



# Dr.WEB

Enterprise Security Suite

## Dr.Web Server Database Structure



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## **Doctor Web**

Doctor Web develops and distributes Dr.Web information security solutions which provide efficient protection from malicious software and spam.

Doctor Web customers can be found among home users from all over the world and in government enterprises, small companies and nationwide corporations.

Dr.Web antivirus solutions are well known since 1992 for continuing excellence in malware detection and compliance with international information security standards.

State certificates and awards received by the Dr.Web solutions, as well as the globally widespread use of our products are the best evidence of exceptional trust to the company products.

**We thank all our customers for their support and devotion to the Dr.Web products!**



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## Chapter 1: Introduction

### 1.1. Conventions

#### Conventions

The following symbols and text conventions are used in this guide:

Convention	Comment
	Important note or instruction.
	Warning about possible errors or important notes to which you should pay special attention.
<i>Anti-virus network</i>	A new term or an accent on a term in descriptions.
<IP-address>	Placeholders.
<b>Save</b>	Names of buttons, windows, menu items and other program interface elements.
CTRL	Keyboard keys names.
C:\Windows\	Names of files and folders, code examples.
<a href="#">Appendix A</a>	Cross-references on the document chapters or internal hyperlinks to web pages.

### 1.2. About Manual

Current document describes internal structure of the Dr.Web Server database.

The Manual is provided also within Dr.Web Enterprise Security Suite product and can be opened from Dr.Web Security Control Center.

Before reading this document, make sure you have the latest version of the corresponding Manuals for your product version. The Manual is constantly updated and the current version can always be found at the official web site of Doctor Web at <https://download.drweb.com/doc/>.



## Chapter 2: Dr.Web Server Database

### 2.1. Introduction

#### 2.1.1. About Database

The single database is connected to the central protection Server and stores statistic data on anti-virus network events, settings of the Server itself, parameters of protected stations and anti-virus components, installed on protected stations.

You can use the following types of databases:

**Embedded database.** The SQLite3 database that is embedded into the central protection Server directly is provided.

**External database.** Inbuilt drivers for connecting the following databases are provided:

- MySQL,
- Oracle,
- PostgreSQL (including Postgres Pro),
- ODBC driver to connect other databases such as Microsoft SQL Server/Microsoft SQL Server Express.

You can use any database that corresponds to your demands. Your choice should be based on the needs that must be satisfied by the data store, such as: capability to service the anti-virus network of corresponding size, features of database software maintenance, administration capabilities provided by the database itself and also requirements and standards which are accepted for use in your company.

### Database Version

Version of the database structure: 473.

#### To find the version of the database of your Server

1. Open the Control Center of your Server.
2. Go to the **Administration** → **SQL console** section.
3. Enter the following query:

```
SELECT dbver FROM dbstruct;
```

4. Click **Execute**.



## Database Subsystems

All tables of Dr.Web Server database can be divided on the following subsystems:

### Database Metadata

Metadata that describe the database model (physical and partly logical model in the `tables_refs` table).

### Notifications

Existing notifications descriptions and variables used.

Templates.

Notifications send configuration, assigning them to administrators.

Web console notifications.

Notifications of all types that are waiting to be sent.

### Administrators

Administrators and groups of administrators, their permissions.

Messages sent by administrators to stations and their templates.

### License Manager

License keys assigned at the Server.

Propagations of licences between stations, groups, policies, neighbor Servers.

Licenses usage reports.

### Catalogues

Catalogs with frequently repeated data on which other tables are refer.

### Stations and Anti-virus Network Tree

Stations, groups, policies, Proxy servers, their attributes and hierarchy.

### Neighborhood

Interserver connections with neighbor Servers.

### Application Control

Infrastructure of trusted applications generating for the Application Control component: settings, collected applications, intermediate data.

Data of applications catalog received by collecting processes blockings and activity.

### Server Configuration

Dr.Web Server Configuration



## Stations Configuration

Settings of stations and Proxy servers: components configuration, schedule, permissions, updates restrictions.

## Groups Configuration

Settings of station groups and Proxy server groups: components configuration, schedule, permissions, updates restrictions.

## Policies Configuration

Settings of policies: components configuration, schedule, permissions, updates restrictions.

## Other Objects Configuration

Profiles of the Application Control component, their rules and user settings of components.

## Server Events

Events generated by the Server:

- audit log, Task Scheduler, updates;
- messages sent by the administrator to stations;
- for Dr.Web AV-Desk: financial operations.

## Stations Events

Events generated by stations:

- threats detection, errors and scan statistics;
- events of the Application Control component;
- devices blockings;
- the Agent installation and deinstallation;
- log of the Task scheduler on stations;
- stations geolocation.

## Stations Events from Neighbor Server

Events generated by stations on neighbor Servers (similarly).

## Server Status

Current state of the Server subsystems, including news, delayed updates of products.

## Station statuses

Stations state, including:

- abnormally terminated connections;
- installed components and their state (started/stopped), modules and virus databases;
- information on hardware and software, users of stations;
- registered connections of the Agent and the Server;





- quarantine;
- opened user sessions.

### Stations Status from Neighbor Server

State of the neighbor Server stations, including information about hardware and software.

### Other Tables

Other reference and operational data.

## 2.1.2. Examples of Accessing Dr.Web Server Database

Further texts contain examples of SQL queries to PostgreSQL database. Queries to other databases may contain some differences due to the features of the database itself and the subtleties of its use.



The given queries intentionally composed not optimal for improved readability.

The queries do not consider the hierarchy of groups and stations due to the peculiarities of standard SQL tools.

### To appeal the database directly

1. Open the Control Center of your Server.
2. Go to the **Administration** → **SQL console** section.
3. Type the necessary SQL query. Queries examples are given below.
4. Click **Execute**.

## Examples of SQL Queries

1. Find stations with Windows server OS installed and virus databases are older than 2019.07.04-00:00:00 UTC (12.0).

```
SELECT
    stations.name Station,
    groups_list.name OS,
    station_products.crev Bases
FROM
    stations
INNER JOIN groups_list ON groups_list.platform =(
    CAST(stations.lastos AS INTEGER) & ~15728640
)
AND (
    (
        CAST(stations.lastos AS INTEGER) & 2130706560
    ) = 33554560
)
INNER JOIN station_products ON station_products.id = stations.id
```



```
AND station_products.product = '10-drwbases'  
AND station_products.crev < 12020190704000000;
```

2. Find stations that have records with the **High** and **Maximal** severity in the **Anti-virus network** → **Statistics** → **Status** section.

```
SELECT  
    stations.name Station  
FROM  
    stations  
WHERE  
    id IN (  
        SELECT  
            DISTINCT id  
        FROM  
            station_status  
        WHERE  
            severity >= 1342177280  
    );
```

3. Get the correspondence of statuses and the number of stations with these statuses.

```
SELECT  
    code Code,  
    COUNT(code) Num  
FROM  
    (  
        SELECT  
            DISTINCT id,  
            code  
        FROM  
            station_status  
    ) AS t  
GROUP BY  
    Code  
ORDER BY  
    Code;
```

4. Get the top 10 of threats detected from 2019.06.01 to 2019.07.01 on stations included into the group with the '373a9afb-9c9a-4d4d-b9b1-de817b96bcc5' identifier or in any groups nested in it.

```
SELECT  
    cat_virus.str Threat,  
    COUNT(cat_virus.str) Num  
FROM  
    station_infection  
INNER JOIN cat_virus ON cat_virus.id = station_infection.virus  
WHERE  
    station_infection.infectiontime BETWEEN 2019060100000000  
    AND 2019070100000000  
    AND station_infection.id IN (  
        SELECT  
            sid  
        FROM  
            station_groups  
        WHERE  
            gid = '373a9afb-9c9a-4d4d-b9b1-de817b96bcc5'  
            OR gid IN (  
                SELECT
```



```
        child
      FROM
        group_children
      WHERE
        id = '373a9afb-9c9a-4d4d-b9b1-de817b96bcc5'
    )
  )
GROUP BY
  cat_virus.str
ORDER BY
  Num DESC
LIMIT
  10;
```

5. Get the top 10 of infected stations.

```
SELECT
  Station,
  Grp,
  Num
FROM
  (
    SELECT
      stations.id,
      groups_list.id,
      stations.name Station,
      groups_list.name Grp,
      COUNT(stations.id) Num
    FROM
      station_infection
      INNER JOIN stations ON station_infection.id = stations.id
      INNER JOIN groups_list ON groups_list.id = stations.gid
    GROUP BY
      stations.id,
      groups_list.id,
      stations.name,
      groups_list.name
    ORDER BY
      Num DESC
    LIMIT
      10
  ) AS t;
```

6. Remove membership for all stations from user groups that are not primary for these stations.

```
DELETE FROM
  station_groups;
INSERT INTO station_groups(sid, gid)
SELECT
  stations.id,
  groups_list.id
FROM
  stations
  INNER JOIN groups_list ON stations.gid = groups_list.id
  AND groups_list.type NOT IN(1, 4);
```

7. Find object of the anti-virus network that contain the specified domain in the white list of the SplDer Gate component personal settings.



```
SELECT
    stations.name Station
FROM
    station_cfg
    INNER JOIN stations ON stations.id = station_cfg.id
WHERE
    station_cfg.component = 38
    AND station_cfg.name = 'WhiteVirUrlList'
    AND station_cfg.value = 'domain.tld';
SELECT
    groups_list.name Grp
FROM
    group_cfg
    INNER JOIN groups_list ON groups_list.id = group_cfg.id
WHERE
    group_cfg.component = 38
    AND group_cfg.name = 'WhiteVirUrlList'
    AND group_cfg.value = 'domain.tld';
SELECT
    policy_list.name Policy
FROM
    policy_cfg
    INNER JOIN policy_list ON policy_list.id = policy_cfg.id
WHERE
    policy_cfg.component = 38
    AND policy_cfg.name = 'WhiteVirUrlList'
    AND policy_cfg.value = 'domain.tld';
```

8. Get the events of failed logins of administrators to the Control Center with corresponding authorization error codes.

```
SELECT
    admin_activity.login Login,
    admin_activity.address Address,
    activity_data.value ErrorCode,
    admin_activity.createtime EventTimestamp
FROM
    admin_activity
    INNER JOIN activity_data ON admin_activity.record = activity_data.record
WHERE
    admin_activity.oper = 10100
    AND admin_activity.status != 1
    AND activity_data.item = 'Error';
```

9. Find stations under Windows OS without necessary security fixes installed.

```
SELECT
    stations.name Station
FROM
    stations
WHERE
    id NOT IN (
        SELECT
            station_env_kb.id
        FROM
            station_env_kb
            INNER JOIN stations ON stations.id = station_env_kb.id
        WHERE
            (
                CAST(stations.lastos AS INTEGER) & 2130706432
```



```
)= 33554432
AND station_env_kb.name IN (
  SELECT
    id
  FROM
    env_strings
  WHERE
    str IN(
      'KB4012212', 'KB4012213', 'KB4012214',
      'KB4012215', 'KB4012216', 'KB4012217',
      'KB4012598'
    )
)
);
```

## 2.2. Database Tables

The following is a description of the database tables containing the following parameters:

- fields of tables with descriptions;
- list of table indexes, if indexes are present;
- list of links between tables, if links are present.

Links are rules according to which the Server purges outdated and inconsistent information.

Links are described by the following data:

<current_field>	<link_type>	<link_table> . <link_field>
-----------------	-------------	-----------------------------

where:

<current\_field>—identifier of the field in the current table;

<link\_type>—type of link between fields (see below),

<link\_table>—name of the table linked with the current table;

<link\_field>—identifier of the field in the <link\_table>.

The following link types are possible:

Link type	Link description
→	For any record in the current field, can be found a record in the <link_field>, so the value of the <link_field> is equal to the value <current_field> in the current table.
←	For any record in the <link_table>, can be found a record in the current table, so the value of the <link_field> is equal to the value <current_field> in the current table.
↔	Both of the previous conditions are true.



## 2.2.1. Database Metadata

### dbstruct

Meta-data table. Version of the database scheme.

#### Table fields

Field name	Field type	Description
dbver	INTEGER	database version

#### Table indexes

Index name	Index type	Fields list
dbstruct_pkey	table primary key	dbver

### tables\_fields

Meta-data table. Information on the fields of database tables.

#### Table fields

Field name	Field type	Description
fieldno	INTEGER NOT NULL	field number
fieldtype	INTEGER NOT NULL	field type: 0 - string, 1 - number, 2 - signed
maxval	NUMERIC(19) NOT NULL	field maximal value (integer) or length
tabname	VARCHAR(128) NOT NULL	table name
fieldname	VARCHAR(128) NOT NULL	field name
attributes	NUMERIC(19) NOT NULL	field attributes as a bit flags, see above
default_value	VARCHAR(256) DEFAULT ''	field default value
comments	VARCHAR(256) DEFAULT ''	field comments



## Table indexes

Index name	Index type	Fields list
tables_fields_0001	simple table index	tablename, fieldname
tables_fields_pkey	table primary key	tablename, fieldno

## tables\_indices

Meta-data table. The list on indexes and primary keys in the database tables.

## Table fields

Field name	Field type	Description
indexname	VARCHAR(128) NOT NULL	index name
tablename	VARCHAR(128) NOT NULL	name of an index table
fields	VARCHAR(256) NOT NULL	fields names separated by comma
attrs	INTEGER NOT NULL	index type, see comments above

## Table indexes

Index name	Index type	Fields list
tables_indices_pkey	table primary key	indexname

## tables\_list

Meta-data table. The list of all database tables.

## Table fields

Field name	Field type	Description
priority	INTEGER NOT NULL	backup priority
subsystem	INTEGER NOT NULL	table subsystem



Field name	Field type	Description
tablename	VARCHAR(128) NOT NULL	table name
description	VARCHAR(256) DEFAULT ""	tables descriptipon

### Table indexes

Index name	Index type	Fields list
tables_list_0001	simple table index	priority
tables_list_pkey	table primary key	tablename

## tables\_refs

Meta-data table. References between tables fields.

### Table fields

Field name	Field type	Description
ref_tbl	VARCHAR(128) NOT NULL	reference table name
ref_fld	VARCHAR(128) NOT NULL	reference field name
src_tbl	VARCHAR(128) NOT NULL	source table name
src_fld	VARCHAR(128) NOT NULL	source field name
attrs	INTEGER NOT NULL	reference attribute as a bitmask (1 - delete dangling references, 2 - delete unused records)
def_val	VARCHAR(256) DEFAULT ""	value for valid undef refernce

### Table indexes

Index name	Index type	Fields list
tables_refs_0001	simple table index	src_tbl
tables_refs_pkey	table primary key	ref_tbl, ref_fld, src_tbl, src_fld





## 2.2.2. Notifications

### alert\_console

Administrator notifications sent by Web console method.

#### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	message UUID
subject	INTEGER NOT NULL	message subject
body	INTEGER NOT NULL	message body
read_until	NUMERIC(17) DEFAULT '0'	message will be deleted after this time
admin	VARCHAR(36) NOT NULL	admin UUID
iread	INTEGER NOT NULL	read flag (0 - unread, 1 - read, 2 - save)
gentime	NUMERIC(17) DEFAULT '0'	message generation time
station	VARCHAR(36) DEFAULT ''	station ID for an event generated for specific station
id_alert	INTEGER NOT NULL	message type

#### Table indexes

Index name	Index type	Fields list
alert_console_0001	simple table index	admin, iread, id_alert
alert_console_0002	simple table index clustering index	read_until
alert_console_pkey	table primary key	id



### Table references

Field name	Direction	Referenced table field
admin	→	admins.id
body	↔	cat_alert_body.id
subject	↔	cat_alert_subj.id

## alert\_group

Accordance between administrator notifications and their types.

### Table fields

Field name	Field type	Description
id_group	INTEGER NOT NULL	group ID
id_alert	INTEGER NOT NULL	notification ID

### Table indexes

Index name	Index type	Fields list
alert_group_pkey	table primary key clustering index	id_group, id_alert

### Table references

Field name	Direction	Referenced table field
id_group	→	alert_group_list.id_group



## alert\_group\_list

The list of administrator notifications types.

### Table fields

Field name	Field type	Description
id_group	INTEGER NOT NULL	group ID
name	VARCHAR(4000) DEFAULT ''	group name in English

### Table indexes

Index name	Index type	Fields list
alert_group_list_pkey	table primary key	id_group

## alert\_list

The list of administrator notifications.

### Table fields

Field name	Field type	Description
id_alert	INTEGER NOT NULL	notification ID
name	VARCHAR(4000) DEFAULT ''	notification name in English
severity	INTEGER DEFAULT '0'	notification severity

### Table indexes

Index name	Index type	Fields list
alert_list_pkey	table primary key	id_alert



## alert\_mobile

Administrator notifications sent by push method to Dr.Web Mobile Control Center.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	message UUID
subject	INTEGER NOT NULL	message subject
body	INTEGER NOT NULL	message body
read_until	NUMERIC(17) DEFAULT '0'	message will be deleted after this time
admin	VARCHAR(36) NOT NULL	admin UUID
iread	INTEGER DEFAULT '0'	read flag (0 - unread, 1 - read, 2 - save)
gentime	NUMERIC(17) DEFAULT '0'	message generation time
station	VARCHAR(36) DEFAULT ''	station ID to generate event for specific station
id_alert	INTEGER DEFAULT '0'	message type
device	INTEGER NOT NULL	device ID

### Table indexes

Index name	Index type	Fields list
alert_mobile_0001	simple table index	admin, device
alert_mobile_0002	simple table index clustering index	read_until
alert_mobile_pkey	table primary key	id

### Table references

Field name	Direction	Referenced table field
admin	→	admins.id



Field name	Direction	Referenced table field
body	↔	cat_alert_body.id
device	↔	cat_alert_dev.id
subject	↔	cat_alert_subj.id

## alert\_settings

Sets of administrator notifications settings.

### Table fields

Field name	Field type	Description
settings_set	VARCHAR(36) NOT NULL	settings set
name	VARCHAR(45) NOT NULL	setting name
value	TEXT DEFAULT "	setting value

### Table indexes

Index name	Index type	Fields list
alert_settings_pkey	table primary key clustering index	settings_set, name

### Table references

Field name	Direction	Referenced table field
settings_set	→	alert_settings_sets.settings_set



## alert\_settings\_sets

Administrator notifications settings.

### Table fields

Field name	Field type	Description
<code>id_alert</code>	INTEGER NOT NULL	notification ID
<code>admin</code>	VARCHAR(36) NOT NULL	UUID of the administrator to receive the notification
<code>method</code>	INTEGER NOT NULL	send method (0 - email, 1 - windows message, 2 - web console, 3 - SNMP protocol , 4 - Agent protocol)
<code>station_group</code>	VARCHAR(36) DEFAULT 'none' NOT NULL	station group ID
<code>settings_set</code>	VARCHAR(36) NOT NULL	settings set UUID, see <code>alert_settings.settings_set</code>

### Table indexes

Index name	Index type	Fields list
<code>alert_settings_sets_pkey</code>	table primary key	<code>id_alert</code> , <code>admin</code> , <code>method</code> , <code>station_group</code> , <code>settings_set</code>

### Table references

Field name	Direction	Referenced table field
<code>admin</code>	→	<code>admins.id</code>
<code>id_alert</code>	→	<code>alert_list.id_alert</code>



## alert\_subscribers

Administrators who are subscribed to notifications about events on station groups, and groups of tracked stations (`none` for all groups).

### Table fields

Field name	Field type	Description
<code>id_alert</code>	INTEGER NOT NULL	notification ID
<code>admin</code>	VARCHAR(36) NOT NULL	UUID of the administrator to receive the notification
<code>station_group</code>	VARCHAR(36) DEFAULT 'none' NOT NULL	station group ID, see <code>station_groups</code>

### Table indexes

Index name	Index type	Fields list
<code>alert_subscribers_pkey</code>	table primary key clustering index	<code>admin</code> , <code>id_alert</code> , <code>station_group</code>

### Table references

Field name	Direction	Referenced table field
<code>admin</code>	→	<code>admins.id</code>
<code>id_alert</code>	→	<code>alert_list.id_alert</code>
<code>station_group</code>	→	<code>groups_list.id</code>



## alert\_templates

Templates of administrator notifications.

### Table fields

Field name	Field type	Description
id_alert	INTEGER NOT NULL	notification ID
method	INTEGER NOT NULL	send method (0 - email, 1 - windows message, 2 - web console, 3 - SNMP protocol , 4 - Agent protocol)
admin	VARCHAR(36) DEFAULT 'none' NOT NULL	UUID of the administrator to receive the notification
language	VARCHAR(2) NOT NULL	template language
body	CLOB NOT NULL	template body

### Table indexes

Index name	Index type	Fields list
alert_templates_pkey	table primary key	id_alert, method, admin, language

### Table references

Field name	Direction	Referenced table field
admin	→	admins.id





## alert\_unsent

Unsent administrator notifications.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	record UUID (to access unique record)
id_alert	INTEGER NOT NULL	notification ID
settings_set	VARCHAR(36) DEFAULT ''	settings set UUID, see alert_settings.settings_set
id_binding	VARCHAR(36) DEFAULT ''	bound variables set UUID, see alert_unsent_bindings
admin	VARCHAR(36) DEFAULT ''	UUID of the administrator to receive the notification
time_to_live	INTEGER DEFAULT '10'	send downcount
next_try	NUMERIC(17) NOT NULL	next retry time
method	INTEGER NOT NULL	send method (0 - email, 1 - windows message, 2 - web console, 3 - SNMP protocol , 4 - Agent protocol)
address	VARCHAR(4000) DEFAULT ''	method specific recipient
error	CLOB DEFAULT ''	error due to which the message was not sent
sender	VARCHAR(36) DEFAULT ''	ID of the Server that sent the message

### Table indexes

Index name	Index type	Fields list
alert_unsent_0001	simple table index	next_try
alert_unsent_0002	simple table index	id_binding
alert_unsent_pkey	table primary key	id



## Table references

Field name	Direction	Referenced table field
admin	→	admins.id
id_alert	→	alert_list.id_alert
id_binding	←	alert_unsent_bindings.id

## alert\_unsent\_bindings

Values of variables in unsent administrator notifications.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	bindings UUID
name	VARCHAR(45) NOT NULL	variable name
value	CLOB DEFAULT ""	variable value

### Table indexes

Index name	Index type	Fields list
alert_unsent_bindings_pkey	table primary key clustering index	id, name

## alert\_variables

The lists of available variables in administrator notifications.

### Table fields

Field name	Field type	Description
id_alert	INTEGER NOT NULL	notification ID



Field name	Field type	Description
var_name	VARCHAR(45) NOT NULL	variable name

### Table indexes

Index name	Index type	Fields list
alert_variables_pkey	table primary key clustering index	id_alert, var_name



## 2.2.3. Administrators

### admin\_attributes

Arbitrary attributes of the Server administrators accounts.

#### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	admin UUID
attribute	INTEGER NOT NULL	attribute number
sequenceno	INTEGER NOT NULL	attribute sequence number
svalue	TEXT DEFAULT ''	attribute string value
nvalue	NUMERIC(19) DEFAULT '0'	attribute numeric value

#### Table indexes

Index name	Index type	Fields list
admin_attributes_pkey	table primary key clustering index	id, attribute, sequenceno

#### Table references

Field name	Direction	Referenced table field
id	→	admins.id



## admin\_flat\_objects

Cache of objects available to administrators according their permission.

### Table fields

Field name	Field type	Description
id_admin	VARCHAR(36) NOT NULL	admin UUID
nright	INTEGER NOT NULL	numeric code for administrative permission
id_object	VARCHAR(36) NOT NULL	administrated object ID

### Table indexes

Index name	Index type	Fields list
admin_flat_objects_pkey	table primary key clustering index	id_admin, nright, id_object

### Table references

Field name	Direction	Referenced table field
id_admin	→	admins.id

## admin\_group\_objects

Objects of permissions for administrator groups.

### Table fields

Field name	Field type	Description
id_group	VARCHAR(36) NOT NULL	group UUID
nright	INTEGER NOT NULL	numeric code for administrative permission
id_object	VARCHAR(36) NOT NULL	administrated object ID



## Table indexes

Index name	Index type	Fields list
admin_group_objects_pkey	table primary key clustering index	id_group, nright, id_object

## admin\_group\_parent

Parent groups of administrator groups.

## Table fields

Field name	Field type	Description
id_group	VARCHAR(36) NOT NULL	group UUID
id_parent	VARCHAR(36) NOT NULL	parent group UUID
modtime	NUMERIC(17) DEFAULT '0'	last modification timestamp
inherit	INTEGER DEFAULT '1'	specifies whether group inherits parent attributes (1 for true)

## Table indexes

Index name	Index type	Fields list
admin_group_parent_0001	simple table index	id_parent
admin_group_parent_pkey	table primary key	id_group

## admin\_group\_rights

Permissions for administrator groups.

## Table fields

Field name	Field type	Description
id_group	VARCHAR(36) NOT NULL	group UUID



Field name	Field type	Description
nright	INTEGER NOT NULL	numeric code for administrative permission
value	INTEGER DEFAULT '0'	value for administrative permission
modtime	NUMERIC(17) DEFAULT '0'	last modification timestamp

### Table indexes

Index name	Index type	Fields list
admin_group_rights_pkey	table primary key	id_group, nright

## admin\_groups

Groups of the Server administrators.

### Table fields

Field name	Field type	Description
id_group	VARCHAR(36) NOT NULL	group UUID
name	TEXT DEFAULT ''	human-readable name
descr	TEXT DEFAULT ''	human-readable description
modtime	NUMERIC(17) DEFAULT '0'	last modification timestamp

### Table indexes

Index name	Index type	Fields list
admin_groups_pkey	table primary key	id_group



## admin\_msg\_lst

Content of messages sent by administrator to stations.

### Table fields

Field name	Field type	Description
mid	VARCHAR(36) NOT NULL	message UUID
msg_body	TEXT DEFAULT ''	message body
msg_options	INTEGER DEFAULT '0'	message options, see db-admin-msg-options .ds/.h
logo_url	TEXT DEFAULT ''	URL to open when clicking a user logo
logo_text	TEXT DEFAULT ''	text to display next to a user logo
logo_file	CLOB DEFAULT ''	path to a user logo file
link_url	TEXT DEFAULT ''	URL of a user link
link_text	TEXT DEFAULT ''	text to display as a name of a user link
created	NUMERIC(17) NOT NULL	message creation time

### Table indexes

Index name	Index type	Fields list
admin_msg_lst_pkey	table primary key	mid

## admin\_msg\_templates

Templates of messages sent by administrator to stations.

### Table fields

Field name	Field type	Description
template_id	VARCHAR(36) NOT NULL	template UUID
msg_body	TEXT DEFAULT ''	message body





Field name	Field type	Description
msg_options	INTEGER DEFAULT '0'	message options, see db-admin-msg-options.ds/.h
logo_url	TEXT DEFAULT ''	URL to open when clicking a user logo
logo_text	TEXT DEFAULT ''	text to display next to a user logo
logo_file	CLOB DEFAULT ''	path to a user logo file
link_url	TEXT DEFAULT ''	URL of a user link
link_text	TEXT DEFAULT ''	text to display as a name of a user link
admin	VARCHAR(36) NOT NULL	UUID of the administrator who created the message template
name	VARCHAR(100) DEFAULT ''	template name

### Table indexes

Index name	Index type	Fields list
admin_msg_templates_0001	simple table index clustering index	admin
admin_msg_templates_pkey	table primary key	template_id

### Table references

Field name	Direction	Referenced table field
admin	→	admins.id



## admin\_objects

Objects of permissions for administrators.

### Table fields

Field name	Field type	Description
id_admin	VARCHAR(36) NOT NULL	administrator UUID
nright	INTEGER NOT NULL	numeric code for administrative permission
id_object	VARCHAR(36) NOT NULL	administrated objects ID

### Table indexes

Index name	Index type	Fields list
admin_objects_pkey	table primary key clustering index	id_admin, nright, id_object

### Table references

Field name	Direction	Referenced table field
id_admin	→	admins.id

## admin\_rights

Permissions for administrators.

### Table fields

Field name	Field type	Description
id_admin	VARCHAR(36) NOT NULL	administrator UUID
nright	INTEGER NOT NULL	numeric code for administrative permission
value	INTEGER DEFAULT '0'	value for administrative permission



Field name	Field type	Description
modtime	NUMERIC(17) DEFAULT '0'	last modification timestamp

### Table indexes

Index name	Index type	Fields list
admin_rights_pkey	table primary key	id_admin, nright

### Table references

Field name	Direction	Referenced table field
id_admin	→	admins.id

## admin\_to\_admin\_group

Parent groups of administrators.

### Table fields

Field name	Field type	Description
id_group	VARCHAR(36) NOT NULL	group UUID
id_admin	VARCHAR(36) NOT NULL	administrator UUID
modtime	NUMERIC(17) DEFAULT '0'	last modification timestamp
inherit	INTEGER DEFAULT '1'	specifies whether administrator inherits parent group attributes (1 for true)

### Table indexes

Index name	Index type	Fields list
admin_to_admin_group_pkey	table primary key	id_admin



## Table references

Field name	Direction	Referenced table field
id_admin	→	admins.id

## admins

Data of the Server administrators accounts.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	administrator UUID
login	VARCHAR(100) NOT NULL	login name
password	TEXT DEFAULT ''	password, plain or encrypted
fname	TEXT DEFAULT ''	first name
mname	TEXT DEFAULT ''	middle name
lname	TEXT DEFAULT ''	last name
descr	TEXT DEFAULT ''	description/notes/etc.
addr	TEXT DEFAULT ''	current network address
lastseenfrom	TEXT DEFAULT ''	network address of the last connection
lastseenat	NUMERIC(17) DEFAULT '0'	time of the last connection
createtime	NUMERIC(17) DEFAULT '0'	record creation time
modtime	NUMERIC(17) DEFAULT '0'	record modification time
externalauth	INTEGER DEFAULT '0'	autocreated using external authentication
langcode	VARCHAR(8) DEFAULT ''	interface language
datecode	VARCHAR(8) DEFAULT ''	date format



### Table indexes

Index name	Index type	Fields list
admins_0001	unique table index	id
admins_pkey	table primary key	login

## 2.2.4. License Management

### available\_keys

The list of license keys added to the Server.

#### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	license key ID
value	CLOB DEFAULT ''	file content
type	INTEGER DEFAULT '0'	type, see db-key-type
created	NUMERIC(17) DEFAULT '0'	record creation time

#### Table indexes

Index name	Index type	Fields list
available_keys_pkey	table primary key	id

### group\_key

Information on license keys of station groups.

#### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID



Field name	Field type	Description
kid	VARCHAR(36) NOT NULL	license key ID
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
group_key_0001	simple table index clustering index	id
group_key_pkey	table primary key	id, kid

### Table references

Field name	Direction	Referenced table field
id	→	groups_list.id

## key\_components

The list of anti-virus components allowed by a license key.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	license key ID
component	INTEGER NOT NULL	component number
created	NUMERIC(17) DEFAULT '0'	record creation time

### Table indexes

Index name	Index type	Fields list
key_components_pkey	table primary key	id, component



Index name	Index type	Fields list
	clustering index	

## key\_exchange

Data on licenses propagated on interserver connections.

### Table fields

Field name	Field type	Description
lid	VARCHAR(36) NOT NULL	interserver connection UUID
kid	VARCHAR(36) NOT NULL	license key ID
count	NUMERIC(10) DEFAULT '0'	number of licenses
expiration	NUMERIC(19) DEFAULT '0'	session expiration time
valid_thru	NUMERIC(19) DEFAULT '0'	absolute expiration time
state	INTEGER	exchange state, see db-key-exchange
modtime	NUMERIC(17) DEFAULT '0'	record modification time
rp_period	INTEGER DEFAULT '0'	period to send license usage report
st_period	INTEGER DEFAULT '0'	period to mark stations as active
rp_delivered	INTEGER DEFAULT '0'	flag that license usage report was delivered

### Table indexes

Index name	Index type	Fields list
key_exchange_pkey	table primary key clustering index	lid, kid



## key\_renew\_exchange

Data on updates of licenses propagated on interserver connections.

### Table fields

Field name	Field type	Description
okid	VARCHAR(36) NOT NULL	old license key ID
nkid	VARCHAR(36) DEFAULT ''	new license key ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
created	NUMERIC(17) DEFAULT '0'	record creation time

### Table indexes

Index name	Index type	Fields list
key_renew_exchange_pkey	table primary key clustering index	lid, okid

## key\_usage\_reports

Report on licenses propagated on interserver connections. General information.

### Table fields

Field name	Field type	Description
rid	VARCHAR(36) NOT NULL	report UUID
kid	VARCHAR(36) NOT NULL	license key ID
lid	VARCHAR(36) DEFAULT ''	interserver connection UUID of a message sender or empty if it is an own report
osid	VARCHAR(36) NOT NULL	originator Server ID
oname	TEXT DEFAULT ''	Server name
created	NUMERIC(17) DEFAULT '0'	time of report creation on the originator Server





## Table indexes

Index name	Index type	Fields list
key_usage_reports_0001	simple table index	kid
key_usage_reports_pkey	table primary key	rid

## key\_usage\_reports\_grp

Report on licenses propagated on interserver connections. Licenses propagated by the report creator to its station groups.

## Table fields

Field name	Field type	Description
rid	VARCHAR(36) NOT NULL	report UUID
obj_name	TEXT DEFAULT ''	group or neighbor Server name
count_all	NUMERIC(10) DEFAULT '0'	number of total licenses propagated to groups
count_act	NUMERIC(10)	number of active stations in groups

## Table indexes

Index name	Index type	Fields list
key_usage_reports_grp_0001	simple table index	rid

## Table references

Field name	Direction	Referenced table field
rid	↔	key_usage_reports.rid



## key\_usage\_reports\_srv

Report on licenses propagated on interserver connections. Licenses granted by the report creator to its child Servers.

### Table fields

Field name	Field type	Description
rid	VARCHAR(36) NOT NULL	report UUID
obj_name	TEXT DEFAULT ''	group or neighbor Server name
count	NUMERIC(10) DEFAULT '0'	number of propagated licenses
state	INTEGER	see db-key-exchange-state.h

### Table indexes

Index name	Index type	Fields list
key_usage_reports_srv_0001	simple table index	rid

### Table references

Field name	Direction	Referenced table field
rid	↔	key_usage_reports.rid

## policy\_key

License keys of policy current version.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
kid	VARCHAR(36) NOT NULL	license key ID



### Table indexes

Index name	Index type	Fields list
policy_key_0001	simple table index clustering index	id
policy_key_pkey	table primary key	id, kid

### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id

## policy\_key\_lst

License keys of policy previous versions.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
version	NUMERIC(17) NOT NULL	policy version
kid	VARCHAR(36) NOT NULL	license key ID

### Table indexes

Index name	Index type	Fields list
policy_key_lst_pkey	table primary key clustering index	id, version, kid



### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id

## station\_key

Information on license keys of stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
kid	VARCHAR(36) NOT NULL	license key ID
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
station_key_0001	simple table index clustering index	id
station_key_pkey	table primary key	id, kid

### Table references

Field name	Direction	Referenced table field
id	→	stations.id



## 2.2.5. Catalogues

### cat\_alert\_body

Catalog for body text of administrator notifications.

#### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	CLOB NOT NULL	string

#### Table indexes

Index name	Index type	Fields list
cat_alert_body_0001	simple table index clustering index	shash

### cat\_alert\_dev

Tokens of mobile applications that receive administrator notifications.

#### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	TEXT NOT NULL	string



## Table indexes

Index name	Index type	Fields list
cat_alert_dev_0001	simple table index clustering index	shash

## cat\_alert\_subj

Catalog for subjects of administrator notifications.

## Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	TEXT NOT NULL	string

## Table indexes

Index name	Index type	Fields list
cat_alert_subj_0001	simple table index clustering index	shash

## cat\_descr

Catalog for descriptions of anti-virus network nodes.

## Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID



Field name	Field type	Description
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_descr_0001	unique table index	str

## cat\_dev\_friendly\_name

Catalog for friendly name of device.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	CLOB NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_dev_friendly_name_0001	simple table index clustering index	shash



## cat\_dev\_group\_descr

Catalog for description of device groups.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	TEXT NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_dev_group_descr_0001	simple table index clustering index	shash

## cat\_dev\_group\_name

Catalog for name of device groups.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_dev_group_name_0001	unique table index	str





## cat\_device\_class

Catalog for class of device.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_device_class_0001	unique table index	str

## cat\_device\_descr

Catalog for description of device.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	CLOB NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_device_descr_0001	simple table index clustering index	shash



## cat\_device\_instance

Catalog for instance of device.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_device_instance_0001	unique table index	str

## cat\_hash

Catalog for hash values.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(64) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_hash_0001	unique table index	str



## cat\_hashdb

Catalog for hash database reports.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_hashdb_0001	unique table index	str

## cat\_job

Catalog for names of Scheduler tasks.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_job_0001	unique table index	str



## cat\_job\_srv

Catalog for error messages at executing Scheduler tasks for the Server.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	CLOB NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_job_srv_0001	simple table index clustering index	shash

## cat\_job\_stn

Catalog for error messages at executing Scheduler tasks for stations.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	CLOB NOT NULL	string



## Table indexes

Index name	Index type	Fields list
cat_job_stn_0001	simple table index clustering index	shash

## cat\_ldapdn

Catalog for stations distinguished names (LDAP DN).

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

## Table indexes

Index name	Index type	Fields list
cat_ldapdn_0001	unique table index	str

## cat\_mac

Catalog for stations MAC addresses.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(128) NOT NULL	string



### Table indexes

Index name	Index type	Fields list
cat_mac_0001	unique table index	str

### cat\_mod\_descr

Catalog for program modules descriptions.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(768) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_mod_descr_0001	unique table index	str

### cat\_mod\_md5

Catalog for program modules MD5.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(128) NOT NULL	string



### Table indexes

Index name	Index type	Fields list
cat_mod_md5_0001	unique table index	str

## cat\_mod\_name

Catalog for program modules names.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_mod_name_0001	unique table index	str

## cat\_mod\_ver

Catalog for program modules versions.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(768) NOT NULL	string



### Table indexes

Index name	Index type	Fields list
cat_mod_ver_0001	unique table index	str

## cat\_name\_groups

Catalog for names of station groups.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_name_groups_0001	unique table index	str

## cat\_name\_links

Catalog for names of neighbor Servers.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string





### Table indexes

Index name	Index type	Fields list
cat_name_links_0001	unique table index	str

### cat\_name\_stations

Catalog for names of stations.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_name_stations_0001	unique table index	str

### cat\_os\_group\_descr

Catalog for description of OS user groups.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	TEXT NOT NULL	string



### Table indexes

Index name	Index type	Fields list
cat_os_group_descr_0001	simple table index clustering index	shash

### cat\_os\_group\_name

Catalog for names of OS user groups.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	TEXT NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_os_group_name_0001	simple table index clustering index	shash

### cat\_os\_sid

Catalog for user and user groups security identifiers (SID).

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID



Field name	Field type	Description
str	VARCHAR(255) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_os_sid_0001	unique table index	str

## cat\_os\_user\_name

Catalog for names of OS users.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	TEXT NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_os_user_name_0001	simple table index clustering index	shash



## cat\_path

Catalog for paths.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	CLOB NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_path_0001	simple table index clustering index	shash

## cat\_profile\_name

Catalog for names of profiles.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	CLOB NOT NULL	string



### Table indexes

Index name	Index type	Fields list
cat_profile_name_0001	simple table index clustering index	shash

### cat\_rule\_name

Catalog for names of profiles rules.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	CLOB NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_rule_name_0001	simple table index clustering index	shash

### cat\_run\_param

Catalog for parameters of launching programs and modules.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID



Field name	Field type	Description
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	TEXT NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_run_param_0001	simple table index clustering index	shash

## cat\_sid

Catalog for stations security identifiers (SID).

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(255) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_sid_0001	unique table index	str



## cat\_upd\_admin

Catalog of administrators logins who launched the update manually, in the Server update log.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_upd_admin_0001	unique table index	str

## cat\_upd\_descr

Catalog of products descriptions in the Server update log.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	TEXT NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_upd_descr_0001	simple table index clustering index	shash



## cat\_upd\_files

Catalog of file names in the Server update log.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	CLOB NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_upd_files_0001	simple table index clustering index	shash

## cat\_upd\_product

Catalog of product names in the Server update log.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_upd_product_0001	unique table index	str





## cat\_users

Catalog of OS user names on stations.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_users_0001	unique table index	str

## cat\_vdb

Catalog for virus databases names.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(128) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_vdb_0001	unique table index	str



## cat\_virus

Catalog of detected threats names.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_virus_0001	unique table index	str

## cat\_virusinfo

Catalog for information on detected threats in the quarantine objects.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
shash	NUMERIC(11)	unsigned 32bit integer string hash
str	CLOB NOT NULL	string

### Table indexes

Index name	Index type	Fields list
cat_virusinfo_0001	simple table index clustering index	shash



## env\_strings

Catalog of text data for tables with information on hardware and software on stations of this and neighbor Servers.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	string ID
str	VARCHAR(512) NOT NULL	string

### Table indexes

Index name	Index type	Fields list
env_strings_0001	unique table index	str



## 2.2.6. Stations and Anti-virus Network Tree

### ads\_computers

Active Directory computers.

#### Table fields

Field name	Field type	Description
pid	VARCHAR(36) NOT NULL	parent container GUID
sid	VARCHAR(255) NOT NULL	computer SID

#### Table indexes

Index name	Index type	Fields list
ads_computers_pkey	table primary key	sid

### ads\_containers

Active Directory containers.

#### Table fields

Field name	Field type	Description
pid	VARCHAR(36) DEFAULT ''	parent container ID
cid	VARCHAR(36) NOT NULL	container ID
dn	TEXT NOT NULL	container DN
sid	VARCHAR(255) DEFAULT ''	container SID
name	TEXT DEFAULT ''	object name



## Table indexes

Index name	Index type	Fields list
ads_containers_0001	simple table index clustering index	pid
ads_containers_pkey	table primary key	cid

## ads\_users

Active Directory users.

## Table fields

Field name	Field type	Description
sid	VARCHAR(255) NOT NULL	user SID
dn	TEXT NOT NULL	user DN
pid	VARCHAR(36) NOT NULL	parent container GUID
name	TEXT DEFAULT ""	object name

## Table indexes

Index name	Index type	Fields list
ads_users_0001	simple table index clustering index	pid
ads_users_pkey	table primary key	sid



## client\_address

Addresses of clients who represent organizations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	organization ID
orgref	INTEGER NOT NULL	reference to use from client_org
country	CHARACTER(2) NOT NULL	country ISO code
zip	VARCHAR(256) NOT NULL	ZIP code
city	VARCHAR(256) NOT NULL	city name
street1	VARCHAR(256) NOT NULL	street, line #1
street2	VARCHAR(256)	street, line #2

### Table indexes

Index name	Index type	Fields list
client_address_pkey	table primary key clustering index	id, orgref

## client\_bankinfo

Bank information about clients who represent organizations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	organization ID
name	INTEGER NOT NULL	attribute name
value	VARCHAR(256)	attribute value



## Table indexes

Index name	Index type	Fields list
client_bankinfo_pkey	table primary key clustering index	id, name

## client\_org

Credentials of clients who represent organizations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	organization ID
full_name	VARCHAR(256)	organization full name
name	VARCHAR(256)	organization short name
phone	VARCHAR(20)	phone number
email	VARCHAR(256)	email address
url	VARCHAR(256)	web site
contract	VARCHAR(30)	contract number
contract_date	NUMERIC(17)	contract date
jaddr	INTEGER DEFAULT '0'	reference to client_address for client legal address
baddr	INTEGER DEFAULT '0'	reference to client_address for client bank address reference
paddr	INTEGER DEFAULT '0'	reference to client_address for client post address reference
laddr	INTEGER DEFAULT '0'	reference to client_address for client location address reference



### Table indexes

Index name	Index type	Fields list
client_org_pkey	table primary key	id

### Table references

Field name	Direction	Referenced table field
id	→	groups_list.id

## deleted\_groups

Information on deleted station groups.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
pid	VARCHAR(36) DEFAULT ''	parent group
name	TEXT DEFAULT ''	group name
descr	TEXT DEFAULT ''	description/notes/etc.
type	INTEGER DEFAULT '0'	type: system/user/etc.
platform	NUMERIC(12) DEFAULT '0'	group platform (for system groups)
createtime	NUMERIC(17) DEFAULT '0'	record creation time
modtime	NUMERIC(17) DEFAULT '0'	record modification time
deleted	NUMERIC(17) DEFAULT '0'	group deletion time

### Table indexes

Index name	Index type	Fields list
deleted_groups_pkey	table primary key	id





## deleted\_stations

Information on deleted station accounts.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
gid	VARCHAR(36) DEFAULT ''	former primary group ID
rate	VARCHAR(36) DEFAULT ''	former tariff
password	TEXT DEFAULT ''	password as plain text
name	TEXT DEFAULT ''	station name
state	INTEGER DEFAULT '0'	last state
addr	TEXT DEFAULT ''	current network address
lastseenfrom	TEXT DEFAULT ''	network address of the last connection
lastseenat	NUMERIC(17) DEFAULT '0'	time of the last connection
createtime	NUMERIC(17) NOT NULL	record creation time
modtime	NUMERIC(17) DEFAULT '0'	record modification time
lastos	NUMERIC(12) DEFAULT '0'	last reported operating system
server	VARCHAR(36) DEFAULT ''	login server
expires	NUMERIC(17) DEFAULT '0'	account expiration time
blockbeg	NUMERIC(17) DEFAULT '0'	account blocking start date
blockend	NUMERIC(17) DEFAULT '0'	account blocking end date
allowedaddr	TEXT DEFAULT ''	allowed addresses ACL
descr	TEXT DEFAULT ''	description/notes/etc.
organization	TEXT DEFAULT ''	organization
department	TEXT DEFAULT ''	department
country	CHARACTER(2) DEFAULT ''	2 letter country ISO code



Field name	Field type	Description
province	TEXT DEFAULT ''	state/province/etc.
city	TEXT DEFAULT ''	city
street	TEXT DEFAULT ''	street
floor	TEXT DEFAULT ''	floor
room	TEXT DEFAULT ''	room
latitude	INTEGER DEFAULT '0'	latitude, in seconds, +north -south
longitude	INTEGER DEFAULT '0'	longitude, in seconds, +east -west
email	TEXT DEFAULT ''	station user email
deleted	NUMERIC(17) DEFAULT '0'	station deletion time
osclass	INTEGER DEFAULT '0'	operating system class, see os-class
prototype	INTEGER DEFAULT '0'	prototype
user_id	TEXT DEFAULT ''	user name
company_id	TEXT DEFAULT ''	company name

### Table indexes

Index name	Index type	Fields list
deleted_stations_0001	simple table index	createtime
deleted_stations_pkey	table primary key	id

### group\_accounting

Information on a grace period of station groups (AV-Desk only).

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
freedays	INTEGER	cost-free period in days



### Table indexes

Index name	Index type	Fields list
group_accounting_pkey	table primary key	id

### Table references

Field name	Direction	Referenced table field
id	→	groups_list.id

## group\_attributes

Arbitrary attributes of station groups. Is not currently used.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
attribute	INTEGER NOT NULL	attribute
value	VARCHAR(4000)	attribute value
modtime	NUMERIC(17)	modification time

### Table indexes

Index name	Index type	Fields list
group_attributes_pkey	table primary key clustering index	id, attribute

### Table references

Field name	Direction	Referenced table field
id	→	groups_list.id



## group\_children

The list of child groups for station groups.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
child	VARCHAR(36) NOT NULL	child group ID

### Table indexes

Index name	Index type	Fields list
group_children_pkey	table primary key	id, child

## group\_parent

Information on parent groups for station groups.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
pid	VARCHAR(36) NOT NULL	parent group ID
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
group_parent_0001	simple table index	pid
group_parent_pkey	table primary key	id



## Table references

Field name	Direction	Referenced table field
id	→	groups_list.id

## group\_password

Passwords for the access to groups (is used by group installers).

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
password	VARCHAR(256) NOT NULL	password to access the group (is used by group installers)

### Table indexes

Index name	Index type	Fields list
group_password_pkey	table primary key	id

## group\_stations\_count

Cache of the number of stations in groups.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	server ID
flags	INTEGER NOT NULL	counting flags, see st-db-counting .ds/.h
group_id	VARCHAR(36) NOT NULL	group ID
admin_id	VARCHAR(36) NOT NULL	admin UUID
count	INTEGER NOT NULL	number of stations



Field name	Field type	Description
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
group_stations_count_pkey	table primary key clustering index	osid, admin_id, flags, group_id

## grouping\_rules

Information on automatic membership in user groups.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
script	TEXT DEFAULT ''	script for automatic grouping
gr_rule	TEXT DEFAULT ''	rule for automatic grouping

### Table indexes

Index name	Index type	Fields list
grouping_rules_pkey	table primary key	id

### Table references

Field name	Direction	Referenced table field
id	→	groups_list.id



## groups\_list

The list of station groups.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
name	TEXT DEFAULT ''	group name
descr	TEXT DEFAULT ''	description/notes/etc.
type	INTEGER DEFAULT '0'	type: system/user/etc.
platform	NUMERIC(12) DEFAULT '0'	group platform (for system groups)
createtime	NUMERIC(17) DEFAULT '0'	record creation time
modtime	NUMERIC(17) DEFAULT '0'	record modification time
haspersset	INTEGER DEFAULT '0'	does the group have personal settings
modpersetime	NUMERIC(17) DEFAULT '0'	the `haspersset` field modification time

### Table indexes

Index name	Index type	Fields list
groups_list_pkey	table primary key	id

## iface\_hidden\_groups

Information on displaying of groups in the anti-virus network tree.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	record owner (admin.id)
gid	VARCHAR(36) NOT NULL	group ID



Field name	Field type	Description
flag	INTEGER DEFAULT '1'	0 = hidden

### Table indexes

Index name	Index type	Fields list
iface_hidden_groups_pkey	table primary key clustering index	id, gid

### Table references

Field name	Direction	Referenced table field
id	→	admins.id

## msad\_object

Display names of Active Directory objects.

### Table fields

Field name	Field type	Description
sid	VARCHAR(255) NOT NULL	user/group SID
name	TEXT DEFAULT ''	display name

### Table indexes

Index name	Index type	Fields list
msad_object_pkey	table primary key	sid





## newbies

The list of unapproved stations (newbies).

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
name	TEXT DEFAULT ''	station name
addr	TEXT DEFAULT ''	station network address
connected	NUMERIC(17) DEFAULT '0'	connection time
platform	NUMERIC(12) DEFAULT '0'	reported operating system
server	VARCHAR(36) DEFAULT ''	server
admin	VARCHAR(36) DEFAULT ''	login name of the administrator who changed the action on the station connect
admaddr	TEXT DEFAULT ''	network address of the administrator who changed the action on the station connect
onconnect	INTEGER DEFAULT '0'	the action on the station connect, see newbie-db-onconnect.ds
stationid	VARCHAR(36) DEFAULT ''	ID of the station after approving (onconnect==approve)
gid	VARCHAR(36) DEFAULT ''	ID of the group to which the station approved (onconnect==approve)
rate	VARCHAR(36) DEFAULT ''	rate of the station after approving (onconnect==approve)
state	INTEGER DEFAULT '1'	see newbie-db-state.ds
no_grace	INTEGER DEFAULT '0'	flag to disable grace period
description	TEXT DEFAULT ''	station description
ldapdn	TEXT DEFAULT ''	station LDAP DN
mac	VARCHAR(128) DEFAULT ''	station MAC
sid	VARCHAR(256) DEFAULT ''	station SID



### Table indexes

Index name	Index type	Fields list
newbies_pkey	table primary key	id

## policy\_list

The list of policies for stations configuring.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
name	VARCHAR(255) DEFAULT 'Unnamed'	policy name
version	NUMERIC(17) DEFAULT '0'	current version of a policy (0 if there is no current version)

### Table indexes

Index name	Index type	Fields list
policy_list_pkey	table primary key	id

## policy\_stations

Assigning policies to stations.

### Table fields

Field name	Field type	Description
sid	VARCHAR(36) NOT NULL	station ID
id	VARCHAR(36) NOT NULL	policy ID
assigned	NUMERIC(17) DEFAULT '0'	assigning time



### Table indexes

Index name	Index type	Fields list
policy_stations_0001	simple table index	id
policy_stations_pkey	table primary key	sid

### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id
sid	→	stations.id

## policy\_versions

The list of policy versions for stations configuring.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
version	NUMERIC(17) NOT NULL	policy version

### Table indexes

Index name	Index type	Fields list
policy_versions_pkey	table primary key clustering index	id, version



## Table references

Field name	Direction	Referenced table field
id	→	policy_list.id

## proxies

Accounts of Proxy servers connected to the Server.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	proxy ID
gid	VARCHAR(36) NOT NULL	primary group ID
password	TEXT DEFAULT ''	password as plain text
name	TEXT DEFAULT ''	station name, if the Proxy server is linked to a station
state	INTEGER DEFAULT '0'	current state, see st-db-state .ds/.h
addr	TEXT DEFAULT ''	current network address
lastseenfrom	TEXT DEFAULT ''	network address of the last connection
lastseenat	NUMERIC(17) DEFAULT '0'	time of the last connection
createtime	NUMERIC(17) DEFAULT '0'	record creation time
modtime	NUMERIC(17) DEFAULT '0'	record modification time
server	VARCHAR(36) DEFAULT ''	login server
prototype	INTEGER DEFAULT '0'	network protocol type, see st-db-proto .ds/.h
station	VARCHAR(36) DEFAULT ''	station ID, if the Proxy server is linked to a station
haspersset	INTEGER DEFAULT '0'	does the Proxy have personal settings
modperssettime	NUMERIC(17) DEFAULT '0'	the `haspersset` field modification time



### Table indexes

Index name	Index type	Fields list
proxies_0001	simple table index	station
proxies_pkey	table primary key	id

## station\_accounting

Information in stations grace period (AV-Desk only).

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
freedays	INTEGER NOT NULL	grace period in days

### Table indexes

Index name	Index type	Fields list
station_accounting_pkey	table primary key	id

### Table references

Field name	Direction	Referenced table field
id	→	stations.id



## station\_attributes

Arbitrary attributes of station accounts.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
attribute	INTEGER NOT NULL	attribute
value	VARCHAR(4000)	attribute value
modtime	NUMERIC(17)	modification time

### Table indexes

Index name	Index type	Fields list
station_attributes_0001	simple table index clustering index	attribute
station_attributes_pkey	table primary key	id, attribute

### Table references

Field name	Direction	Referenced table field
id	→	stations.id

## station\_extra

Additional information on station accounts.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID



Field name	Field type	Description
descr	TEXT DEFAULT ''	description/notes/etc.
organization	TEXT DEFAULT ''	organization
department	TEXT DEFAULT ''	department
country	CHARACTER(2) DEFAULT ''	2-letter country ISO code
province	TEXT DEFAULT ''	state/province/etc.
city	TEXT DEFAULT ''	city
street	TEXT DEFAULT ''	street
floor	TEXT DEFAULT ''	floor
room	TEXT DEFAULT ''	room
latitude	INTEGER DEFAULT '0'	latitude, in seconds, +north -south
longitude	INTEGER DEFAULT '0'	longitude, in seconds, +east -west
email	TEXT DEFAULT ''	administrator email
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
station_extra_pkey	table primary key	id

### Table references

Field name	Direction	Referenced table field
id	→	stations.id



## station\_groups

Information about the placement of stations in user groups.

### Table fields

Field name	Field type	Description
sid	VARCHAR(36) NOT NULL	station ID
gid	VARCHAR(36) NOT NULL	group ID
createtime	NUMERIC(17) DEFAULT '0'	record creation time
autoadded	INTEGER DEFAULT '0'	does the station is added to the group according to automatic membership rules

### Table indexes

Index name	Index type	Fields list
station_groups_0001	simple table index	gid
station_groups_0002	simple table index	sid
station_groups_pkey	table primary key clustering index	sid, gid

### Table references

Field name	Direction	Referenced table field
sid	→	stations.id





## stations

Data of stations accounts.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
gid	VARCHAR(36) NOT NULL	primary group ID
rate	VARCHAR(36) DEFAULT ''	station current tariff ID
kid	VARCHAR(36) DEFAULT ''	license key ID
osgroup	VARCHAR(36) DEFAULT ''	operating system group
password	TEXT DEFAULT ''	password as plain text
name	TEXT DEFAULT ''	station name
state	INTEGER DEFAULT '0'	current state, see st-db-state .ds/.h
addr	TEXT DEFAULT ''	current network address
lastseenfrom	TEXT DEFAULT ''	network address of the last connection
lastseenat	NUMERIC(17) NOT NULL	time of the last connection
createtime	NUMERIC(17) DEFAULT '0'	record creation time
modtime	NUMERIC(17) DEFAULT '0'	record modification time
lastos	NUMERIC(12) DEFAULT '0'	last reported operating system
server	VARCHAR(36) DEFAULT ''	login server
expires	NUMERIC(17) DEFAULT '0'	account expiration time
blockbeg	NUMERIC(17) DEFAULT '0'	account blocking start date
blockend	NUMERIC(17) DEFAULT '0'	account blocking end date
allowedaddr	TEXT DEFAULT ''	allowed addresses ACL
osclass	INTEGER DEFAULT '0'	operating system class, see st-db-osclass .h/.ds
prototype	INTEGER DEFAULT '0'	network protocol type, see st-db-proto .ds/.h



Field name	Field type	Description
hasperset	INTEGER DEFAULT '0'	does the station have personal settings
modpersetime	NUMERIC(17) DEFAULT '0'	the `hasperset` field modification time
emplace_id	VARCHAR(36) DEFAULT ''	emplacing ID, may be non-empty only during emplacing
reboot	INTEGER DEFAULT '0'	reboot state, see st-db-reboot .ds/.h
sid	VARCHAR(255) DEFAULT ''	SID - security identifier of Windows OS user account
ldapdn	VARCHAR(512) DEFAULT ''	LDAP - distinguished name of a station under Windows OS

### Table indexes

Index name	Index type	Fields list
stations_0001	simple table index clustering index	gid
stations_0002	simple table index	lastseenat
stations_0003	simple table index	sid
stations_pkey	table primary key	id

### stations\_left\_groups

The list of groups in which the stations were previously included.

### Table fields

Field name	Field type	Description
sid	VARCHAR(36) NOT NULL	station ID
gid	VARCHAR(36) NOT NULL	group ID
createtime	NUMERIC(17) DEFAULT '0'	record creation time



### Table indexes

Index name	Index type	Fields list
stations_left_groups_0001	simple table index clustering index	gid

### Table references

Field name	Direction	Referenced table field
gid	→	groups_list.id
sid	→	stations.id

## 2.2.7. Neighborhood

### servers

The list of neighbor Servers.

#### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	this Server ID
id	VARCHAR(36) NOT NULL	interserver connection UUID (lid in other tables)
name	VARCHAR(64) NOT NULL	attribute name
value	TEXT DEFAULT ''	attribute value
updatetime	NUMERIC(17) DEFAULT '0'	record creation

#### Table indexes

Index name	Index type	Fields list
servers_0001	simple table index	osid, id, name



Index name	Index type	Fields list
	clustering index	

## srv\_names

Identification data of neighbor Servers.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	server ID
oname	TEXT DEFAULT ''	server name
updatetime	NUMERIC(17) NOT NULL	record time

### Table indexes

Index name	Index type	Fields list
srv_names_0001	simple table index	updatetime
srv_names_pkey	table primary key	osid

## srv\_unsent

Events that have not been sent to the neighbor Servers.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	originator ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
mid	VARCHAR(36) NOT NULL	message UUID
id	VARCHAR(36) DEFAULT ''	station ID
stationname	INTEGER DEFAULT '0'	station name



Field name	Field type	Description
event	TEXT DEFAULT ''	event name
data	CLOB DEFAULT ''	event data
lastsent	NUMERIC(17) DEFAULT '0'	last sent time
arrived	NUMERIC(17) NOT NULL	record creation

### Table indexes

Index name	Index type	Fields list
srv_unsent_0001	simple table index clustering index	lid, osid
srv_unsent_0002	simple table index	lid, mid

### Table references

Field name	Direction	Referenced table field
osid	←	srv_recvhistory.mid
stationname	↔	cat_name_stations.id

## 2.2.8. Application Control

### appctl\_bases

Content of trusted applications group of Application Control.

#### Table fields

Field name	Field type	Description
dbid	VARCHAR(36) NOT NULL	UUID of trusted applications group
dbtype	INTEGER NOT NULL	type of trusted applications group(files or certificates)



Field name	Field type	Description
blockno	INTEGER NOT NULL	blocking number
block	CHARACTER(1024) NOT NULL	data block of 768-bytes in base64 encoding

### Table indexes

Index name	Index type	Fields list
appctl_bases_pkey	table primary key clustering index	dbid, dbtype, blockno

### Table references

Field name	Direction	Referenced table field
dbid	→	appctl_dir.dbid

## appctl\_dir

Description of trusted applications group of Application Control.

### Table fields

Field name	Field type	Description
dbid	VARCHAR(36) NOT NULL	UUID of trusted applications group
srvid	VARCHAR(36) NOT NULL	master Server ID (it will process)
name	VARCHAR(256) DEFAULT ''	name of trusted applications group
descr	TEXT DEFAULT ''	description of trusted applications group
params	TEXT NOT NULL	generation params of trusted applications group
begintime	NUMERIC(17) DEFAULT '0'	start time of creation
endtime	NUMERIC(17) DEFAULT '0'	end time of creation (0 - incomplete)



Field name	Field type	Description
fl_sha256	VARCHAR(256) DEFAULT ''	SHA-256 of unloaded hashes of files
fl_fsize	NUMERIC(20) DEFAULT '0'	Size of unloaded hashes of files
cr_sha256	VARCHAR(256) DEFAULT ''	SHA-256 of unloaded hashes of certificates
cr_fsize	NUMERIC(20) DEFAULT '0'	Size of unloaded hashes of certificates
error	TEXT DEFAULT ''	processing error

### Table indexes

Index name	Index type	Fields list
appctl_dir_0001	simple table index	srvid
appctl_dir_pkey	table primary key	dbid

## appctl\_download

Application Control downloaded data blocks.

### Table fields

Field name	Field type	Description
dbid	VARCHAR(36) NOT NULL	UUID of trusted applications group
stid	VARCHAR(36) NOT NULL	station ID
dbtype	INTEGER NOT NULL	type of trusted applications group (files or certificates)
blockno	INTEGER NOT NULL	blocking number
block	CHARACTER(1024) NOT NULL	data block of 768-bytes in base64 encoding

### Table indexes

Index name	Index type	Fields list
appctl_download_0001	simple table index	stid



Index name	Index type	Fields list
appctl_download_pkey	table primary key clustering index	dbid, stid, dbtype, blockno

### Table references

Field name	Direction	Referenced table field
dbid	→	appctl_dir.dbid
stid	→	stations.id

## appctl\_event\_cert

Application Control event certificate metadata.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	Certificate ID
thumbprint	VARCHAR(64) NOT NULL	Certificate thumbprint (SHA-1)
serial	TEXT NOT NULL	Certificate serial number
issuer	TEXT NOT NULL	Certificate issuer
subject	TEXT NOT NULL	Certificate subject
ts	NUMERIC(17) NOT NULL	Certificate timestamp
not_before	NUMERIC(17) NOT NULL	Certificate start date
not_after	NUMERIC(17) NOT NULL	Certificate end date

### Table indexes

Index name	Index type	Fields list
appctl_event_cert_0001	unique table index	thumbprint





## appctl\_event\_file

Application Control event file metadata.

### Table fields

Field name	Field type	Description
id	INTEGER PRIMARY KEY AUTOINCREMENT	File ID
sha256	VARCHAR(64) NOT NULL	File SHA-256 hash
ver	TEXT DEFAULT ''	File version
descr	TEXT DEFAULT ''	File description
origname	TEXT DEFAULT ''	File original name
prodname	TEXT DEFAULT ''	File product name
prodver	TEXT DEFAULT ''	File product version
company	TEXT DEFAULT ''	File company name
filesize	NUMERIC(20) DEFAULT '0'	File size
cert	INTEGER DEFAULT '0'	Certificate

### Table indexes

Index name	Index type	Fields list
appctl_event_file_0001	unique table index	sha256

### Table references

Field name	Direction	Referenced table field
cert	↔	appctl_event_cert.id



## appctl\_participant

Generation participant of trusted applications group of Application Control.

### Table fields

Field name	Field type	Description
dbid	VARCHAR(36) NOT NULL	UUID of trusted applications group
stid	VARCHAR(36) NOT NULL	station ID
begintime	NUMERIC(17) DEFAULT '0'	start time of creation
endtime	NUMERIC(17) DEFAULT '0'	end time of creation (0 - incomplete)
fl_sha256	VARCHAR(256) DEFAULT ''	expected files DB SHA256
fl_fsize	NUMERIC(20) DEFAULT '0'	expected files DB size
fl_csize	NUMERIC(20) DEFAULT '0'	current files DB size
cr_sha256	VARCHAR(256) DEFAULT ''	expected certificate DB SHA256
cr_fsize	NUMERIC(20) DEFAULT '0'	expected certificate DB size
cr_csize	NUMERIC(20) DEFAULT '0'	current certificate DB size
state	INTEGER DEFAULT '0'	see hash-db-download-status.ds

### Table indexes

Index name	Index type	Fields list
appctl_participant_0001	simple table index	stid
appctl_participant_pkey	table primary key clustering index	dbid, stid

### Table references

Field name	Direction	Referenced table field
dbid	↔	appctl_dir.dbid



## 2.2.9. Server Configuration

### news\_subscription

Subscriptions on news of Doctor Web company.

#### Table fields

Field name	Field type	Description
sid	VARCHAR(36) NOT NULL	server ID
aid	VARCHAR(36) NOT NULL	admin UUID
did	VARCHAR(36) NOT NULL	news sections ID
createtime	NUMERIC(17) DEFAULT '0'	subscription time

#### Table indexes

Index name	Index type	Fields list
news_subscription_0001	simple table index	did, sid
news_subscription_pkey	table primary key clustering index	sid, aid, did

#### Table references

Field name	Direction	Referenced table field
aid	→	admins.id
did	→	news_known_did.did



## server\_schedule

Server scheduler tasks.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	Server ID
item	VARCHAR(36) NOT NULL	task UUID
format	INTEGER DEFAULT '0'	value format
prefix	VARCHAR(64) NOT NULL	option prefix: is it time or action
field	VARCHAR(64) NOT NULL	option name
seq	INTEGER NOT NULL	option sequence number
asnumber	NUMERIC(19) DEFAULT '0'	option value as a number
asstring	CLOB DEFAULT ''	option value as a string

### Table indexes

Index name	Index type	Fields list
server_schedule_pkey	table primary key clustering index	id, item, prefix, field, seq

## 2.2.10. Stations Configuration

### proxy\_cfg

Configuration of Proxy servers connected to the Server.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	proxy ID



Field name	Field type	Description
component	INTEGER NOT NULL	component ID (fake ID for complementing to standard structure. ID is always 146)
name	VARCHAR(255) NOT NULL	option name
seq	INTEGER NOT NULL	option sequence number
value	CLOB DEFAULT ''	option value
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
proxy_cfg_pkey	table primary key clustering index	id, name, seq, component

### Table references

Field name	Direction	Referenced table field
id	→	proxies.id

## station\_cfg

Anti-virus components configuration for stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
component	INTEGER NOT NULL	component ID
name	VARCHAR(255) NOT NULL	option name
seq	INTEGER NOT NULL	option sequence number
value	CLOB DEFAULT ''	option value



Field name	Field type	Description
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
station_cfg_pkey	table primary key clustering index	id, component, name, seq

### Table references

Field name	Direction	Referenced table field
id	→	stations.id

## station\_install

Installing anti-virus components for stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
component	INTEGER NOT NULL	component ID
imode	INTEGER DEFAULT '1'	installation mode, see cmp-install.ds
createtime	NUMERIC(17) DEFAULT '0'	record creation time

### Table indexes

Index name	Index type	Fields list
station_install_pkey	table primary key clustering index	id, component



### Table references

Field name	Direction	Referenced table field
id	→	stations.id

## station\_rights

User permissions for stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
nright	NUMERIC(19) NOT NULL	permission name
value	NUMERIC(19) DEFAULT '0'	permission value as a string

### Table indexes

Index name	Index type	Fields list
station_rights_pkey	table primary key clustering index	id, nright

### Table references

Field name	Direction	Referenced table field
id	→	stations.id



## station\_schedule

Scheduler tasks for stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
item	VARCHAR(36) NOT NULL	task UUID
format	INTEGER DEFAULT '0'	option format
prefix	VARCHAR(64) NOT NULL	option prefix: is it time or action
field	VARCHAR(64) NOT NULL	option name
seq	INTEGER NOT NULL	option sequence number
asnumber	NUMERIC(19) DEFAULT '0'	option value as a number
asstring	CLOB DEFAULT ''	option value as a string

### Table indexes

Index name	Index type	Fields list
station_schedule_0001	simple table index	id
station_schedule_pkey	table primary key clustering index	id, item, prefix, field, seq

### Table references

Field name	Direction	Referenced table field
id	→	stations.id





## station\_updlimit

The chart of limitations on updates from the Server for stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
seq	INTEGER NOT NULL	sequence number
bitmap	VARCHAR(768) DEFAULT ''	schedule with transfer restrictions for a week (bitmap)
bandwidth	INTEGER	maximal transmission speed
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
station_updlimit_pkey	table primary key clustering index	id, seq

### Table references

Field name	Direction	Referenced table field
id	→	stations.id

## station\_updmap

Limitations on updates from the Server for stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID



Field name	Field type	Description
policy	INTEGER DEFAULT '0'	update policy, see update-policy .ds/.h
bandwidth	INTEGER	maximal transmission speed, NULL for unlimited
beactual	INTEGER DEFAULT '0'	send to stations all last updates instead of marked as current
older_agent_ignore	INTEGER	ignore the messages on aging of virus databases from stations
older_server_gap	NUMERIC(19)	interval when products at stations are considered relevant
downgrade	INTEGER DEFAULT '0'	allow components downgrade
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
station_updmap_pkey	table primary key	id

### Table references

Field name	Direction	Referenced table field
id	→	stations.id

## 2.2.11. Groups Configuration

### group\_cfg

Anti-virus components configuration for station groups.

#### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID



Field name	Field type	Description
component	INTEGER NOT NULL	component ID
name	VARCHAR(255) NOT NULL	parameter key
seq	INTEGER NOT NULL	sequence number of parameter value
value	CLOB DEFAULT ''	parameter value
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
group_cfg_pkey	table primary key clustering index	id, component, name, seq

### Table references

Field name	Direction	Referenced table field
id	→	groups_list.id

## group\_cfg\_def

Default configuration of anti-virus components for station groups.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
component	INTEGER NOT NULL	component ID
name	VARCHAR(255) NOT NULL	parameter key
seq	INTEGER NOT NULL	sequence number of parameter value
value	CLOB DEFAULT ''	parameter value



## Table indexes

Index name	Index type	Fields list
group_cfg_def_pkey	table primary key clustering index	id, component, name, seq

## group\_install

Installing anti-virus components for station groups.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
component	INTEGER NOT NULL	component ID
imode	INTEGER DEFAULT '1'	installation mode, see cmp-install.ds
createtime	NUMERIC(17) DEFAULT '0'	record creation time

## Table indexes

Index name	Index type	Fields list
group_install_pkey	table primary key clustering index	id, component

## Table references

Field name	Direction	Referenced table field
id	→	groups_list.id



## group\_rights

User permissions for station groups.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
nright	NUMERIC(19) NOT NULL	permission name
value	NUMERIC(19) DEFAULT '0'	value as a string

### Table indexes

Index name	Index type	Fields list
group_rights_pkey	table primary key clustering index	id, nright

### Table references

Field name	Direction	Referenced table field
id	→	groups_list.id

## group\_schedule

Scheduler tasks for station groups.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
item	VARCHAR(36) NOT NULL	task UUID
format	INTEGER DEFAULT '0'	option format



Field name	Field type	Description
prefix	VARCHAR(64) NOT NULL	option prefix: is it time or action
field	VARCHAR(64) NOT NULL	option name
seq	INTEGER NOT NULL	option sequence number
asnumber	NUMERIC(19) DEFAULT '0'	option value as a number
asstring	CLOB DEFAULT ''	option value as a string

### Table indexes

Index name	Index type	Fields list
group_schedule_0001	simple table index	id
group_schedule_pkey	table primary key clustering index	id, item, prefix, field, seq

### Table references

Field name	Direction	Referenced table field
id	→	groups_list.id

## group\_updlimit

The chart of limitations on updates from the Server for station groups.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
seq	INTEGER NOT NULL	sequence number
bitmap	VARCHAR(768) DEFAULT ''	schedule with transfer restrictions for a week (bitmap)
bandwidth	INTEGER	maximal transmission speed



Field name	Field type	Description
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
group_updlimit_pkey	table primary key clustering index	id, seq

### Table references

Field name	Direction	Referenced table field
id	→	groups_list.id

## group\_updmap

Limitations on updates from the Server for station groups.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
policy	INTEGER DEFAULT '0'	update policy, see update-policy .ds/.h
bandwidth	INTEGER	maximal transmission speed, NULL for unlimited
beactual	INTEGER DEFAULT '0'	send to stations all last updates instead of marked as current
older_agent_ignore	INTEGER	ignore the messages on aging of virus databases from stations
older_server_gap	NUMERIC(19)	interval when products at stations are considered relevant
downgrade	INTEGER DEFAULT '0'	allow components downgrade



Field name	Field type	Description
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
group_updmap_pkey	table primary key	id

### Table references

Field name	Direction	Referenced table field
id	→	groups_list.id

## 2.2.12. Policies Configuration

### policy\_cfg

Anti-virus components configuration in the settings of policy current version.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
component	INTEGER NOT NULL	component ID
name	VARCHAR(255) NOT NULL	option name
seq	INTEGER NOT NULL	option sequence number
value	CLOB DEFAULT ''	option value

### Table indexes

Index name	Index type	Fields list
policy_cfg_pkey	table primary key	id, component, name, seq





Index name	Index type	Fields list
	clustering index	

### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id

## policy\_cfg\_lst

Anti-virus components configuration in the settings of policy previous versions.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
version	NUMERIC(17) NOT NULL	policy version
component	INTEGER NOT NULL	component ID
name	VARCHAR(255) NOT NULL	option name
seq	INTEGER NOT NULL	option sequence number
value	CLOB DEFAULT ""	option value

### Table indexes

Index name	Index type	Fields list
policy_cfg_lst_pkey	table primary key clustering index	id, version, component, name, seq



### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id

## policy\_install

Installing components lists in the settings of policy current version.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
component	INTEGER NOT NULL	component ID
imode	INTEGER DEFAULT '1'	installation mode

### Table indexes

Index name	Index type	Fields list
policy_install_pkey	table primary key clustering index	id, component

### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id



## policy\_install\_lst

Installing components lists in the settings of policy previous versions.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
version	NUMERIC(17) NOT NULL	policy version
component	INTEGER NOT NULL	component ID
imode	INTEGER DEFAULT '1'	installation mode

### Table indexes

Index name	Index type	Fields list
policy_install_lst_pkey	table primary key clustering index	id, version, component

### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id

## policy\_rights

Permissions of station users in the settings of policy current version.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
nright	NUMERIC(19) NOT NULL	permission name



Field name	Field type	Description
value	NUMERIC(19) DEFAULT '0'	permission value as a string

### Table indexes

Index name	Index type	Fields list
policy_rights_pkey	table primary key clustering index	id, nright

### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id

## policy\_rights\_lst

Permissions of station users in the settings of policy previous versions.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
version	NUMERIC(17) NOT NULL	policy version
nright	NUMERIC(19) NOT NULL	permission name
value	NUMERIC(19) DEFAULT '0'	permission value as a string

### Table indexes

Index name	Index type	Fields list
policy_rights_lst_pkey	table primary key clustering index	id, version, nright



## Table references

Field name	Direction	Referenced table field
id	→	policy_list.id

## policy\_schedule

Tasks of station Scheduler in the settings of policy current version.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
item	VARCHAR(36) NOT NULL	task UUID
format	INTEGER DEFAULT '0'	option format
prefix	VARCHAR(64) NOT NULL	option prefix: is it time or action
field	VARCHAR(64) NOT NULL	option name
seq	INTEGER NOT NULL	option sequence number
asnumber	NUMERIC(19) DEFAULT '0'	option value as a number
asstring	CLOB DEFAULT ''	option value as a string

## Table indexes

Index name	Index type	Fields list
policy_schedule_0001	simple table index	id
policy_schedule_pkey	table primary key clustering index	id, item, prefix, field, seq



## Table references

Field name	Direction	Referenced table field
id	→	policy_list.id

## policy\_schedule\_lst

Tasks of station Scheduler in the settings of policy previous versions.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
version	NUMERIC(17) NOT NULL	policy version
item	VARCHAR(36) NOT NULL	task UUID
format	INTEGER DEFAULT '0'	option format
prefix	VARCHAR(64) NOT NULL	option prefix: is it time or action
field	VARCHAR(64) NOT NULL	option name
seq	INTEGER NOT NULL	option sequence number
asnumber	NUMERIC(19) DEFAULT '0'	option value as a number
asstring	CLOB DEFAULT ''	option value as a string

## Table indexes

Index name	Index type	Fields list
policy_schedule_lst_pkey	table primary key clustering index	id, version, item, prefix, field, seq



### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id

## policy\_updlimit

The chart of limitations on updates of stations from the Server in the settings of policy current version.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
seq	INTEGER NOT NULL	sequence number
bitmap	VARCHAR(768) DEFAULT ""	schedule with transfer restrictions for a week (bitmap)
bandwidth	INTEGER	maximal transmission speed

### Table indexes

Index name	Index type	Fields list
policy_updlimit_pkey	table primary key clustering index	id, seq

### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id



## policy\_updlimit\_lst

The chart of limitations on updates of stations from the Server in the settings of policy previous versions.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
version	NUMERIC(17) NOT NULL	policy version
seq	INTEGER NOT NULL	sequence number
bitmap	VARCHAR(768) DEFAULT ""	schedule with transfer restrictions for a week (bitmap)
bandwidth	INTEGER	maximal transmission speed

### Table indexes

Index name	Index type	Fields list
policy_updlimit_lst_pkey	table primary key clustering index	id, version, seq

### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id





## policy\_updmap

Limitations on updates of stations from the Server in the settings of policy current version.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
policy	INTEGER DEFAULT '0'	update policy, see update-policy .ds/.h
bandwidth	INTEGER	maximal transmission speed, NULL for unlimited
beactual	INTEGER DEFAULT '0'	send to stations all last updates instead of marked as current
older_agent_ignore	INTEGER	ignore the messages on aging of virus databases from stations
older_server_gap	NUMERIC(19)	interval when products at stations are considered relevant
downgrade	INTEGER DEFAULT '0'	allow components downgrade

### Table indexes

Index name	Index type	Fields list
policy_updmap_pkey	table primary key	id

### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id



## policy\_updmap\_lst

Limitations on updates of stations from the Server in the settings of policy previous versions.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	policy ID
version	NUMERIC(17) NOT NULL	policy version
policy	INTEGER DEFAULT '0'	update policy, see update-policy .ds/.h
bandwidth	INTEGER	maximal transmission speed, NULL for unlimited
beactual	INTEGER DEFAULT '0'	send to stations all last updates instead of marked as current
older_agent_ignore	INTEGER	ignore the messages on aging of virus databases from stations
older_server_gap	NUMERIC(19)	interval when products at stations are considered relevant
downgrade	INTEGER DEFAULT '0'	allow components downgrade

### Table indexes

Index name	Index type	Fields list
policy_updmap_lst_pkey	table primary key clustering index	id, version

### Table references

Field name	Direction	Referenced table field
id	→	policy_list.id



## 2.2.13. Other Objects Configuration

### cfg\_refs

References between entities configurations.

#### Table fields

Field name	Field type	Description
parent	VARCHAR(36) NOT NULL	parent entity ID
seq	INTEGER NOT NULL	reference sequence number
child	VARCHAR(36) NOT NULL	child entity ID

#### Table indexes

Index name	Index type	Fields list
cfg_refs_0001	simple table index	child
cfg_refs_pkey	table primary key clustering index	parent, seq

### profile\_cfg

Anti-virus components configuration for profiles.

#### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	profile UUID
component	INTEGER NOT NULL	component ID
name	VARCHAR(255) NOT NULL	parameter key
seq	INTEGER NOT NULL	sequence number of parameter value
value	CLOB DEFAULT ""	parameter value



Field name	Field type	Description
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
profile_cfg_pkey	table primary key clustering index	id, component, name, seq

## user\_cfg

Anti-virus components configuration for users.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) DEFAULT ''	station ID (empty for Active Directory user/group)
sid	VARCHAR(255) NOT NULL	user/group SID, local or Active Directory (msad_object)
component	INTEGER NOT NULL	component ID
name	VARCHAR(255) NOT NULL	option name
seq	INTEGER NOT NULL	option sequence number
value	CLOB DEFAULT ''	option value
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
user_cfg_0001	unique table index clustering index	id, sid, component, name, seq



## Table references

Field name	Direction	Referenced table field
id	→	stations.id



## 2.2.14. Server Events

### activity\_data

Attributes of administrators actions audit.

#### Table fields

Field name	Field type	Description
record	VARCHAR(36) NOT NULL	record UUID
item	TEXT DEFAULT ""	parameter number
value	CLOB DEFAULT ""	parameter value
createtime	NUMERIC(17) NOT NULL	record creation time

#### Table indexes

Index name	Index type	Fields list
activity_data_0001	simple table index clustering index	record
activity_data_0002	simple table index	createtime

#### Table references

Field name	Direction	Referenced table field
record	→	admin_activity.record



## admin\_activity

Audit of administrators actions.

### Table fields

Field name	Field type	Description
record	VARCHAR(36) NOT NULL	record UUID
login	VARCHAR(36) DEFAULT ''	administrator login name
address	TEXT DEFAULT ''	administrator network address
subsys	INTEGER DEFAULT '0'	operation initiator: adm-subsys .ds/.h
objid	VARCHAR(36) DEFAULT ''	administrated object (group/station) ID
oper	INTEGER DEFAULT '0'	operation
status	INTEGER DEFAULT '0'	operation status: adm-status .ds/.h
createtime	NUMERIC(17) NOT NULL	record creation time

### Table indexes

Index name	Index type	Fields list
admin_activity_0001	simple table index clustering index	createtime
admin_activity_pkey	table primary key	record

## admin\_msg\_log

Log of messages sent by administrator to stations.

### Table fields

Field name	Field type	Description
sid	VARCHAR(36) NOT NULL	ID of the station to which the message was sent



Field name	Field type	Description
mid	VARCHAR(36) NOT NULL	message UUID
admin	VARCHAR(36) NOT NULL	UUID of the administrator who sent the message
subsys	INTEGER DEFAULT '0'	operation initiator: adm-subsys .ds/.h
delivered	NUMERIC(17) DEFAULT '0'	message delivery time

### Table indexes

Index name	Index type	Fields list
admin_msg_log_0001	simple table index	mid
admin_msg_log_0002	simple table index	sid
admin_msg_log_0003	simple table index	admin
admin_msg_log_pkey	table primary key	sid, mid

### Table references

Field name	Direction	Referenced table field
admin	→	admins.id
mid	↔	admin_msg_lst.mid

## group\_history

Log of operations with tariff groups (AV-Desk only).

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	group ID
oper	INTEGER DEFAULT '0'	operations, see st-history-values.ds
parent	VARCHAR(36) DEFAULT ''	parent ID





Field name	Field type	Description
date1	NUMERIC(17) DEFAULT '0'	component number when changing installing components
date2	NUMERIC(17) DEFAULT '0'	value for group_install.imode
created	NUMERIC(17) DEFAULT '0'	record creation time

### Table indexes

Index name	Index type	Fields list
group_history_0001	simple table index clustering index	id

## online\_statistics

Statistics on detected threats sent to Doctor Web company.

### Table fields

Field name	Field type	Description
station	VARCHAR(36) DEFAULT ''	originator station ID
sid	VARCHAR(36) DEFAULT ''	not empty if being processed now
recordtime	NUMERIC(12) NOT NULL	unix timestamp, rounded to an hour
virus	VARCHAR(4000) DEFAULT ''	empty if it is the `scanned` record
amount	NUMERIC(19) DEFAULT '1'	amount

### Table indexes

Index name	Index type	Fields list
online_statistics_0001	simple table index clustering index	sid, recordtime



## server\_jobs\_log

Log of tasks execution on the Server.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	record originator (Server ID)
name	INTEGER DEFAULT '0'	task name, ref cat_job
done	INTEGER DEFAULT '0'	0 if the task failed, != 0 if OK
completed	NUMERIC(17) NOT NULL	task completion time
error	INTEGER DEFAULT '0'	error message

### Table indexes

Index name	Index type	Fields list
server_jobs_log_0001	simple table index clustering index	completed, id

### Table references

Field name	Direction	Referenced table field
error	↔	cat_job_srv.id
name	↔	cat_job.id



## station\_history

Operations log for financial report on stations (AV-Desk only).

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
oper	INTEGER DEFAULT '0'	operations, see st-history-values .ds/.h
rate	VARCHAR(36) DEFAULT ''	tariff ID
date1	NUMERIC(17) DEFAULT '0'	1st date for the period start (station creation, station expiration) or grace period duration
date2	NUMERIC(17) DEFAULT '0'	2nd date for the period end
created	NUMERIC(17) NOT NULL	record creation time

### Table indexes

Index name	Index type	Fields list
station_history_0001	simple table index clustering index	created, id
station_history_0002	simple table index	id
station_history_0003	simple table index	id, oper

## update\_srv\_files

Log of the Server repository files updates.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	update UUID, see update_srv_history
filename	INTEGER DEFAULT '0'	file name



Field name	Field type	Description
filehash	TEXT DEFAULT ''	file hash
filesize	NUMERIC(19) DEFAULT '0'	file size
fileaction	INTEGER DEFAULT '0'	action: 0 - add, 1 - replace, 2 - delete
starttime	NUMERIC(17) DEFAULT '0'	update start time, see update_srv_history

### Table indexes

Index name	Index type	Fields list
update_srv_files_0001	simple table index	id
update_srv_files_0002	simple table index clustering index	starttime

### Table references

Field name	Direction	Referenced table field
filename	↔	cat_upd_files.id
id	→	update_srv_history.id

## update\_srv\_history

Log of the Server repository updates.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	update UUID
sid	VARCHAR(36) NOT NULL	server ID
login	INTEGER DEFAULT '0'	administrator login name
address	TEXT DEFAULT ''	administrator network address



Field name	Field type	Description
src	INTEGER DEFAULT '0'	initiator, see update-source .ds/.h
product	INTEGER DEFAULT '0'	product ID
descr	INTEGER DEFAULT '0'	product description
starttime	NUMERIC(17) DEFAULT '0'	start date
endtime	NUMERIC(17) DEFAULT '0'	end date
rc	INTEGER DEFAULT '0'	completion code
crevision	NUMERIC(17) DEFAULT '0'	current revision (DB time)
nrevision	NUMERIC(17) DEFAULT '0'	new revision (DB time)

### Table indexes

Index name	Index type	Fields list
update_srv_history_0001	simple table index clustering index	starttime
update_srv_history_pkey	table primary key	id

### Table references

Field name	Direction	Referenced table field
descr	↔	cat_upd_descr.id
login	↔	cat_upd_admin.id
product	↔	cat_upd_product.id



## user\_activity

Actions audit of Subscriptions Control Center users (AV-Desk only).

### Table fields

Field name	Field type	Description
record	VARCHAR(36) NOT NULL	record UUID
login	VARCHAR(36) DEFAULT ''	user login name
address	TEXT DEFAULT ''	user network address
subsys	INTEGER DEFAULT '0'	operation initiator, see adm-subsys .ds/.h
objid	VARCHAR(36) DEFAULT ''	user object (group/station) ID
oper	INTEGER DEFAULT '0'	operation
status	INTEGER DEFAULT '0'	operation status, see adm-status .ds/.h
createtime	NUMERIC(17) NOT NULL	record creation time

### Table indexes

Index name	Index type	Fields list
user_activity_0001	simple table index clustering index	createtime
user_activity_pkey	table primary key	record

## user\_activity\_data

Attributes of actions audit of Subscriptions Control Center users (AV-Desk only).

### Table fields

Field name	Field type	Description
record	VARCHAR(36) NOT NULL	record UUID
item	TEXT DEFAULT ''	parameter number



Field name	Field type	Description
value	CLOB DEFAULT ''	parameter value
createtime	NUMERIC(17) NOT NULL	record creation time

### Table indexes

Index name	Index type	Fields list
user_activity_data_0001	simple table index clustering index	record
user_activity_data_0002	simple table index	createtime

### Table references

Field name	Direction	Referenced table field
record	→	user_activity.record

## 2.2.15. Stations Events

### quarantine\_actions

Actions on objects moved to quarantine on stations.

### Table fields

Field name	Field type	Description
opid	VARCHAR(36) NOT NULL	operation UUID
id	VARCHAR(36) DEFAULT ''	station ID
object	VARCHAR(128) DEFAULT ''	file name in quarantine
qtime	NUMERIC(17) DEFAULT '0'	time of the adding file
opname	VARCHAR(64) DEFAULT ''	name of the operation
opresult	VARCHAR(64) DEFAULT ''	result of the operation



Field name	Field type	Description
created	NUMERIC(17) DEFAULT '0'	record creation time

### Table indexes

Index name	Index type	Fields list
quarantine_actions_0001	simple table index	opid

## station\_appctl\_event

Statistics on Application Control events on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
sid	INTEGER NOT NULL	user SID
username	INTEGER NOT NULL	user name
type	INTEGER NOT NULL	event type (app_control_event_type_t)
act	INTEGER NOT NULL	applied action (app_control_event_result_t)
policy_type	INTEGER NOT NULL	functional analysis criterion
policy_mask	NUMERIC(19) NOT NULL	functional analysis mask
profile_id	VARCHAR(36) DEFAULT ''	profile UUID
profile_name	INTEGER NOT NULL	profile name
rule_id	VARCHAR(36) DEFAULT ''	rule UUID
rule_name	INTEGER NOT NULL	rule name
test_mode	INTEGER NOT NULL	whether event occurred in test mode
process_path	INTEGER NOT NULL	process file path
process	INTEGER NOT NULL	process information
process_hashdb	INTEGER DEFAULT '0'	bulletin with process hash, see cat_hashdb





Field name	Field type	Description
object_path	INTEGER NOT NULL	script file path
object	INTEGER NOT NULL	script file information
object_hashdb	INTEGER DEFAULT '0'	bulletin with script hash, see cat_hashdb
eventtime	NUMERIC(17) DEFAULT '0'	event occurrence time, GMT
recvtime	NUMERIC(17) DEFAULT '0'	time when the message on event is received, GMT
notified	INTEGER DEFAULT '0'	whether a message was sent (1 - yes, 0 - no)

### Table indexes

Index name	Index type	Fields list
station_appctl_event_0001	simple table index clustering index	recvtime
station_appctl_event_0002	simple table index	id

### Table references

Field name	Direction	Referenced table field
id	→	stations.id
object	↔	appctl_event_file.id
object_hashdb	↔	cat_hashdb.id
object_path	↔	cat_path.id
process	↔	appctl_event_file.id
process_hashdb	↔	cat_hashdb.id
process_path	↔	cat_path.id
profile_name	↔	cat_profile_name.id



Field name	Direction	Referenced table field
rule_name	↔	cat_rule_name.id
sid	↔	cat_sid.id
username	↔	cat_users.id

## station\_blocked\_device

Statistics on blocked stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
name	INTEGER DEFAULT '0'	station name
address	TEXT DEFAULT ''	station address
username	INTEGER DEFAULT '0'	run by user
instance	INTEGER DEFAULT '0'	device instance ID
friendly_name	INTEGER DEFAULT '0'	device friendly name
description	INTEGER DEFAULT '0'	device description
class	INTEGER DEFAULT '0'	device class - group GUID
blocktime	NUMERIC(17) NOT NULL	station local timestamp, GMT
blockrecvtime	NUMERIC(17) NOT NULL	receive time, GMT

### Table indexes

Index name	Index type	Fields list
station_blocked_0001	simple table index clustering index	blockrecvtime
station_blocked_0002	simple table index	id



## Table references

Field name	Direction	Referenced table field
class	↔	cat_device_class.id
description	↔	cat_device_descr.id
friendly_name	↔	cat_dev_friendly_name.id
id	→	stations.id
instance	↔	cat_device_instance.id
name	↔	cat_name_stations.id
username	↔	cat_users.id

## station\_deinstallation

Statistics on uninstallations of the Agents on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
station	INTEGER DEFAULT '0'	station name
seenfrom	TEXT DEFAULT ''	network address of the last connection
message	CLOB DEFAULT ''	completion message
createtime	NUMERIC(17) NOT NULL	record creation time

### Table indexes

Index name	Index type	Fields list
station_deinstallation_0001	simple table index	id, createtime



Index name	Index type	Fields list
	clustering index	

### Table references

Field name	Direction	Referenced table field
id	→	stations.id
station	↔	cat_name_stations.id

## station\_geotracks

The lists of station geographic locations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
tid	VARCHAR(36) NOT NULL	track UUID
sid	VARCHAR(36)	server ID: set while processing
source	INTEGER NOT NULL	geo source class, see geo-source .h/.ds
item	INTEGER NOT NULL	track sequence number
attribute	VARCHAR(64) DEFAULT ""	attribute ID
value	VARCHAR(100) DEFAULT ""	attribute value as a string
modtime	NUMERIC(17) NOT NULL	last modification timestamp

### Table indexes

Index name	Index type	Fields list
station_geotracks_0003	simple table index	id
station_geotracks_0004	simple table index	sid



## Table references

Field name	Direction	Referenced table field
id	→	stations.id

## station\_hips\_event

Statistics on events detected on stations by the Preventive protection component.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
pid	NUMERIC(12) DEFAULT '4'	process ID
ppath	INTEGER DEFAULT '0'	process path, see cat_path
htype	INTEGER DEFAULT '0'	protected object
tpath	INTEGER DEFAULT '0'	protected object path, see cat_path
stype	INTEGER DEFAULT '0'	reason of execution of unauthorized code blocking
denied	INTEGER DEFAULT '0'	action on a suspicious process: 1 - denied, 0 - allowed
isuser	INTEGER DEFAULT '0'	initiator of the action on a suspicious process: 1 - user , 0 - automatic reaction
ecount	INTEGER DEFAULT '0'	number of denials in case of automatic reaction
euser	INTEGER DEFAULT '0'	initiator of a process, see cat_users
auser	INTEGER DEFAULT '0'	initiator of an action to a process (if isuser = 1), see cat_users
eventtime	NUMERIC(17) DEFAULT '0'	event occurrence time, GMT
recvtime	NUMERIC(17) DEFAULT '0'	time when the message on event is received, GMT
notified	INTEGER DEFAULT '0'	whether a message was sent (1 - yes, 0 - no)



Field name	Field type	Description
sha1	INTEGER DEFAULT '0'	process file SHA-1 hash: cat_hash
sha256	INTEGER DEFAULT '0'	process file SHA-256 hash: cat_hash
hashdb	INTEGER DEFAULT '0'	bulletin with process hash: cat_hashdb

### Table indexes

Index name	Index type	Fields list
station_hips_event_0001	simple table index	id
station_hips_event_0002	simple table index clustering index	recvtime
station_hips_event_0003	simple table index	sha1
station_hips_event_0004	simple table index	sha256

### Table references

Field name	Direction	Referenced table field
ouser	↔	cat_users.id
euser	↔	cat_users.id
hashdb	↔	cat_hashdb.id
id	→	stations.id
ppath	↔	cat_path.id
sha1	↔	cat_hash.id
sha256	↔	cat_hash.id
tpath	↔	cat_path.id



## station\_infection

Statistics on threats detected on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
processid	VARCHAR(36) NOT NULL	process ID
originator	INTEGER NOT NULL	component ID, see documentation
infectionrecvtime	NUMERIC(17) NOT NULL	time when the message on event is received, GMT
infectiontime	NUMERIC(17) NOT NULL	event occurrence time, GMT
type1	NUMERIC(15) DEFAULT '0'	infection type, see documentation
type2	NUMERIC(15) DEFAULT '0'	infection type, see documentation
virus	INTEGER DEFAULT '0'	threat name
object	INTEGER DEFAULT '0'	infected object name
treatment	NUMERIC(15) DEFAULT '0'	action upon a detected object, see documentation
owner	INTEGER DEFAULT '0'	infected object owner
username	INTEGER DEFAULT '0'	user who launched the component
station	INTEGER DEFAULT '0'	station name
address	TEXT DEFAULT ''	station address
group_id	VARCHAR(36) DEFAULT ''	group ID
group_name	INTEGER DEFAULT '0'	group name
login_time	NUMERIC(17) DEFAULT '0'	time when station connected to the Server
notified	INTEGER DEFAULT '0'	whether a message was sent (1 - yes, 0 - no)
st_descr	INTEGER DEFAULT '0'	station description
st_mac	INTEGER DEFAULT '0'	station MAC



Field name	Field type	Description
st_uid	INTEGER DEFAULT '0'	station SID
st_ldapdn	INTEGER DEFAULT '0'	station LDAP DN
sha1	INTEGER DEFAULT '0'	object SHA-1 hash: cat_hash
sha256	INTEGER DEFAULT '0'	object SHA-256 hash: cat_hash
hashdb	INTEGER DEFAULT '0'	bulletin with process hash: cat_hashdb

### Table indexes

Index name	Index type	Fields list
station_infection_0001	simple table index clustering index	infectionrecvtime
station_infection_0002	simple table index	id, processid, originator
station_infection_0003	simple table index	sha1
station_infection_0004	simple table index	sha256

### Table references

Field name	Direction	Referenced table field
group_name	↔	cat_name_groups.id
hashdb	↔	cat_hashdb.id
id	→	stations.id
object	↔	cat_path.id
owner	↔	cat_users.id
sha1	↔	cat_hash.id
sha256	↔	cat_hash.id





Field name	Direction	Referenced table field
st_descr	↔	cat_descr.id
st_ldapdn	↔	cat_ldapdn.id
st_mac	↔	cat_mac.id
st_uid	↔	cat_sid.id
station	↔	cat_name_stations.id
username	↔	cat_users.id
virus	↔	cat_virus.id

## station\_installation

Statistics on installations of the Agents on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station temporary ID
station	INTEGER DEFAULT '0'	station name
seenfrom	TEXT DEFAULT ''	network address of the last connection
message	CLOB DEFAULT ''	failure message
event	INTEGER DEFAULT '0'	event type: Begin, Success, Failed, etc.
starttime	NUMERIC(17) NOT NULL	installation start time
endtime	NUMERIC(17) DEFAULT '0'	installation finish time
sessionid	VARCHAR(36) DEFAULT '' NOT NULL	session ID



## Table indexes

Index name	Index type	Fields list
station_installation_0001	simple table index clustering index	id
station_installation_0002	simple table index	sessionid

## Table references

Field name	Direction	Referenced table field
id	→	stations.id
station	↔	cat_name_stations.id

## station\_jobslog

Log of tasks execution on stations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	record originator (station ID)
name	INTEGER DEFAULT '0'	job name, reference to `cat_job`
done	INTEGER DEFAULT '0'	completion status: 0 if failed, != 0 if OK
completed	NUMERIC(17) NOT NULL	completion time
error	INTEGER DEFAULT '0'	error message

## Table indexes

Index name	Index type	Fields list
station_jobslog_0001	simple table index clustering index	completed, id



## Table references

Field name	Direction	Referenced table field
error	↔	cat_job_stn.id
id	→	stations.id
name	↔	cat_job.id

## station\_procerror

Statistics on scan errors on stations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
processid	VARCHAR(36) NOT NULL	process ID
originator	INTEGER NOT NULL	component ID, see documentation
errrecvtime	NUMERIC(17) NOT NULL	receive time, GMT
errtime	NUMERIC(17) DEFAULT '0'	error occurrence time on station, GMT
object	INTEGER DEFAULT '0'	infected object name
errcode	NUMERIC(15) DEFAULT '0'	error code, see documentation
owner	INTEGER DEFAULT '0'	infected object owner
username	INTEGER DEFAULT '0'	user who launched the component
sha1	INTEGER DEFAULT '0'	object SHA-1 hash: cat_hash
sha256	INTEGER DEFAULT '0'	object SHA-256 hash: cat_hash
hashdb	INTEGER DEFAULT '0'	bulletin with process hash: cat_hashdb



## Table indexes

Index name	Index type	Fields list
station_procerror_0001	simple table index clustering index	errrecvtime
station_procerror_0002	simple table index	id, processid, originator
station_procerror_0003	simple table index	sha1
station_procerror_0004	simple table index	sha256

## Table references

Field name	Direction	Referenced table field
hashdb	↔	cat_hashdb.id
id	→	stations.id
object	↔	cat_path.id
owner	↔	cat_users.id
sha1	↔	cat_hash.id
sha256	↔	cat_hash.id
username	↔	cat_users.id

## station\_run

Statistics on start and stop of anti-virus components operation on stations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID



Field name	Field type	Description
processid	VARCHAR(36) NOT NULL	process ID
originator	INTEGER NOT NULL	component ID, see documentation
engine	NUMERIC(15) DEFAULT '0'	engine version
viruses	NUMERIC(15) DEFAULT '0'	known viruses
rc	NUMERIC(15) DEFAULT '0'	return code
infections	NUMERIC(15) DEFAULT '0'	number of detected threats
errors	NUMERIC(15) DEFAULT '0'	number of occurred errors
username	INTEGER DEFAULT '0'	user who launched the component
beginrecvtime	NUMERIC(17) NOT NULL	time when the message on component start is received, GMT
begintime	NUMERIC(17) DEFAULT '0'	component start time on station, GMT
endrecvtime	NUMERIC(17) NOT NULL	time when the message on component stop is received, GMT
endtime	NUMERIC(17) DEFAULT '0'	component stop time on station, GMT

### Table indexes

Index name	Index type	Fields list
station_run_0001	simple table index	beginrecvtime
station_run_0002	simple table index	endrecvtime
station_run_0003	simple table index clustering index	id, processid, originator

### Table references

Field name	Direction	Referenced table field
id	→	stations.id
username	↔	cat_users.id



## station\_scanstat

Statistics of stations scans by anti-virus components.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
processid	VARCHAR(36) DEFAULT ''	process ID
originator	INTEGER DEFAULT '0'	component ID, see documentation
recievetime	NUMERIC(17) NOT NULL	time when the message on statistic is received, GMT
stationtime	NUMERIC(17) DEFAULT '0'	statistic getting time on station, GMT
scanned	NUMERIC(19) DEFAULT '0'	scanned objects
infected	NUMERIC(19) DEFAULT '0'	infected objects
modifications	NUMERIC(19) DEFAULT '0'	infected by modification
suspicious	NUMERIC(19) DEFAULT '0'	suspicious objects
cured	NUMERIC(19) DEFAULT '0'	cured objects
deleted	NUMERIC(19) DEFAULT '0'	deleted objects
renamed	NUMERIC(19) DEFAULT '0'	renamed objects
moved	NUMERIC(19) DEFAULT '0'	moved objects
locked	NUMERIC(19) DEFAULT '0'	locked objects
activities	NUMERIC(19) DEFAULT '0'	virus activities
errors	NUMERIC(19) DEFAULT '0'	scan errors
prcsize	NUMERIC(19) DEFAULT '0'	processed bytes
prctime	NUMERIC(19) DEFAULT '0'	processing time, seconds
username	TEXT DEFAULT ''	user who launched the component



## Table indexes

Index name	Index type	Fields list
station_scanstat_0004	simple table index	recievetime
station_scanstat_0005	simple table index clustering index	id, recievetime

## Table references

Field name	Direction	Referenced table field
id	→	stations.id

## 2.2.16. Stations Events from Neighbor Server

### srv\_appctl\_event

Statistics on Application Control events on stations of neighbor Server.

#### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	originator ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
lname	INTEGER DEFAULT '0'	neighbor Server name
mid	VARCHAR(36) DEFAULT ''	message UUID
stationname	INTEGER DEFAULT '0'	station name
id	VARCHAR(36) DEFAULT ''	station ID
username	INTEGER NOT NULL	user name
type	INTEGER NOT NULL	event type (app_control_event_type_t)
act	INTEGER NOT NULL	applied action (app_control_event_result_t)



Field name	Field type	Description
policy_type	INTEGER NOT NULL	functional analysis criterion
policy_mask	NUMERIC(19) NOT NULL	functional analysis mask
profile_id	VARCHAR(36) DEFAULT ''	profile UUID
profile_name	INTEGER NOT NULL	profile name
rule_id	VARCHAR(36) DEFAULT ''	rule UUID
rule_name	INTEGER NOT NULL	rule name
test_mode	INTEGER NOT NULL	whether event occurred in test mode
process_path	INTEGER NOT NULL	process file path
process	INTEGER NOT NULL	process information
process_hashdb	INTEGER DEFAULT '0'	bulletin with process hash, see cat_hashdb
object_path	INTEGER NOT NULL	script file path
object	INTEGER NOT NULL	script file information
object_hashdb	INTEGER DEFAULT '0'	bulletin with script hash, see cat_hashdb
eventtime	NUMERIC(17) DEFAULT '0'	event occurrence time, GMT
recvtime	NUMERIC(17) DEFAULT '0'	time when the message on event is received, GMT
arrived	NUMERIC(17) DEFAULT '0'	record modification time
notified	INTEGER DEFAULT '0'	whether a message was sent (1 - yes, 0 - no)

### Table indexes

Index name	Index type	Fields list
srv_appctl_event_0001	simple table index clustering index	recvtime
srv_appctl_event_0002	simple table index	lid, osid





## Table references

Field name	Direction	Referenced table field
lname	↔	cat_name_links.id
object	↔	appctl_event_file.id
object_hashdb	↔	cat_hashdb.id
object_path	↔	cat_path.id
osid	←	srv_recvhistory.mid
process	↔	appctl_event_file.id
process_hashdb	↔	cat_hashdb.id
process_path	↔	cat_path.id
profile_name	↔	cat_profile_name.id
rule_name	↔	cat_rule_name.id
stationname	↔	cat_name_stations.id
username	↔	cat_users.id

## srv\_geolocation

Information on geographic location received from neighbor Servers.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	Server ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
id	VARCHAR(36) DEFAULT ""	station ID, empty if it is a Server



Field name	Field type	Description
name	INTEGER DEFAULT '0'	station name
latitude	INTEGER DEFAULT '0'	latitude, in seconds, +north -south
longitude	INTEGER DEFAULT '0'	longitude, in seconds, +east -west
arrived	NUMERIC(17) NOT NULL	record modification time

### Table indexes

Index name	Index type	Fields list
srv_geolocation_0001	unique table index clustering index	id, lid, osid

### Table references

Field name	Direction	Referenced table field
name	↔	cat_name_stations.id

## srv\_hips\_event

Statistics on events detected on stations of neighbor Server by the Preventive protection component.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	originator ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
lname	INTEGER DEFAULT '0'	neighbor Server name
mid	VARCHAR(36) DEFAULT ''	message UUID
stationname	INTEGER DEFAULT '0'	station name
id	VARCHAR(36) DEFAULT ''	station ID



Field name	Field type	Description
pid	NUMERIC(12) DEFAULT '4'	process ID
ppath	INTEGER DEFAULT '0'	process path, see cat_path
htype	INTEGER DEFAULT '0'	protected object
tpath	INTEGER DEFAULT '0'	protected object path, see cat_path
stype	INTEGER DEFAULT '0'	reason of execution of unauthorized code blocking
denied	INTEGER DEFAULT '0'	action on a suspicious process: 1 - denied, 0 - allowed
isuser	INTEGER DEFAULT '0'	initiator of the action on a suspicious process: 1 - user , 0 - automatic reaction
ecount	INTEGER DEFAULT '0'	number of denials in case of automatic reaction
euser	INTEGER DEFAULT '0'	initiator of a process, see cat_users
auser	INTEGER DEFAULT '0'	initiator of an action to a process (if isuser = 1), see cat_users
eventtime	NUMERIC(17) DEFAULT '0'	event occurrence time on station, GMT
recvtime	NUMERIC(17) DEFAULT '0'	time when the message on event is received, GMT
arrived	NUMERIC(17) NOT NULL	record creation
notified	INTEGER DEFAULT '0'	whether a message was sent (1 - yes, 0 - no)
sha1	INTEGER DEFAULT '0'	process file SHA-1 hash, see cat_hash
sha256	INTEGER DEFAULT '0'	process file SHA-256 hash, see cat_hash
hashdb	INTEGER DEFAULT '0'	bulletin with process hash, see cat_hashdb

### Table indexes

Index name	Index type	Fields list
srv_hips_event_0001	simple table index clustering index	recvtime



Index name	Index type	Fields list
srv_hips_event_0002	simple table index	lid, osid
srv_hips_event_0003	simple table index	sha1
srv_hips_event_0004	simple table index	sha256

### Table references

Field name	Direction	Referenced table field
ouser	↔	cat_users.id
euser	↔	cat_users.id
hashdb	↔	cat_hashdb.id
osid	←	srv_recvhistory.mid
ppath	↔	cat_path.id
sha1	↔	cat_hash.id
sha256	↔	cat_hash.id
tpath	↔	cat_path.id

### srv\_infection

Statistics on threats detected on stations of neighbor Server.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	originator ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
lname	INTEGER DEFAULT '0'	neighbor Server name



Field name	Field type	Description
mid	VARCHAR(36) DEFAULT ''	message UUID
stationname	INTEGER DEFAULT '0'	station name
id	VARCHAR(36) DEFAULT ''	station ID
processid	VARCHAR(36) DEFAULT ''	process ID
originator	INTEGER DEFAULT '0'	component ID, see documentation
infectionrecvtime	NUMERIC(17) NOT NULL	time when the message on event is received, GMT
infectiontime	NUMERIC(17) DEFAULT '0'	event occurrence time on station, GMT
type1	NUMERIC(15) DEFAULT '0'	infection type, see documentation
type2	NUMERIC(15) DEFAULT '0'	infection type, see documentation
virus	INTEGER DEFAULT '0'	threat name
object	INTEGER DEFAULT '0'	infected object name
treatment	NUMERIC(15) DEFAULT '0'	action upon a detected object, see documentation
owner	INTEGER DEFAULT '0'	infected object owner
username	INTEGER DEFAULT '0'	user who launched the component
arrived	NUMERIC(17) NOT NULL	record creation
notified	INTEGER DEFAULT '0'	whether a message was sent (1 - yes, 0 - no)
sha1	INTEGER DEFAULT '0'	object SHA-1 hash, see cat_hash
sha256	INTEGER DEFAULT '0'	object SHA-256 hash, see cat_hash
hashdb	INTEGER DEFAULT '0'	bulletin with process hash, see cat_hashdb

### Table indexes

Index name	Index type	Fields list
srv_infection_0001	simple table index clustering index	infectionrecvtime



Index name	Index type	Fields list
srv_infection_0002	simple table index	lid, osid
srv_infection_0003	simple table index	sha1
srv_infection_0004	simple table index	sha256

### Table references

Field name	Direction	Referenced table field
hashdb	↔	cat_hashdb.id
lname	↔	cat_name_links.id
object	↔	cat_path.id
osid	←	srv_recvhistory.mid
owner	↔	cat_users.id
sha1	↔	cat_hash.id
sha256	↔	cat_hash.id
stationname	↔	cat_name_stations.id
username	↔	cat_users.id
virus	↔	cat_virus.id

## srv\_installation

Statistics on installations of the Agents on stations of neighbor Server.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	originator ID



Field name	Field type	Description
lid	VARCHAR(36) NOT NULL	interserver connection UUID
lname	INTEGER DEFAULT '0'	neighbor Server name
mid	VARCHAR(36) DEFAULT ''	message UUID
id	VARCHAR(36) DEFAULT ''	station temporary ID
station	INTEGER DEFAULT '0'	station name
seenfrom	TEXT DEFAULT ''	network address of the last connection
message	CLOB DEFAULT ''	failure message
event	INTEGER DEFAULT '0'	event type: Begin, Success, Failed, etc.
starttime	NUMERIC(17) NOT NULL	installation start time
endtime	NUMERIC(17) NOT NULL	installation finish time
arrived	NUMERIC(17) NOT NULL	record creation

### Table indexes

Index name	Index type	Fields list
srv_installation_0001	simple table index clustering index	starttime
srv_installation_0002	simple table index	lid, osid

### Table references

Field name	Direction	Referenced table field
lname	↔	cat_name_links.id
osid	←	srv_recvhistory.mid
station	↔	cat_name_stations.id



## srv\_proccerror

Statistics on scan errors on stations of neighbor Server.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	originator ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
lname	INTEGER DEFAULT '0'	neighbor Server name
mid	VARCHAR(36) DEFAULT ''	message UUID
stationname	INTEGER DEFAULT '0'	station name
id	VARCHAR(36) DEFAULT ''	station ID
processid	VARCHAR(36) DEFAULT ''	process ID
originator	INTEGER DEFAULT '0'	component ID, see documentation
errrecvtime	NUMERIC(17) NOT NULL	time when the message on error is received, GMT
errtime	NUMERIC(17) DEFAULT '0'	error occurrence time on station, GMT
object	INTEGER DEFAULT '0'	infected object name
errcode	NUMERIC(15) DEFAULT '0'	error code, see documentation
owner	INTEGER DEFAULT '0'	infected object owner
username	INTEGER DEFAULT '0'	user who launched the component
arrived	NUMERIC(17) NOT NULL	record creation
sha1	INTEGER DEFAULT '0'	object SHA-1 hash: cat_hash
sha256	INTEGER DEFAULT '0'	object SHA-256 hash: cat_hash
hashdb	INTEGER DEFAULT '0'	bulletin with process hash: cat_hashdb





## Table indexes

Index name	Index type	Fields list
srv_procerror_0001	simple table index clustering index	errrecvtime
srv_procerror_0002	simple table index	lid, osid
srv_procerror_0003	simple table index	sha1
srv_procerror_0004	simple table index	sha256

## Table references

Field name	Direction	Referenced table field
hashdb	↔	cat_hashdb.id
lname	↔	cat_name_links.id
object	↔	cat_path.id
osid	←	srv_recvhistory.mid
owner	↔	cat_users.id
sha1	↔	cat_hash.id
sha256	↔	cat_hash.id
stationname	↔	cat_name_stations.id
username	↔	cat_users.id



## srv\_recvhistory

Event log received from the neighbor Servers.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	originator ID
mid	VARCHAR(36) NOT NULL	message UUID
arrived	NUMERIC(17) NOT NULL	record creation

### Table indexes

Index name	Index type	Fields list
srv_recvhistory_pkey	table primary key	osid, mid

## srv\_run

Statistics on start and stop of anti-virus components operation on stations of neighbor Server.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	originator ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
lname	INTEGER DEFAULT '0'	neighbor Server name
mid	VARCHAR(36) DEFAULT ''	message UUID
stationname	INTEGER DEFAULT '0'	station name
id	VARCHAR(36) NOT NULL	station ID
processid	VARCHAR(36) NOT NULL	process ID
originator	INTEGER NOT NULL	component ID, see documentation



Field name	Field type	Description
engine	NUMERIC(15) DEFAULT '0'	engine version
viruses	NUMERIC(15) DEFAULT '0'	known viruses
rc	NUMERIC(15) DEFAULT '0'	return code
infections	NUMERIC(15) DEFAULT '0'	number of detected threats
errors	NUMERIC(15) DEFAULT '0'	number of occurred errors
username	INTEGER DEFAULT '0'	user who launched the component
beginrecvtime	NUMERIC(17) NOT NULL	time when the message on component start is received, GMT
begintime	NUMERIC(17) DEFAULT '0'	component start time on station, GMT
endrecvtime	NUMERIC(17) NOT NULL	time when the message on component stop is received, GMT
endtime	NUMERIC(17) DEFAULT '0'	component stop time on station, GMT
arrived	NUMERIC(17) NOT NULL	record creation

### Table indexes

Index name	Index type	Fields list
srv_run_0001	simple table index clustering index	beginrecvtime, lid, osid
srv_run_0002	simple table index	id, processid, originator, osid

### Table references

Field name	Direction	Referenced table field
lname	↔	cat_name_links.id
osid	←	srv_recvhhistory.mid
stationname	↔	cat_name_stations.id



Field name	Direction	Referenced table field
username	↔	cat_users.id

## srv\_scanstat

Statistics of neighbor Server stations scans by anti-virus components.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	originator ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
lname	INTEGER DEFAULT '0'	neighbor Server name
mid	VARCHAR(36) DEFAULT ''	message UUID
stationname	INTEGER DEFAULT '0'	station name
id	VARCHAR(36) NOT NULL	station ID
processid	VARCHAR(36) DEFAULT ''	process ID
originator	INTEGER DEFAULT '0'	component ID, see documentation
recievetime	NUMERIC(17) NOT NULL	time when the message on statistic is received, GMT
stationtime	NUMERIC(17) DEFAULT '0'	statistic getting time on station, GMT
scanned	NUMERIC(19) DEFAULT '0'	scanned objects
infected	NUMERIC(19) DEFAULT '0'	infected objects
modifications	NUMERIC(19) DEFAULT '0'	infected by modification
suspicious	NUMERIC(19) DEFAULT '0'	suspicious objects
cured	NUMERIC(19) DEFAULT '0'	cured objects
deleted	NUMERIC(19) DEFAULT '0'	deleted objects
renamed	NUMERIC(19) DEFAULT '0'	renamed objects
moved	NUMERIC(19) DEFAULT '0'	moved objects



Field name	Field type	Description
locked	NUMERIC(19) DEFAULT '0'	locked objects
activities	NUMERIC(19) DEFAULT '0'	virus activities
errors	NUMERIC(19) DEFAULT '0'	scan errors
prcsize	NUMERIC(19) DEFAULT '0'	processed bytes
prctime	NUMERIC(19) DEFAULT '0'	processing time, seconds
arrived	NUMERIC(17) NOT NULL	record creation
username	INTEGER DEFAULT '0'	user who launched the component

### Table indexes

Index name	Index type	Fields list
srv_scanstat_0001	simple table index clustering index	recievetime
srv_scanstat_0002	simple table index	lid, osid

### Table references

Field name	Direction	Referenced table field
lname	↔	cat_name_links.id
osid	←	srv_recvhistory.mid
stationname	↔	cat_name_stations.id
username	↔	cat_users.id



## 2.2.17. Server Status

### news\_known\_did

The list of known news categories.

#### Table fields

Field name	Field type	Description
sid	VARCHAR(36) NOT NULL	server ID
did	VARCHAR(36) NOT NULL	news sections ID
createtime	NUMERIC(17) DEFAULT '0'	creation time

#### Table indexes

Index name	Index type	Fields list
news_known_did_pkey	table primary key clustering index	did, sid

### news\_readstatus

Read status of Doctor Web company news.

#### Table fields

Field name	Field type	Description
sid	VARCHAR(36) NOT NULL	server ID
aid	VARCHAR(36) NOT NULL	admin UUID
did	VARCHAR(36) NOT NULL	news sections ID
nid	VARCHAR(36) NOT NULL	news article ID
ifile	VARCHAR(4000) NOT NULL	news article disk path
nstate	INTEGER NOT NULL	article state: 0 - unread, 1 - read



### Table indexes

Index name	Index type	Fields list
news_readstatus_0001	simple table index	aid, nstate
news_readstatus_0002	simple table index	did, sid
news_readstatus_pkey	table primary key clustering index	sid, aid, did, nid

### Table references

Field name	Direction	Referenced table field
aid	→	admins.id
did	→	news_known_did.did

## news\_revision

Revisions numbers in the Server repository for Doctor Web company news.

### Table fields

Field name	Field type	Description
sid	VARCHAR(36) NOT NULL	server ID
revision	NUMERIC(17) NOT NULL	revision number (DB time)

### Table indexes

Index name	Index type	Fields list
news_revision_pkey	table primary key clustering index	sid, revision



## news\_summary

General information on the section of Doctor Web company news.

### Table fields

Field name	Field type	Description
sid	VARCHAR(36) NOT NULL	server ID
aid	VARCHAR(36) NOT NULL	admin UUID
unread	INTEGER DEFAULT '0'	number of unread articles
autosubscribe	INTEGER DEFAULT '1'	autosubscribe to new divisions
arrived	NUMERIC(17) DEFAULT '0'	unread news arrival time

### Table indexes

Index name	Index type	Fields list
news_summary_pkey	table primary key clustering index	aid, sid

### Table references

Field name	Direction	Referenced table field
aid	→	admins.id

## server\_status

General information about the Server.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	Server ID





Field name	Field type	Description
state	INTEGER DEFAULT '0'	Server state: 0 for offline
marker	NUMERIC(17) DEFAULT '0'	alive time
uptime	NUMERIC(19) DEFAULT '0'	uptime, seconds
flavour	VARCHAR(512) DEFAULT ''	product: Enterprise/AV-Desk/etc
version	VARCHAR(512) DEFAULT ''	Server version
cpu	VARCHAR(512) DEFAULT ''	CPU type
os	VARCHAR(512) DEFAULT ''	operating system
platform	NUMERIC(12) DEFAULT '0'	host platform
os_full	VARCHAR(512) DEFAULT ''	full operating system (uname)
distrib	VARCHAR(512) DEFAULT ''	installed distributive
host	VARCHAR(512) DEFAULT ''	host name
clients_total	NUMERIC(17) DEFAULT '0'	connections from start
clients_maximum	NUMERIC(17) DEFAULT '0'	maximum connections
total_clients	NUMERIC(17) DEFAULT '0'	total clients now
total_agents	NUMERIC(17) DEFAULT '0'	total Agents now
total_newbies	NUMERIC(17) DEFAULT '0'	total newbies now
total_installs	NUMERIC(17) DEFAULT '0'	total installers now
total_links	NUMERIC(17) DEFAULT '0'	total neighbor Servers now
total_proxies	NUMERIC(17) DEFAULT '0'	total Proxies now
bytes_in	NUMERIC(17) DEFAULT '0'	bytes recieved
bytes_out	NUMERIC(17) DEFAULT '0'	bytes sent

### Table indexes

Index name	Index type	Fields list
server_status_0001	simple table index	id



## update\_srv\_delayed

The list of delayed updates in the Server repository.

### Table fields

Field name	Field type	Description
product	VARCHAR(36) NOT NULL	product ID
revision	NUMERIC(17) NOT NULL	revision number (DB time)
duetime	NUMERIC(17) NOT NULL	delayed until

### Table indexes

Index name	Index type	Fields list
update_srv_delayed_pkey	table primary key	product

## 2.2.18. Stations Status

### client\_disconnect

Abnormally terminated connections with clients.

### Table fields

Field name	Field type	Description
uuid	VARCHAR(36)	client ID
type	INTEGER NOT NULL	client type, see client-type.hjds
addr	VARCHAR(512) NOT NULL	client address
name	INTEGER	client name
mac	INTEGER	client MAC
sid	INTEGER	client SID
descr	INTEGER	client description



Field name	Field type	Description
ldapdn	INTEGER	client LDAP DN
disconnat	NUMERIC(17) NOT NULL	client disconnection timestamp
duration	INTEGER NOT NULL	client session duration, in seconds
reason	CLOB NOT NULL	diconnect reason
notified	INTEGER DEFAULT '0'	whether a message was sent (0 - no, 1 - yes, 2 - delay)

### Table indexes

Index name	Index type	Fields list
client_disconnect_0001	simple table index clustering index	disconnat
client_disconnect_0002	simple table index	addr, type

### Table references

Field name	Direction	Referenced table field
descr	↔	cat_descr.id
ldapdn	↔	cat_ldapdn.id
mac	↔	cat_mac.id
name	↔	cat_name_stations.id
sid	↔	cat_sid.id



## once\_job\_done

Scheduler tasks for stations executed once.

### Table fields

Field name	Field type	Description
jid	VARCHAR(36) NOT NULL	task UUID
sid	VARCHAR(36) NOT NULL	ID of the station to execute the task
source	INTEGER NOT NULL	source type, see hier-traverse-source.ds
oid	VARCHAR(36) NOT NULL	source ID (group/policy/station)
created	NUMERIC(17) DEFAULT '0'	record creation time

### Table indexes

Index name	Index type	Fields list
once_job_done_pkey	table primary key	jid, sid, source, oid

## station\_components

Information on anti-virus components installed on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
component	INTEGER DEFAULT '0'	component name
instdate	NUMERIC(17) DEFAULT '0'	installation date
server	INTEGER DEFAULT '0'	installation Server: @name_stations
path	INTEGER DEFAULT '0'	installation path: @path
modtime	NUMERIC(17) NOT NULL	record modification time



## Table indexes

Index name	Index type	Fields list
station_components_0001	simple table index clustering index	id

## Table references

Field name	Direction	Referenced table field
id	→	stations.id
path	↔	cat_path.id
server	↔	cat_name_stations.id

## station\_env\_hash

Hash list of information states about hardware and software on stations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
category	INTEGER NOT NULL	environment category, see runtime::environment::category
hash	VARCHAR(128) NOT NULL	environment category hash
createtime	NUMERIC(17) NOT NULL	record creation time

## Table indexes

Index name	Index type	Fields list
station_env_hash_pkey	table primary key clustering index	id, category



## station\_env\_hw

Detailed information on hardware on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
type	INTEGER NOT NULL	device type, see st-db-env-hw
name	INTEGER NOT NULL	device name, reference to `env_strings`
vendor	INTEGER NOT NULL	device vendor, reference to `env_strings`
info1	NUMERIC(11) NOT NULL	device info, line #1
info2	NUMERIC(11) NOT NULL	device info, line #2

### Table indexes

Index name	Index type	Fields list
station_env_hw_0001	simple table index clustering index	id

### Table references

Field name	Direction	Referenced table field
id	→	stations.id
name	←	env_strings.id
vendor	←	env_strings.id



## station\_env\_kb

Detailed information on Windows OS updates installed on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
name	INTEGER NOT NULL	Windows update name, reference to `env_strings`

### Table indexes

Index name	Index type	Fields list
station_env_kb_0001	simple table index clustering index	id

### Table references

Field name	Direction	Referenced table field
id	→	stations.id
name	←	env_strings.id

## station\_env\_sw

Detailed information on software on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
name	INTEGER NOT NULL	software name, reference to `env_strings`



Field name	Field type	Description
version	INTEGER NOT NULL	software version, reference to `env_strings`
vendor	INTEGER NOT NULL	software vendor, reference to `env_strings`
disksize	INTEGER NOT NULL	software size on disk, MB

### Table indexes

Index name	Index type	Fields list
station_env_sw_0001	simple table index clustering index	id

### Table references

Field name	Direction	Referenced table field
id	→	stations.id
name	←	env_strings.id
vendor	←	env_strings.id
version	←	env_strings.id

## station\_logins

Information on connections of stations to the Server.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
machine_id	INTEGER DEFAULT '0' NOT NULL	machine UID





Field name	Field type	Description
machine_mac	INTEGER DEFAULT '0' NOT NULL	machine MAC address
addr	VARCHAR(512) NOT NULL	network address
name	INTEGER DEFAULT '0'	station name
lastseenat	NUMERIC(17) DEFAULT '0'	time of the last connection
logged_in	INTEGER DEFAULT '0'	login status: 0 if failed, != 0 if OK

### Table indexes

Index name	Index type	Fields list
station_logins_pkey	table primary key clustering index	id, machine_id, machine_mac, addr

### Table references

Field name	Direction	Referenced table field
id	→	stations.id
machine_id	↔	cat_sid.id
machine_mac	↔	cat_mac.id
name	↔	cat_name_stations.id

## station\_modules

Information on anti-virus components modules installed on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID



Field name	Field type	Description
name	INTEGER NOT NULL	file name, reference to `cat_mod_name`
owner	INTEGER DEFAULT '0'	file owner, reference to `cat_users`
fsize	NUMERIC(17) DEFAULT '0'	file size
md5	INTEGER DEFAULT '0'	file MD5, reference to `cat_mod_md5`
ctime	NUMERIC(17) DEFAULT '0'	file creation time
mtime	NUMERIC(17) DEFAULT '0'	file modification time
version	INTEGER DEFAULT '0'	module version, reference to `cat_mod_ver`
descr	INTEGER DEFAULT '0'	module description, reference to `cat_mod_descr`
createtime	NUMERIC(17) DEFAULT '0'	record create time

### Table indexes

Index name	Index type	Fields list
station_modules_0001	simple table index clustering index	id

### Table references

Field name	Direction	Referenced table field
descr	↔	cat_mod_descr.id
id	→	stations.id
md5	↔	cat_mod_md5.id
name	↔	cat_mod_name.id
owner	↔	cat_users.id
version	↔	cat_mod_ver.id



## station\_netaddr

The list of network interfaces on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
ifname	TEXT DEFAULT ''	interface name
iffrname	TEXT DEFAULT ''	interface friendly name
ifdesc	TEXT DEFAULT ''	interface description
addr	TEXT DEFAULT ''	interface address
mask	TEXT DEFAULT ''	interface mask
mac	VARCHAR(128) NOT NULL	interface MAC address
modtime	NUMERIC(17) DEFAULT '0'	record modification time

### Table indexes

Index name	Index type	Fields list
station_netaddr_0001	simple table index clustering index	id
station_netaddr_0002	simple table index	mac

### Table references

Field name	Direction	Referenced table field
id	→	stations.id



## station\_netinstid

Identifiers of network installers used for the Agent installation on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
nid	VARCHAR(36) DEFAULT ''	network installer ID

### Table indexes

Index name	Index type	Fields list
station_netinstid_0001	simple table index clustering index	id

### Table references

Field name	Direction	Referenced table field
id	→	stations.id

## station\_os\_devgroups

Devices classes on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
name	INTEGER DEFAULT '0'	group name
description	INTEGER DEFAULT '0'	group description
guid	VARCHAR(38) NOT NULL	group GUID



## Table indexes

Index name	Index type	Fields list
station_os_devgroups_pkey	table primary key clustering index	id, guid

## Table references

Field name	Direction	Referenced table field
description	↔	cat_dev_group_descr.id
id	→	stations.id
name	↔	cat_dev_group_name.id

## station\_os\_devices

The list of devices on stations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
instance	INTEGER DEFAULT '0' NOT NULL	device instance ID
friendly_name	INTEGER DEFAULT '0'	device friendly name
description	INTEGER DEFAULT '0'	device description
capabilities	INTEGER DEFAULT '0'	device capabilities
class	INTEGER DEFAULT '0'	device class - group GUID



## Table indexes

Index name	Index type	Fields list
station_os_devices_pkey	table primary key clustering index	id, instance

## Table references

Field name	Direction	Referenced table field
class	↔	cat_device_class.id
description	↔	cat_device_descr.id
friendly_name	↔	cat_dev_friendly_name.id
id	→	stations.id
instance	↔	cat_device_instance.id

## station\_os\_groups

Groups of operating system users on stations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
name	INTEGER DEFAULT '0' NOT NULL	group name
sid	INTEGER DEFAULT '0' NOT NULL	group SID
comm	INTEGER DEFAULT '0'	comment



## Table indexes

Index name	Index type	Fields list
station_os_groups_pkey	table primary key clustering index	id, sid

## Table references

Field name	Direction	Referenced table field
comm	↔	cat_os_group_descr.id
id	→	stations.id
name	↔	cat_os_group_name.id
sid	↔	cat_os_sid.id

## station\_os\_users

Operating system users on stations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
login	INTEGER DEFAULT '0' NOT NULL	user login name
sid	INTEGER DEFAULT '0' NOT NULL	user SID
full_name	INTEGER DEFAULT '0'	full name



## Table indexes

Index name	Index type	Fields list
station_os_users_pkey	table primary key clustering index	id, sid

## Table references

Field name	Direction	Referenced table field
full_name	↔	cat_os_user_name.id
id	→	stations.id
login	↔	cat_os_user_name.id
sid	↔	cat_os_sid.id

## station\_products

Information on products installed on stations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
product	VARCHAR(64) NOT NULL	product name
crev	NUMERIC(17) DEFAULT '0'	current revision
nrev	NUMERIC(17) DEFAULT '0'	new revision
pstate	CHARACTER(1)	product state: S - stable, F - failed, D - delayed
modtime	NUMERIC(17) DEFAULT '0'	record modification time





## Table indexes

Index name	Index type	Fields list
station_products_0001	simple table index	id
station_products_pkey	table primary key clustering index	id, product

## Table references

Field name	Direction	Referenced table field
id	→	stations.id

## station\_quarantine

The state of the quarantine on stations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
object	VARCHAR(128) DEFAULT ''	file name in quarantine
qtime	NUMERIC(17) DEFAULT '0'	time of the moving file to quarantine
origname	INTEGER DEFAULT '0'	original file name
hash	CHARACTER(64) DEFAULT '0'	file hash (SHA-256)
len	NUMERIC(17) DEFAULT '0'	file length
mtime	NUMERIC(17) DEFAULT '0'	file modification time
owner	INTEGER DEFAULT '0'	file owner
virusinfo	INTEGER DEFAULT '0'	virus information, reference to `cat_virusinfo`
created	NUMERIC(17) NOT NULL	record creation time
sync	INTEGER DEFAULT '1'	synchronization information



Field name	Field type	Description
component	NUMERIC(17) DEFAULT '0'	anti-virus component that moved the file

### Table indexes

Index name	Index type	Fields list
station_quarantine_0001	simple table index clustering index	id, created

### Table references

Field name	Direction	Referenced table field
id	→	stations.id
origname	↔	cat_path.id
owner	↔	cat_users.id
virusinfo	↔	cat_virusinfo.id

## station\_running

Information on anti-virus components running on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
pid	NUMERIC(12) DEFAULT '0'	process ID
type	INTEGER DEFAULT '0'	start type (user/agent/etc.)
component	INTEGER DEFAULT '0'	component number
username	INTEGER DEFAULT '0'	user who launched the component



Field name	Field type	Description
params	INTEGER DEFAULT '0'	process parameters
starttime	NUMERIC(17) NOT NULL	record creation

### Table indexes

Index name	Index type	Fields list
station_running_0001	simple table index clustering index	id

### Table references

Field name	Direction	Referenced table field
id	→	stations.id
params	↔	cat_run_param.id
username	↔	cat_users.id

## station\_status

Statistics on stations status.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
severity	NUMERIC(11) NOT NULL	status severity
source	NUMERIC(11) NOT NULL	status source
reserved	NUMERIC(11) NOT NULL	reserved part of status
code	NUMERIC(15) NOT NULL	record code
args	TEXT DEFAULT ''	record arguments



Field name	Field type	Description
createtime	NUMERIC(17) NOT NULL	record creation

### Table indexes

Index name	Index type	Fields list
station_status_0004	simple table index clustering index	id, code
station_status_0005	simple table index	id, severity, source, reserved, code

### Table references

Field name	Direction	Referenced table field
id	→	stations.id

## station\_user\_logon

The list of OS user sessions on stations.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
username	INTEGER DEFAULT '0'	user name
logontime	NUMERIC(17) DEFAULT '0'	user logon time
isession	INTEGER NOT NULL	user session ID
proto	INTEGER DEFAULT '0'	connection protocol (0 - local, 2 - rdp)
address	VARCHAR(512) DEFAULT ''	network address if user connected remotely
sid	VARCHAR(256) DEFAULT ''	user SID



## Table indexes

Index name	Index type	Fields list
station_user_logon_pkey	table primary key clustering index	id, isession

## Table references

Field name	Direction	Referenced table field
id	→	stations.id
username	↔	cat_users.id

## station\_vdb

Information on virus databases installed on stations.

## Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
name	INTEGER NOT NULL	database file name
version	NUMERIC(15) DEFAULT '0'	version
idate	NUMERIC(12) DEFAULT '0'	issue date
viruses	NUMERIC(15) DEFAULT '0'	number of virus records
createtime	NUMERIC(17) NOT NULL	record creation

## Table indexes

Index name	Index type	Fields list
station_vdb_0001	simple table index clustering index	id, name



## Table references

Field name	Direction	Referenced table field
id	→	stations.id
name	↔	cat_vdb.id



## 2.2.19. Stations Status from Neighbor Server

### srv\_env\_hw

Detailed information on hardware on stations of the neighbor Server.

#### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	reference UUID
type	INTEGER NOT NULL	device type, see st-db-env-hw
name	INTEGER NOT NULL	device name, reference to `env_strings`
vendor	INTEGER NOT NULL	device vendor, reference to `env_strings`
info1	NUMERIC(11) NOT NULL	device information, line #1
info2	NUMERIC(11) NOT NULL	device information, line #2

#### Table indexes

Index name	Index type	Fields list
srv_env_hw_0001	simple table index clustering index	id

#### Table references

Field name	Direction	Referenced table field
name	↔	env_strings.id
vendor	↔	env_strings.id



## srv\_env\_kb

Detailed information on Windows OS updates installed on stations of the neighbor Server.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	reference UUID
name	INTEGER NOT NULL	Windows update name, reference to `env_strings`

### Table indexes

Index name	Index type	Fields list
srv_env_kb_0001	simple table index clustering index	id

### Table references

Field name	Direction	Referenced table field
name	↔	env_strings.id

## srv\_env\_meta

General information on hardware and software on stations of the neighbor Server.

### Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	Server ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
id	VARCHAR(36) NOT NULL	station ID
name	TEXT DEFAULT ""	station name





Field name	Field type	Description
group_name	TEXT DEFAULT ""	station primary group name
category	INTEGER NOT NULL	environment category: Windows updates, hardware, software
arrived	NUMERIC(17) NOT NULL	record modification time
ref	VARCHAR(36) NOT NULL	reference to `srv_env_hw`, `srv_env_kb`, `srv_env_sw`

### Table indexes

Index name	Index type	Fields list
srv_env_meta_pkey	table primary key clustering index	id, category, osid

### srv\_env\_sw

Detailed information on software on stations of the neighbor Server.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	reference UUID
name	INTEGER NOT NULL	software name, reference to `env_strings`
version	INTEGER NOT NULL	software version, reference to `env_strings`
vendor	INTEGER NOT NULL	software vendor, reference to `env_strings`
disksize	INTEGER NOT NULL	size in MB

### Table indexes

Index name	Index type	Fields list
srv_env_sw_0001	simple table index clustering index	id



## Table references

Field name	Direction	Referenced table field
name	↔	env_strings.id
vendor	↔	env_strings.id
version	↔	env_strings.id

## srv\_status

Statistics on a state of neighbor Servers stations.

## Table fields

Field name	Field type	Description
osid	VARCHAR(36) NOT NULL	originator ID
lid	VARCHAR(36) NOT NULL	interserver connection UUID
lname	INTEGER DEFAULT '0'	neighbor Server name
mid	VARCHAR(36) DEFAULT ''	message UUID
severity	NUMERIC(11) DEFAULT '0'	status severity
source	NUMERIC(11) DEFAULT '0'	status source
reserved	NUMERIC(11) DEFAULT '0'	reserved part of status
code	NUMERIC(15) DEFAULT '0'	record code
records	INTEGER DEFAULT '0'	station number
arrived	NUMERIC(17) NOT NULL	record creation

## Table indexes

Index name	Index type	Fields list
srv_status_0001	simple table index	arrived



Index name	Index type	Fields list
	clustering index	
srv_status_0002	simple table index	lid, osid
srv_status_0003	simple table index	osid

### Table references

Field name	Direction	Referenced table field
lname	↔	cat_name_links.id
osid	←	srv_recvhistory.mid



## 2.2.20. Other Tables

### cluster\_message

Long commands transmitted between nodes of the Servers cluster.

#### Table fields

Field name	Field type	Description
sid	VARCHAR(36) NOT NULL	destination station ID
mid	NUMERIC(19) NOT NULL	message ID
command	CLOB NOT NULL	message body

#### Table indexes

Index name	Index type	Fields list
cluster_message_pkey	table primary key	mid

### oauth\_clients

Credentials of external applications for OAuth authorization.

#### Table fields

Field name	Field type	Description
id	VARCHAR(255) NOT NULL	identifier
secret	VARCHAR(255) NOT NULL	shared secret
title	VARCHAR(255) NOT NULL	short name
description	TEXT DEFAULT ""	description
icon_url	TEXT DEFAULT ""	icon URL
homepage	TEXT DEFAULT ""	home page (promo page)
created	NUMERIC(17) NOT NULL	creation time



Field name	Field type	Description
token_ttl	INTEGER DEFAULT '3600' NOT NULL	TTL (sec) for new tokens
code_ttl	INTEGER DEFAULT '600' NOT NULL	TTL (sec) for new authorization codes
user_id	VARCHAR(255) DEFAULT ''	owner identifier, for built-in applications must be empty
client_type	INTEGER DEFAULT '0' NOT NULL	client type: 0 - built-in, 1 - custom
client_status	INTEGER DEFAULT '0' NOT NULL	client current status: 0 - disabled, 1 - enabled

### Table indexes

Index name	Index type	Fields list
oauth_clients_0001	unique table index	secret
oauth_clients_pkey	table primary key	id

## oauth\_codes

Authorization codes of external applications for OAuth authorization.

### Table fields

Field name	Field type	Description
client_id	VARCHAR(255) NOT NULL	identifier of an application for which the code is given out
user_id	VARCHAR(255) NOT NULL	identifier of a user who requested a code
code	VARCHAR(40) NOT NULL	authorization code
created	NUMERIC(17) NOT NULL	creation time
expires	NUMERIC(17) NOT NULL	expiration time (oauth_codes.created + oauth_clients.code_ttl)
redirect_uri	TEXT NOT NULL	redirect URI from user request. Used to verify a request when exchanging a code to a token



Field name	Field type	Description
state	TEXT DEFAULT ''	custom field from user request. Used to verify a request when exchanging a code to a token

### Table indexes

Index name	Index type	Fields list
oauth_codes_pkey	table primary key	code

### Table references

Field name	Direction	Referenced table field
client_id	→	oauth_clients.id

## oauth\_tokens

Access tokens external applications for OAuth authorization.

### Table fields

Field name	Field type	Description
token_access	VARCHAR(40) NOT NULL	access token
token_refresh	VARCHAR(40) NOT NULL	refresh token
created	NUMERIC(17) NOT NULL	creation time
expires	NUMERIC(17) NOT NULL	expiration time (oauth_tokens.created + oauth_clients.token_ttl)
user_id	VARCHAR(255) NOT NULL	identifier of a user for which the token is given out
client_id	VARCHAR(255) NOT NULL	identifier of an application for which the code is given out



### Table indexes

Index name	Index type	Fields list
oauth_tokens_0001	simple table index	token_refresh
oauth_tokens_pkey	table primary key	token_access

### Table references

Field name	Direction	Referenced table field
client_id	→	oauth_clients.id

## report\_auto

Financial reports sent automatically by a task from the Server schedule (AV-Desk only).

### Table fields

Field name	Field type	Description
period	NUMERIC(6) NOT NULL	year and month (YYYYMM)
xmlvalue	CLOB DEFAULT ''	XML value
gendate	NUMERIC(17) DEFAULT '0'	generation date
sent	NUMERIC(17) DEFAULT '0'	sent date (0 if was not sent)
errmessage	CLOB DEFAULT ''	error message (if was not sent)
gentime	INTEGER DEFAULT '0'	generation time in seconds

### Table indexes

Index name	Index type	Fields list
report_auto_pkey	table primary key	period



## report\_data

Data on financial reports about tariffs usage (AV-Desk only).

### Table fields

Field name	Field type	Description
rate	VARCHAR(36) NOT NULL	tariff group ID
id	VARCHAR(36) NOT NULL	ID of a station where the tariff was used
aid	VARCHAR(36) NOT NULL	UUID of an administrator who ordered to create the report
days	INTEGER DEFAULT '0'	number of days when the tariff was used
user_id	VARCHAR(36) DEFAULT ''	ID of a user using this tariff
gid	VARCHAR(36) DEFAULT ''	user group ID
created	NUMERIC(17) DEFAULT '0'	record creation time
report_id	VARCHAR(36) NOT NULL	report UUID

### Table indexes

Index name	Index type	Fields list
report_data_pkey	table primary key clustering index	aid, rate, id, report_id

### Table references

Field name	Direction	Referenced table field
aid	→	admins.id





## report\_done\_ids

Identifiers of sent financial reports (AV-Desk only).

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	ID of a station where the tariff was used
aid	VARCHAR(36) NOT NULL	UUID of an administrator who created the report
report_id	VARCHAR(36) NOT NULL	report UUID

### Table indexes

Index name	Index type	Fields list
report_done_ids_pkey	table primary key clustering index	report_id, aid, id

### Table references

Field name	Direction	Referenced table field
aid	→	admins.id

## report\_manual

Financial reports sent manually by administrator (AV-Desk only).

### Table fields

Field name	Field type	Description
periodbeg	NUMERIC(17) NOT NULL	report start date
periodend	NUMERIC(17) DEFAULT '0'	report end date



Field name	Field type	Description
id	VARCHAR(36) NOT NULL	UUID of an administrator who created the report
xmlvalue	CLOB DEFAULT ''	XML value
gendate	NUMERIC(17) NOT NULL	generation date
gentime	INTEGER DEFAULT '0'	generation time in seconds

### Table indexes

Index name	Index type	Fields list
report_manual_0001	simple table index clustering index	id, gendate

### Table references

Field name	Direction	Referenced table field
id	→	admins.id

## reporting\_ids

Identifiers of financial reports about tariffs usage (AV-Desk only).

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	ID of a station where the tariff was used
aid	VARCHAR(36) NOT NULL	UUID of an administrator who created the report
company_id	VARCHAR(36) DEFAULT ''	user company ID
user_id	VARCHAR(36) DEFAULT ''	ID of a user using this tariff
report_id	VARCHAR(36) NOT NULL	report UUID



### Table indexes

Index name	Index type	Fields list
reporting_ids_0001	simple table index clustering index	report_id, aid
reporting_ids_pkey	table primary key	id, aid, report_id

### Table references

Field name	Direction	Referenced table field
aid	→	admins.id

## station\_hash

Settings hashes of personal installation packages.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
hash_code	VARCHAR(20) NOT NULL	hash of URL to personal installation package
createtime	NUMERIC(17) DEFAULT '0'	record creation time

### Table indexes

Index name	Index type	Fields list
station_hash_0001	simple table index	hash_code
station_hash_pkey	table primary key clustering index	id, hash_code



### Table references

Field name	Direction	Referenced table field
id	→	stations.id

## station\_offline\_cmd

Saved commands that must be sent to stations after their connection to the Server.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	station ID
rid	VARCHAR(36) NOT NULL	command UUID
cmd	VARCHAR(256)	command
data	CLOB DEFAULT ''	command data
created	NUMERIC(17) NOT NULL	record creation
min_proto	NUMERIC(5) DEFAULT '0'	minimal protocol version, e.g. 0x0301 is 3.1

### Table indexes

Index name	Index type	Fields list
station_offline_cmd_0001	simple table index	created
station_offline_cmd_0002	simple table index clustering index	id
station_offline_cmd_0003	simple table index	rid

### Table references

Field name	Direction	Referenced table field
id	→	stations.id



## temporary\_tables

The list of temporary tables.

### Table fields

Field name	Field type	Description
table_name	VARCHAR(128) NOT NULL	temporary table name
createtime	NUMERIC(17) DEFAULT '0'	creation time
date1	NUMERIC(17) DEFAULT '0'	start date for statistic data in the table
date2	NUMERIC(17) DEFAULT '0'	end date for statistic data in the table

### Table indexes

Index name	Index type	Fields list
temporary_tables_pkey	table primary key	table_name

## webmin

Internal data of the Web interface of Dr.Web Security Control Center.

### Table fields

Field name	Field type	Description
id	VARCHAR(36) NOT NULL	record owner (admin.id)
rkey	VARCHAR(128) NOT NULL	record key
data	CLOB DEFAULT ''	record data
created	NUMERIC(17) DEFAULT '0'	record creation time
seq	INTEGER NOT NULL	record sequence number for big data sets



### Table indexes

Index name	Index type	Fields list
webmin_pkey	table primary key clustering index	id, rkey, seq

### Table references

Field name	Direction	Referenced table field
id	→	admins.id



## Appendix A. Technical Support

If you encounter any issues installing or using company products, before requesting for the assistance of the technical support, take advantage of the following options:

- Download and review the latest manuals and guides at <https://download.drweb.com/doc/>.
- Read the frequently asked questions at [https://support.drweb.com/show\\_faq/](https://support.drweb.com/show_faq/).
- Browse the Dr.Web official forum at <https://forum.drweb.com/>.

If you have not found solution for the problem, you can request direct assistance from Doctor Web company technical support by one of the following ways:

- Fill in the web form in the corresponding section at <https://support.drweb.com/>.
- Call by phone in Moscow: +7 (495) 789-45-86.

Refer to the official website at <https://company.drweb.com/contacts/offices/> for regional and international office information of Doctor Web company.

