNIX timestamp
instance_poll_timestamp	INTEGER	NOT NULL		Configuration poll UNIX timestamp

Table 228. Indexes

Name	Type	Fields
pollable_objects_pkey	UNIQUE	id

PORT_LAYOUTS

List of possible port layout options

Table 229. Columns

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

numbering_scheme	CHAR(1)	NOT NULL		Numbering scheme
				• 0 - port layout not known to driver
				• 1 - custom layout, driver defines location of each port
				• 2 - left-to-right, then up-down
				`1 2 3 4`
				`5 6 7 8`
				• 3 - left-to-right, then down-up
				`5 6 7 8`
				`1 2 3 4`
				• 4 - up-down, then left-right
				`1 3 5 7`
				`2 4 6 8`
				• 5 - down-up, then left-right
				`2 4 6 8`
				`1 3 5 7`

row_count	CHAR(1)	NULL		Number of rows
layout_data	VARCHAR(4000)	NULL		Custom layout data. Reserved for future use.

Table 230. Indexes

Name	Type	Fields
port_layouts_pkey	UNIQUE	device_oid

RACKS

Racks

Table 231. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Rack id from OBJECT_PROPERTIES
height	INTEGER	NOT NULL		Rack height in units
top_bottom_num	CHAR(1)	NOT NULL		If rack numbering starts from the top or form the buttom (true/false)

Table 232. Indexes

Name	Type	Fields
racks_pkey	UNIQUE	id

RACKS_PASSIVE_ELEMENTS

Rack passive elements

Table 233. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Passive element unique id
rack_id	INTEGER	NOT NULL		Rack id form RACKS
name	VARCHAR(255)	NULL		Passive element name
type	INTEGER	NOT NULL		Passive element type: • PATCH_PANEL = 0 • FILLER_PANEL = 1 • ORGANISER = 2
position	INTEGER	NOT NULL		Passive element position
orientation	INTEGER	NOT NULL		Passive element orientation: • FILL = 0 • FRONT = 1 • REAR = 2
port_count	INTEGER	NOT NULL		Passive element port count for patch panel
height	INTEGER	NOT NULL		Element height
image_front	VARCHAR(36)	NULL		Front image UUID from IMAGES
image_rear	VARCHAR(36)	NULL		Rear image UUID from IMAGES

Table 234. Indexes

Name	Type	Fields
rack_passive_element_pkey	UNIQUE	id

RAW_DCI_VALUES

Last collected DCI values

Table 235. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		DCI item id form ITEMS
raw_value	VARCHAR(255)	NULL		Raw DCI value
transformed_value	VARCHAR(255)	NULL		Transformed DCI value
last_poll_time	INTEGER	NOT NULL		Last poll time (as UNIX timestamp)
cache_timestamp	INTEGER	NOT NULL		Timestamp of the oldest value in cash for this DCI (as UNIX timestamp)

Table 236. Indexes

Name	Type	Fields
raw_dci_values_pkey	UNIQUE	item_id

RESPONSIBLE_USERS

Object responsible users.

Table 237. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		ID of the object. Reference to OBJECT_PROPERTIES.
user_id	INTEGER	NOT NULL		User id. Reference to USERS
tag	VARCHAR(31)	NOT NULL		User escalation tag

Table 238. Indexes

Name	Type	Fields
responsible_users_pkey	UNIQUE	object_id,user_id

SCHEDULED_TASKS

Scheduled task information

Table 239. Columns

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

taskid	VARCHAR(255)	NULL	☐	Task type. Known types: • Execute.Action • Execute.Script • Maintenance.Enter • Maintenance.Leave • Policy.Deploy • Policy.Uninstall • Alarms.SendSummaryEmail • AgentTunnels.ProcessUnbound
schedule	VARCHAR(127)	NULL	☐	Cron execution schedule - will not be set for one time tasks
params	VARCHAR(1023)	NULL	☐	Scheduled task parameters (script name in case if script execution scheduled, ...)
execution_time	INTEGER	NOT NULL	☐	The time when action should be executed - will be set only for one time task
last_execution_time	INTEGER	NOT NULL	☐	Timestamp of last execution time
flags	INTEGER	NOT NULL	☐	Flags: • 1 - DISABLED • 2 - EXECUTED • 4 - RUNNING • 8 - SYSTEM
owner	INTEGER	NOT NULL	☐	Scheduled task owner from USERS
object_id	INTEGER	NOT NULL	☐	Scheduled task object from OBJECT_PROPERTIES
comments	VARCHAR(255)	NULL	☐	Scheduled task comment. Free format text.
task_key	VARCHAR(255)	NULL	☐	Scheduled task text key

Table 240. Indexes

Name	Type	Fields
scheduled_tasks_pkey	UNIQUE	id

SCRIPT_LIBRARY

Script library

Table 241. Columns

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

Table 242. Indexes

Name	Type	Fields
script_library_pkey	UNIQUE	script_id

SENSORS

Sensors specific information

Table 243. Columns

Name	Type	State	Default	Description
□id	INTEGER	NOT NULL	□	ID of the object. Reference to OBJECT_PROPERTIES.
proxy_node	INTEGER	NOT NULL	□	Sensor proxy node NODES.
mac_address	VARCHAR(16)	NULL	□	MAC address
device_class	INTEGER	NOT NULL	□	Sensor device class: • 0 - SENSOR_CLASS_UNKNOWN • 1 - SENSOR_UPS • 2 - SENSOR_WATER_METER • 3 - SENSOR_ELECTR_METER
vendor	VARCHAR(128)	NULL	□	Vendor
communication_protocol	INTEGER	NOT NULL	□	Communication protocol type: • 0 - SENSOR_PROTO_UNKNOWN • 1 - COMM_LORAWAN • 2 - COMM_DLMS
xml_config	VARCHAR(4000)	NULL	□	Sensor XML configuration. Contain protocol specific configuration
xml_reg_config	VARCHAR(4000)	NULL	□	Sensor XML configuration. Contain protocol connection information
serial_number	VARCHAR(256)	NULL	□	Device serial number

device_address	VARCHAR(256)	NULL	□	Device address
meta_type	VARCHAR(256)	NULL	□	Device meta type
description	VARCHAR(512)	NULL	□	Device description
last_connection_time	INTEGER	NOT NULL	□	Last connection type (as UINIX timestamp)
frame_count	INTEGER	NOT NULL	□	Frame count (zero when no info)
signal_strenght	INTEGER	NOT NULL	□	Signal streight (1 when no information)
signal_noise	INTEGER	NOT NULL	□	Signal noise (*10 from origin number)
frequency	INTEGER	NOT NULL	□	Signal frequencty (*10 from origin number)

Table 244. Indexes

Name	Type	Fields
sensors_pkey	UNIQUE	id

SERVER_ACTION_EXECUTION_LOG

Contains log of all executed server actions.

Table 245. Columns

Name	Type	State	Default	Description
□id	BIGINT	NOT NULL	□	Unique identifier.
action_timestamp	INTEGER	NOT NULL	□	UNIX timestamp when action was executed.
action_id	INTEGER	NOT NULL	□	Action id form ACTIONS.
action_name	VARCHAR(63)	NULL	□	Action name form ACTIONS.
channel_name	VARCHAR(63)	NULL	□	Channel name form NOTIFICATION_CHANNELS.
recipient	VARCHAR(2000)	NULL	□	Recipient list.
subject	VARCHAR(2000)	NULL	□	Message subject.
action_data	VARCHAR(2000)	NULL	□	Action data.
event_id	BIGINT	NOT NULL	□	ID of event that triggered this action execution form EVENT_LOG.

event_code	INTEGER	NULL	□	Code of event template that triggered this action execution form EVENT_CFG.
success	CHAR(1)	NULL	□	"1" if message sent successfully and "0" if not.

Table 246. 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

Table 247. Columns

Name	Type	State	Default	Description
□id	INTEGER	NOT NULL	□	Unique agent shared secret identifier
secret	VARCHAR(88)	NULL	□	Agent secret
zone	INTEGER	NOT NULL	□	Zone UIN form ZONES

Table 248. Indexes

Name	Type	Fields
shared_secrets_pkey	UNIQUE	id,zone

SLM_AGREEMENTS

SLA - agreements. Reserved for future use.

Table 249. Columns

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

Table 250. Indexes

Name	Type	Fields
slm_agreements_pkey	UNIQUE	agreement_id

SNMP_COMMUNITIES

List of possible community strings

Table 251. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique comunity id
community	VARCHAR(255)	NULL		SNMP comunity
zone	INTEGER	NOT NULL		Zone id form ZONES

Table 252. Indexes

Name	Type	Fields
snmp_communities_pkey	UNIQUE	id,zone

SNMP_TRAP_CFG

SNMP trap configuration

Table 253. Columns

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

Table 254. Indexes

Name	Type	Fields
snmp_trap_cfg_pkey	UNIQUE	trap_id

SNMP_TRAP_LOG

Extended SNMP trap log

Table 255. Columns

Name	Type	State	Default	Description
trap_id	BIGINT	NOT NULL		Unique trap id
trap_timestamp	INTEGER	NOT NULL		Trap timestamp (UNIX timestamp)
ip_addr	VARCHAR(48)	NOT NULL		Trap source IP address
object_id	INTEGER	NOT NULL		Trap source object id from NODES
trap_oid	VARCHAR(255)	NOT NULL		Trap oid
trap_varlist	TEXT	NULL		Trap variable list
zone_uin	INTEGER	NULL		Zone unique identification number from ZONES

Table 256. 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

Table 257. Columns

Name	Type	State	Default	Description
trap_id	INTEGER	NOT NULL		Trap id from SNMP_TRAP_CFG
parameter	INTEGER	NOT NULL		Parameter sequence number
flags	INTEGER	NOT NULL		Flags: • 0 - BY_OBJECT_ID • 1 - BY_POSITION
snmp_oid	VARCHAR(255)	NULL		SNMP trap oid
description	VARCHAR(255)	NULL		Description

Table 258. Indexes

Name	Type	Fields
snmp_trap_pmap_pkey	UNIQUE	trap_id,parameter

SOFTWARE_INVENTORY

Node software inventory

Table 259. Columns

Name	Type	State	Default	Description
node_id	INTEGER	NOT NULL		ID of the object. Reference to NODES.
name	VARCHAR(255)	NOT NULL		Software name
version	VARCHAR(63)	NOT NULL		Software version
vendor	VARCHAR(63)	NULL		Software version
install_date	INTEGER	NOT NULL		Software installation date (UNIX timestamp)
url	VARCHAR(255)	NULL		Installation URL
description	VARCHAR(255)	NULL		Software description

Table 260. Indexes

Name	Type	Fields
software_inventory_pkey	UNIQUE	node_id,version,name

SSH_CREDENTIALS

Table stores SSH credentials used to discover ssh connections.

Table 261. Columns

Name	Type	State	Default	Description
zone_uin	INTEGER	NOT NULL		Zone UIN form ZONES
id	INTEGER	NOT NULL		Credential identifier
login	VARCHAR(63)	NULL		SSH login
password	VARCHAR(63)	NULL		SSH password
key_id	INTEGER	NULL		SSH key id from SSH_KEYS

Table 262. Indexes

Name	Type	Fields
ssh_credentials_pkey	UNIQUE	zone_uin,id

SSH_KEYS

Table stores SSH keys configuration

Table 263. 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

Table 264. Indexes

Name	Type	Fields
ssh_keys_pkey	UNIQUE	id

SUBNETS

Subnets

Table 265. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		ID of the object. Reference to OBJECT_PROPERTIES.
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 ZONES

Table 266. Indexes

Name	Type	Fields
subnets_pkey	UNIQUE	id

SYSLOG

Stored syslog messages

Table 267. Columns

Name	Type	State	Default	Description
msg_id	BIGINT	NOT NULL		Unique identifier
msg_timestamp	INTEGER	NOT NULL		Syslog message timestamp (as UNIX timestamp)
facility	INTEGER	NOT NULL		Facility
severity	INTEGER	NOT NULL		Severity

source_object_id	INTEGER	NOT NULL		Source object id from NODES
hostname	VARCHAR(127)	NULL		Source object host name
msg_tag	VARCHAR(32)	NULL		Syslog message tag
msg_text	TEXT	NULL		Syslog message text
zone_uin	INTEGER	NULL		Zone unique identification number from ZONES

Table 268. Indexes

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

TDATA_<NODE_ID>

Contains historical values for table DCIs for the node. Table name is dynamic, <NODE_ID> is replaced by actuall node id (e.g. "TDATA_100"). The table is populated only if single table performance data is disabled. Not used when timescale is enabled.

Table 269. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from DC_TABLES
tdata_timestamp	INTEGER	NOT NULL		Unix time stamp
tdata_value	TEXT	NULL		Collected value.

Table 270. Indexes

Name	Type	Fields
idx_tdata_<NODE_ID>	NORMAL	item_id,tdata_timestamp

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.

Table 271. Columns

Name	**Type**	**State**	**Default**	**Description**
item_id	INTEGER	NOT NULL		Item id from DC_TABLES
tdata_timestamp	INTEGER	NOT NULL		Unix time stamp for collected value

Name	Type	State	Default	Description
tdata_value	TEXT	NULL		Collected value.

Table 272. Indexes

Name	Type	Fields
tdata_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.

Table 273. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from DC_TABLES
tdata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
tdata_value	TEXT	NULL		Collected value.

Table 274. Indexes

Name	Type	Fields
tdata_sc_7_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.

Table 275. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from DC_TABLES
tdata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
tdata_value	TEXT	NULL		Collected value.

Table 276. Indexes

Name	Type	Fields
tdata_sc_30_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.

Table 277. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from DC_TABLES
tdata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
tdata_value	TEXT	NULL		Collected value.

Table 278. Indexes

Name	Type	Fields
tdata_sc_90_key	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.

Table 279. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from DC_TABLES
tdata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
tdata_value	TEXT	NULL		Collected value.

Table 280. Indexes

Name	Type	Fields
tdata_sc_180_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.

Table 281. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from DC_TABLES

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

Table 282. 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.

Table 283. Columns

Name	Type	State	Default	Description
item_id	INTEGER	NOT NULL		Item id from DC_TABLES
tdata_timestamp	TIMESTAMPTZ	NOT NULL		Unix time stamp for collected value
tdata_value	TEXT	NULL		Collected value.

Table 284. Indexes

Name	Type	Fields
tdata_sc_other_key	NORMAL	item_id,tdata_timestamp

TEMPLATES

Data collection templates

Table 285. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique identifier

Table 286. Indexes

Name	Type	Fields
templates_pkey	UNIQUE	id

THRESHOLDS

Threshold checking rules

Table 287. Columns

Name	Type	State	Default	Description
threshold_id	INTEGER	NOT NULL		Threshold unique identifier
item_id	INTEGER	NOT NULL		Item id from ITEMS
sequence_number	INTEGER	NOT NULL		Rule sequence number
fire_value	VARCHAR(255)	NULL		Fire value
rearm_value	VARCHAR(255)	NULL		Rearm value (not used)
check_function	INTEGER	NOT NULL		Threshold functions: • 0 - F_LAST • 1 - F_AVERAGE • 2 - F_DEVIATION • 3 - F_DIFF • 4 - F_ERROR • 5 - F_SUM • 6 - F_SCRIPT
check_operation	INTEGER	NOT NULL		Threshold operations: • 0 - OP_LE • 1 - OP_LE_EQ • 2 - OP_EQ • 3 - OP_GT_EQ • 4 - OP_GT • 5 - OP_NE • 6 - OP_LIKE • 7 - OP_NOTLIKE
sample_count	INTEGER	NOT NULL		Number of samples
script	TEXT	NULL		NXSL comparison script
event_code	INTEGER	NOT NULL		Event conde to fire in case of threshold violation from EVENT_CFG
rearm_event_code	INTEGER	NOT NULL		Event conde to fire in case of threshold rearm from EVENT_CFG
repeat_interval	INTEGER	NOT NULL		Event generation repeat interval
current_state	INTEGER	NOT NULL		Current threshold state (reach or not)
current_severity	INTEGER	NOT NULL		Current severity

match_count	INTEGER	NOT NULL		Threshold match count
last_event_timestamp	INTEGER	NOT NULL		Last generated event timestamp (as UNIX timestamp)
state_before_maint	CHAR(1)	NOT NULL		Threshold state before maintenance
last_checked_value	VARCHAR(255)	NULL		Last value chacked against threshold value
last_event_message	VARCHAR(2000)	NULL		Last generated threshold event message

Table 288. 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

Table 289. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		Object id from OBJECT_PROPERTIES
trusted_object_id	VARCHAR(63)	NOT NULL		Object id from OBJECT_PROPERTIES

Table 290. Indexes

Name	Type	Fields
trusted_objects_pkey	UNIQUE	object_id,trusted_object_id

TWO_FACTOR_AUTHENTICATION_BINDINGS

Two factor authentication method configuration.

Table 291. Columns

Name	Type	State	Default	Description
user_id	INTEGER	NOT NULL		User id form USERS
name	VARCAHR(63)	NULL		Driver name form TWO_FACTOR_AUTHENTICATION_METHODS

configuration	TEXT	NULL	□	Configuration

Table 292. Indexes

Name	Type	Fields
two_factor_auth_methods_pkey	UNIQUE	user_id,name

TWO_FACTOR_AUTHENTICATION_METHODS

Two factor authentication method configuration.

Table 293. Columns

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

Table 294. Indexes

Name	Type	Fields
two_factor_auth_methods_pkey	UNIQUE	name

USER_AGENT_NOTIFICATIONS

User agent notifications current and logs

Table 295. Columns

Name	Type	State	Default	Description
□id	INTEGER	NOT NULL	□	User agent notification id
message	VARCHAR(1023)	NULL	□	Message
objects	VARCHAR(1023)	NOT NULL	□	Coma separaed object id list from OBJECT_PROPERTIES
start_time	INTEGER	NOT NULL	□	Message display start time as unix timestamp. 0 - in case if one time notification
end_time	INTEGER	NOT NULL	□	Message display end time as unix timestamp. 0 - in case if one time notification
recall	CHAR(1)	NOT NULL	□	Flag, that represents if message is recalled

on_startup	CHAR(1)	NOT NULL		Flag, that represents if message is startup message
creation_time	INTEGER	NOT NULL		Notification creation time as unix timestamp.
created_by	INTEGER	NOT NULL		Creator id form USERS

Table 296. Indexes

Name	Type	Fields
user_agent_notifications_pkey	UNIQUE	id

USER_GROUP_MEMBERS

Users and group relationships

Table 297. Columns

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

Table 298. Indexes

Name	Type	Fields
user_group_members_pkey	UNIQUE	group_id,user_id

USER_GROUPS

System user groups

Table 299. Columns

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

flags	INTEGER	NOT NULL	□	Flags: • 0x0001 - UF_MODIFIED • 0x0002 - UF_DELETED • 0x0004 - UF_DISABLED • 0x0008 - UF_CHANGE_PASSWORD • 0x0010 - UF_CANNOT_CHANGE_PASSWORD • 0x0020 - UF_INTRUDER_LOCKOUT • 0x0040 - UF_PASSWORD_NEVER_EXPIRES • 0x0080 - UF_LDAP_USER • 0x0100 - UF_SYNC_EXCEPTION • 0x0200 - UF_CLOSE_OTHER_SESSIONS
description	VARCHAR(255)	NULL	□	Description
ldap_dn	TEXT	NULL	□	LDAP dn
ldap_unique_id	VARCHAR(64)	NULL	□	LDAP unique id if field set
created	INTEGER	NOT NULL	□	Group creation time (UNIX timestamp)

Table 300. Indexes

Name	Type	Fields
user_groups_pkey	UNIQUE	id

USER_PROFILES

User variables

Table 301. Columns

Name	Type	State	Default	Description
□user_id	INTEGER	NOT NULL	□	user id form USERS
□var_name	VARCHAR(255)	NOT NULL	□	Variable name
var_value	TEXT	NOT NULL	□	Variable value

Table 302. Indexes

Name	Type	Fields
user_profiles_pkey	UNIQUE	user_id,var_name

USERDB_CUSTOM_ATTRIBUTES

Custom attributes for user database objects

Table 303. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		Object id form USERS
attr_name	VARCHAR(255)	NOT NULL		Attribute name
attr_value	TEXT	NOT NULL		Attribute value

Table 304. Indexes

Name	Type	Fields
userdb_custom_attributes_pkey	UNIQUE	object_id,attr_name

USERS

System users

Table 305. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		User id
guid	VARCHAR(36)	NOT NULL		User guid
name	VARCHAR(63)	NOT NULL		Login name
password	VARCHAR(127)	NOT NULL		Hashed password
system_access	BIGINT	NOT NULL		Bit-mask of system access rights
flags	INTEGER	NOT NULL		Account flags (locked, password never expire etc.)
full_name	VARCHAR(127)	NULL		Full name
description	VARCHAR(255)	NULL		Description
grace_logins	INTEGER	NOT NULL		Number of grace logins
auth_method	INTEGER	NOT NULL		Authentication method: • 0 - AUTH_NETXMS_PASSWORD • 1 - AUTH_RADIUS • 2 - AUTH_CERTIFICATE • 3 - AUTH_CERT_OR_PASSWD • 4 - AUTH_CERT_OR_RADIUS

cert_mapping_method	INTEGER	NOT NULL	☐	Certifiacte mapping method: • 0 - USER_MAP_CERT_BY_SUBJECT • 1 - USER_MAP_CERT_BY_PUBKEY • 2 - USER_MAP_CERT_BY_CN
cert_mapping_data	TEXT	NULL	☐	Certificate mapping data
auth_failures	INTEGER	NOT NULL	☐	Number of authentication failures
last_passwd_change	INTEGER	NOT NULL	☐	Date of last password change (UNIX timestamp)
min_passwd_length	INTEGER	NOT NULL	☐	Minimal password lenght
disabled_until	INTEGER	NOT NULL	☐	Timesamp till what date user is disabled (UNIX timestamp)
last_login	INTEGER	NOT NULL	☐	Last login time (UNIX timestamp)
password_history	TEXT	NULL	☐	Password history
ldap_dn	TEXT	NULL	☐	LDAP dn
ldap_unique_id	VARCHAR(64)	NULL	☐	LDAP unique id if field set
created	INTEGER	NOT NULL	☐	User creation time (UNIX timestamp)
email	VARCHAR(127)	NULL	☐	E-mail
phone_number	VARCHAR(63)	NULL	☐	Phone number

Table 306. Indexes

Name	Type	Fields
users_pkey	UNIQUE	id

USM_CREDENTIALS

Default SNMP v3 USM credentials

Table 307. Columns

Name	Type	State	Default	Description
☐id	INTEGER	NOT NULL	☐	SNMP v3 USM credential unique identifier
user_name	VARCHAR(255)	NOT NULL	☐	SNMP v3 USM username
auth_method	INTEGER	NOT NULL	☐	SNMP v3 USM authentication method
priv_method	INTEGER	NOT NULL	☐	SNMP v3 USM encryption method
auth_password	VARCHAR(255)	NULL	☐	SNMP v3 USM authentication password

priv_password	VARCHAR(255)	NULL		SNMP v3 USM encryption password
zone	INTEGER	NOT NULL		Zone id form ZONES
comments	VARCHAR(255)	NULL		Comment to credential entry

Table 308. Indexes

Name	Type	Fields
usm_credentials_pkey	UNIQUE	id,zone

VERSIONABLE_OBJECT

Versionning table for objects

Table 309. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		ID of the object. Reference to OBJECT_PROPERTIES.
version	INTEGER	NOT NULL		Object version

Table 310. Indexes

Name	Type	Fields
versionable_object_pkey	UNIQUE	object_id

VPN_CONNECTOR_NETWORKS

VPN connector networks

Table 311. Columns

Name	Type	State	Default	Description
vpn_id	INTEGER	NOT NULL		VPN unique id from OBJECT_PROPERTIES
network_type	INTEGER	NOT NULL		Network type • 0 - local • 1 - remote
ip_addr	VARCHAR(48)	NOT NULL		IP address
ip_netmask	INTEGER	NOT NULL		Network mask

Table 312. Indexes

Name	Type	Fields
vpn_connector_networks_pkey	UNIQUE	vpn_id,ip_addr

VPN_CONNECTORS

VPN connectors

Table 313. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Vpn id form VPN_CONNECTOR_NETWORKS
node_id	INTEGER	NOT NULL		Node id from NODES
peer_gateway	INTEGER	NOT NULL		Peer gateway. Id form NODES

Table 314. Indexes

Name	Type	Fields
vpn_connectors_pkey	UNIQUE	id

WEBSVC_DEFINITIONS

Web service definition table

Table 315. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Web service id
guid	VARCHAR(36)	NOT NULL		Web service GUID
name	VARCHAR(63)	NOT NULL		Web service name
url	VARCHAR(4000)	NULL		Web service URL
auth_type	INTEGER	NOT NULL		Authentication type: • 0 - NONE • 1 - BASIC • 2 - DIGEST • 3 - NTLM • 4 - BEARER • 5 - ANY • 6 - ANYSAFE
login	VARCHAR(255)	NULL		Web service login name
password	VARCHAR(255)	NULL		Web service password
password	VARCHAR(255)	NULL		Web service password
cache_retention_time	INTEGER	NOT NULL		Cache retention time

request_timeout	INTEGER	NOT NULL		Request timeout time
description	VARCHAR(2000)	NULL		Web service description
flags	INTEGER	NOT NULL		Web service bit flags: • 1 - Verify certificate • 2 - Verify host
http_request_method	INTEGER	NOT NULL		HTTP request method: • GET = 0 • POST = 1 • PUT = 2 • DELETE = 3 • PATCH = 4
request_data	INTEGER	NULL		Request data

Table 316. Indexes

Name	Type	Fields
websvc_definitions_pkey	UNIQUE	id

WEBSVC_HEADERS

Web service header definition table

Table 317. Columns

Name	Type	State	Default	Description
websvc_id	INTEGER	NOT NULL		Web service id form WEBSVC_DEFINITIONS.
name	VARCHAR(63)	NOT NULL		Header name
value	VARCHAR(2000)	NULL		Header content

Table 318. 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

Table 319. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Unique agent shared secret identifier
port	INTEGER	NOT NULL		Agent secret
zone	INTEGER	NOT NULL		Zone UIN form ZONES
tag	VARCAHR(15)	NOT NULL		Port tag: • snmp • ssh

Table 320. Indexes

Name	Type	Fields
well_known_ports_pkey	UNIQUE	id,zone

WIN_EVENT_LOG

Windows event log

Table 321. Columns

Name	Type	State	Default	Description
id	BIGINT	NOT NULL		Record unique id.
event_timestamp	INTEGER	NOT NULL		Unix time stamp of event when it came to server.
node_id	INTEGER	NOT NULL		Source node of the event. Reference to NODES.
zone_uin	INTEGER	NOT NULL		Zone unique identification number from ZONES.
origin_timestamp	INTEGER	NOT NULL		Unix time stamp of event when it was created on windows node.
log_name	VARCHAR(63)	NULL		Alarm key.
event_source	VARCHAR(127)	NULL		Source of the windows event.
event_severity	INTEGER	NOT NULL		Windows event severity.
event_code	INTEGER	NOT NULL		Windows event code.
message	VARCHAR(2000)	NULL		Windows event message.
raw_data	TEXT	NULL		Raw Windows event data.

Table 322. 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

Table 323. Columns

Name	Type	State	Default	Description
object_id	INTEGER	NOT NULL		Zone id from ZONES
proxy_node	INTEGER	NOT NULL		Proxy node id from NODES

Table 324. Indexes

Name	Type	Fields
zone_proxies_pkey	UNIQUE	object_id,proxy_node

ZONES

Zones

Table 325. Columns

Name	Type	State	Default	Description
id	INTEGER	NOT NULL		Zone id from OBJECT_PROPERTIES
zone_guid	INTEGER	NOT NULL		Zone GUID

Table 326. Indexes

Name	Type	Fields
zones_pkey	UNIQUE	id