

Continent Enterprise Firewall Version 4

Deployment

Administrator guide



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List of abbreviations

CSR	Certificate Signing Request
DB	Database
HTTPS	HyperText Transfer Protocol Secure
IP	Internet Protocol
IPS	Intrusion Prevention System
OS	Operating System
RNG	Random Number Generator
USB	Universal Serial Bus
UTC	Coordinated Universal Time

Introduction

This manual is designed for administrators of Continent Enterprise Firewall, Version 4 (hereinafter — Continent). It contains information about deployment and configuration procedures.

This document contains links to documents [1] - [4].

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Technical support. You can contact technical support by phone: +7 800 505 30 20 or by email: support@securitycode.ru.

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Deployment procedures

The deployment of Continent consists of the following steps:

- 1. Deployment of the Security Management Server (see p. 7).
- 2. Deployment of administrator workstations (see p. 13).
- 3. Deployment of the Security Gateway with the standby Security Management Server (see p. 18).
- **4.** Deployment of additional Security Gateways (see p. **25**).

Note

We recommend updating the software, the IPS protections and Web/FTP filters after deploying Continent (see [4]).

Chapter 1

Deployment of the Security Management Server

To deploy the Security Management Server, take the following steps:

1. Log on to the local menu (see below).

Note.

For security reasons, we recommend changing the BIOS password (see p. 44).

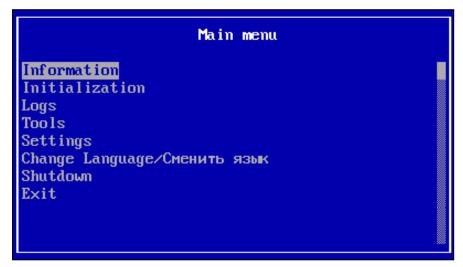
- 2. Initialize the Security Management Server (see p. 8).
- **3.** Set up the system time (see p. 9).
- 4. Create a root certificate and a Security Management Server control channel certificate (see p. 9).
- **5.** Configure the Security Management Server and install a local policy (see p. **11**).

Log on to the local menu

To log on to the system:

- 1. Connect a keyboard and a monitor or a portable device (e.g., a laptop) to a Security Gateway (see p. 43).
- 2. Power on the Security Gateway.

After loading the OS, the main menu of the Security Gateway appears as in the figure below.



Use the navigation keys to move through menu sections:

- <Enter> to select the current menu section;
- <1> to move up;
- <↓> to move down;
- <Page Up> to move to the top;
- < Page Down> to move to the bottom;
- <Esc> to get back to the previous menu.

The following windows are available for an administrator:

Console	Combination
Local menu console	<alt>+<f1></f1></alt>
Console with Security Gateway events	<alt>+<f6></f6></alt>
Console with Security Management Server events	<alt>+<f8></f8></alt>

Note.

Consoles with events are available only after the Security Management Server initialization.

Initialize the Security Management Server

To initialize the Security Management Server:

1. In the main menu, select **Initialization** and press **<Enter>**.

The dialog box prompting you to select a component to be initialized appears as in the figure below.

```
Initialize this device as:

( ) Security Gateway with Security Management Server
( ) Security Gateway with Standby Security Management Server
( ) Security Gateway
(*) Security Gateway - Quick deploy

[ Start initialization ] [ Cancel ]
```

2. Select Security Gateway with Security Management Server and press < Enter >.

The initialization of the Security Gateway starts.

```
Initializing... [4/9]
```

Please wait until the initialization is completed with the respective message as in the figure below.

```
Success. To complete the configuration, you need to perform the following steps:

- Set up time-zone for logging and system time (in UTC)

- Create and import certificates

- Configure Security Management Server

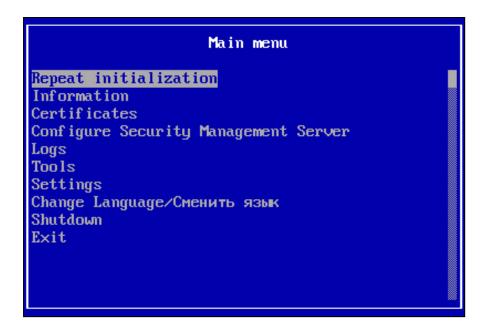
Press Enter
```

Note.

If virtual interfaces have been added on a Security Gateway, after reinitialization or network card change, the following message might appear: Udev rules for network interfaces are not compatible with the current equipment. Press <Enter> in this case.

3. Press < Enter > .

You will be returned to the main menu. When the initialization is completed, the contents of the menu will be changed.



Set up the system time

Before creating certificates, you must set up the system time. It enables the correct synchronization of Security Gateways (including Security Management Servers).

To set up the system time:

1. In the main menu, select **Settings** and press **<Enter>**.

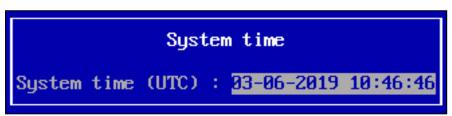
The **Settings** menu appears.

2. Select **System time** and press **<Enter>**.

The **Time settings** menu appears.

3. Select Manual time setup and press <Enter>.

A window appears as in the figure below.



4. Type the current time according to UTC+0 and press **Enter**>.

Note.

For Abu Dhabi, you must set 6:05 instead of 12:05.

The system time is set when the respective message appears.

5. Press **<Enter>**.

You will be returned to the **System time** menu.

Create certificates

When deploying the Security Management Server a root certificate and a control channel certificate are created using the local menu.

To enter the Certificates menu:

Select Certificates in the main menu and press <Enter>.

The **Certificates** menu appears as in the figure below.



To create a root certificate:

1. In the Certificates menu, select Root certificates and press < Enter >.

The **Root certificates** menu appears.

Note.

To work with the update server, there is a pre-installed **Trusted Publisher** root certificate. It cannot be used for other purposes.

2. To create a root certificate, press <**F2**>.

The Issue certificate menu appears.

3. Select **Issue root certificate** and press **<Enter>**.

The dialog box appears as in the figure below.



4. Specify the required information in the respective fields and press < Enter>.

Note.

To move through the sections, use the following keys: <↑>, <↓>, <Tab>, <Page Down>, <Page Up>, <Home>, <End>.

When the certificate is created, the respective message appears.

5. Press < Enter >.

You will be returned to the **Issue certificate** menu.

6. Press < Esc>.

You will be returned to the Root certificates menu. You can see the new certificate here.

7. Press < Esc>.

You will be returned to the **Certificates** menu.

To create a control channel certificate:

In the Certificates menu, select Control channel certificates and press < Enter >.

The **Control channel certificates** menu appears.

Note.

If you create a certificate for the first time, the list of certificates is empty.

2. Press <F2>.

The Issue certificate menu appears as in the figure below.



3. Select Issue control certificate for Security Management Server and press < Enter >.

The **Certificate** menu appears.

4. Specify the required information in the respective fields and press **Enter**>.

The list of created root certificates appears.

- **5.** Select a root certificate created in the previous procedure (see p. **10**) from the list and press **Enter**>. When the certificate is created, the respective message appears.
- **6.** Press **<Enter>**.

You will be returned to the **Issue certificate** menu.

7. Press < Esc>.

You will be returned to the Control channel certificates menu. You can see the new certificate here.

8. Press < Esc>.

You will be returned to the **Certificates** menu.

Configure the Security Management Server

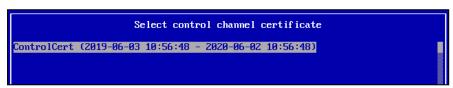
To configure the Security Management Server:

In the local menu, select Configure Security Management Server and press < Enter>.
 A warning message appears as in the figure below.



2. Select Yes and press < Enter > .

The **Select control channel certificate** window appears as in the figure below.



- **3.** Select the certificate of the Security Management Server (see p. **10**) and press **Enter**>. The dialog box prompting you to type the main administrator password appears.
- **4.** Type the password twice and press **Enter**>.



Note.

The password must contain at least 8 characters, one uppercase and one lowercase English letters, one base-10 digit and one of the following characters:



After you create the password, you can select a control interface.



For more details about the interface syntax, see p. 45

5. Select the control interface connected to the administrator workstation and press **Enter**>. The dialog box appears as in the figure below.



6. Type the IP address of the Security Management Server specifying the mask prefix and IP address of a gateway (if necessary), press **Enter**>.

The dialog box prompting you to apply settings appears.

7. To apply the settings, select **Yes** and press **Enter**.

The configuration of the Security Management Server starts.

```
Configuring Security Management Server [3/19]
```

When it is completed, you receive the respective message.

```
System has been successfully configured
Press Enter
```

8. Press < Enter > .

After the configuration is completed, you will be returned to the main menu for user authentication.

Attention!

In case of a Security Management Server configuration failure, check the events in the system log.

After troubleshooting, perform re-initialization in the **Tools** menu, restart the Security Management Server, re-configure time settings and recreate certificates.

Note.

You can use main functions of Continent after the Security Management Server initialization. It is provided by a demo license with a null Client ID. The demo license does not allow you to use Advanced application control and Web/FTP filters. The number of connections to the Access Server is limited to 2. The demo license expires in 14 day and after that the functions will be limited. To resume using all the functions of Continent, install the Configuration Manager (see [4]) and upload new licenses to the Security Management Server repository (see License management in [1]).

Chapter 2

Deployment of administrator workstation

The Configuration Manager is software for remote control of the Security Management Server and other Security Gateways.

To perform the deployment of the administrator workstation, take the following steps:

- 1. Install the Configuration Manager and Security Code CSP (see [4]).
- 2. Run the Configuration Manager and connect it to the Security Management Server (see p. 13).
- 3. Configure the Monitoring and Audit System (see [2]).

Note.

You can use the Monitoring and Audit System on any host in a protected network after you apply respective settings.

Configure an administrator workstation

To run the Configuration Manager for the first time, take the following steps:

- 1. Get ready to run the Configuration Manager (see below).
- 2. Run the Configuration Manager (see p. 14).
- 3. Initialize an RNG using human input (see p. 14).
- **4.** Connect to the Security Management Server (see p. **15**).

Note.

Versions of the Configuration Manager and the Security Management Server must match.

When you run the Configuration Manager next time, the dialog box prompting you to connect to the Security Management Server appears. Its fields are automatically filled with the IP address or name of the Security Management Server to which the Configuration Manager connected last and the administrator account that was used during previous logon.

Get ready to run the Configuration Manager

Check the regional OS settings and make sure that all programs in English support Unicode before running the Configuration Manager. Otherwise, you cannot connect to the Security Management Server and receive the respective error message.

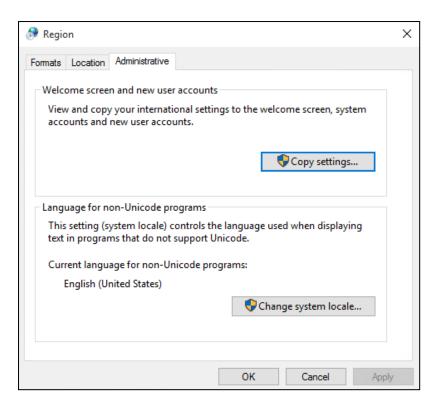
To check the regional settings of OS:

- 1. Go to Control panel | Region.
- 2. On the Administrative tab, if English is not specified in Languages that do not support Unicode, click Change system locale.

Note.

If there is a request to enter or confirm an administrator password, specify the password in the respective field.

3. Select English (United States) and click OK.



4. Restart your computer.

Run the Configuration Manager

To run the Configuration Manager:

• Double-click the shortcut that is shown in the figure below.



The main window of the Configuration Manager and the **Administrator authentication** dialog box appear (see p. **16**).

Initialize the RNG using human input

If you run the Configuration Manager for the first time after the installation, you receive a message prompting you to initialize the RNG using human input as in the figure below.



To start the initialization of RNG using human input:

1. Click **Here** to start the RNG using human input initialization process and follow the instructions to gather entropy.

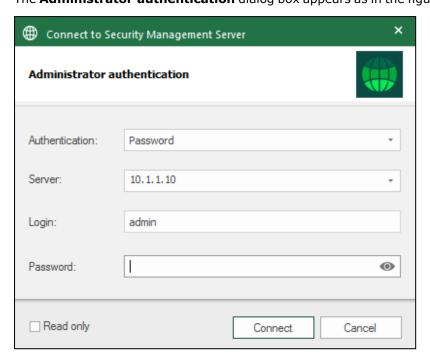
Attention!
If you miss the target, entropy may decrease.

2. After the entropy is gathered, click in the upper left corner of the Configuration Manager, then click Connect.

Connect to the Security Management Server

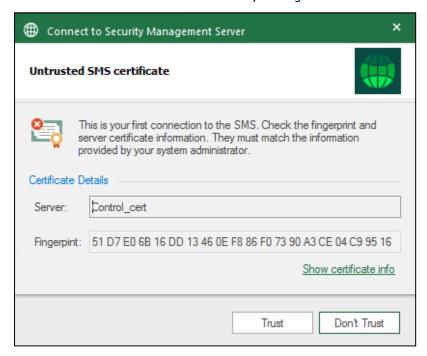
To connect to the Security Management Server:

Run the Configuration Manager (see above).
 The Administrator authentication dialog box appears as in the figure below.



- **2.** In the **Authentication** drop-down list, select **Password**. In the **Server** text box, specify the IP address of the Security Management Server to which you want to connect.
- 3. Enter the login and the password of the administrator in the respective text boxes, click Connect.

The respective dialog box prompting you to verify the certificate appears. This dialog box appears during the first connection to the Security Management Server and after every update (automatic or manual) of the control channel certificate of the Security Management Server.

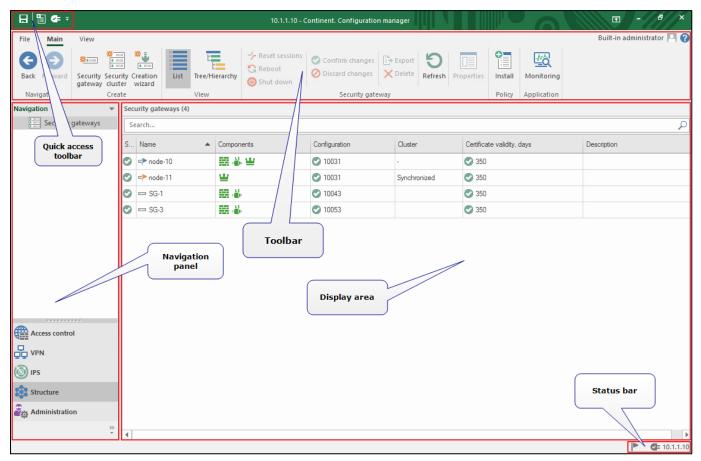


4. Check the certificate parameters and click **Trust**.

If the Configuration Manager successfully connects to the Security Management Server, the main window appears. It contains information about the current status of Continent.

Interface of Configuration Manager

After you run and log on to the Configuration Manager, the main window appears.



The Configuration Manager window contains the following elements:

Element of the interface	Description
Toolbar	Contains a set of tools and two tabs: • Main — displays the toolbar; • View — allows configuring the interface of the Configuration Manager. Tools are buttons that you can use to launch frequently used commands. A set of tools depends on a menu item which you can select on the navigation panel. Operating conditions determine which buttons are displayed and available. When you move the pointer over a button, a tooltip appears
Quick access toolbar	Allows quick access to the most frequently used buttons. Contains the following: - save the current configuration; - install a security policy; - configure the Security Management Server connections; - connect to the Security Management Server; - configure Quick access toolbar; - open Quick access toolbar

Element of the interface	Description
Navigation panel	Contains the following menu items: • Access control — to manage Firewall and NAT rules; • VPN — to create and configure VPN; • IPS — to configure IPS settings; • Structure — to manage Security Gateway settings; • Administration — to manage service functions (operations with certificates, backups, updates, licenses, etc.)
Display area	Displays information depending on the selected navigation panel menu item
Status bar	 Contains the following: the number of tasks currently being executed and the button to open the notification center where you can find the link to open the general task list; an icon that indicates the status of the connection to the Security Management Server (if there is a connection, this icon also displays a Security Management Server IP address, for example
Authorized administrator	Displays information about the administrator account
About Configuration Manager	Displays information about the program, its version and copyright

Chapter 3

Deployment of the Security Gateway with the standby Security Management Server

To deploy the Security Gateway with the standby Security Management Server, take the following steps:

Note.

For security reasons, we recommend changing the BIOS password (see p. 44).

- 1. Initialize the standby Security Management Server using the local menu (see p. 18).
- 2. Set up the system time using the local menu (see p. 9).
- **3.** Create a Security Management Server control channel certificate using the local menu and the standby Security Management Server (see p. **19**).
- **4.** Create a standby Security Management Server in the local menu of the active Security Management Server (see p. **21**).
- **5.** Connect the standby Security Management Server to the active Security Management Server using the local menu (see p. **21**).
- **6.** Confirm the configuration of the standby Security Management Server on the active Security Management Server and link a license to the standby Security Management Server using the Configuration Manager (see p. **22**).
- 7. Synchronize the standby Security Management Server with the active Security Management Server using the Configuration Manager (see p. 23).
- **8.** Export root certificates with private keys from the active Security Management Server.

Initialize the standby Security Management Server using the local menu

To initialize the standby Security Management Server:

1. In the main menu of the Security Gateway with the standby Security Management Server, select **Initialization** and press **<Enter>**.

The dialog box prompting you to select a component to be initialized appears as in the figure below.



2. Select Security Gateway with standby Security Management Server and press < Enter >.

The initialization of the Security Gateway starts.



Please wait until the initialization is completed with a respective message as in the figure below.

```
Success. To complete the configuration, you need to perform the following steps:

- Set up time-zone for logging and system time (in UTC)

- Create and import certificates

- Connect to primary Security Management Server

Press Enter
```

3. Press <Enter>.

You will be returned to the main menu. When the initialization is completed, the contents of the menu will be changed.



Create a Security Management Server certificate using the local menu and the standby Security Management Server

When deploying the Security Management Server via the local menu, only a control channel certificate is created.

Create a certificate signing request (CSR)

To enter the Certificates menu:

In the main menu, select Certificates and click < Enter >.

The **Certificates** menu appears as in the figure below.



To create a certificate signing request of a control channel certificate:

1. In the Certificates menu, select Control channel certificates and press < Enter >.

The Control channel certificates menu appears.

Note.

If you create a certificate for the first time, the list of certificates is empty.

2. Press <F4>.

The Make Certificate Request menu appears as in the figure below.



3. Select Create a Security Management Server certificate request and press < Enter>.

The dialog box prompting you to insert a USB drive appears.

4. Insert a USB drive and press < Enter>.

The **Certificate** menu appears.

5. Specify the required information in the respective fields and press **Enter**>.

You receive the message about the successful export of the request to the USB drive.

6. Press **<Enter>**.

You will be returned to the Make certificate request menu.

7. Press **<Esc>**.

You will be returned to the Control channel certificates menu. The new request appears in the list.

Issue a standby Security Management Server control channel certificate on the active Security Management Server

To issue a certificate in the local menu:

1. In the main menu, select **Certificates** and press **<Enter>**.

The **Certificates** menu appears.

2. Select Control channel certificates and press < Enter > .

The **Control channel certificates** menu appears.

3. Press < F2>.

The **Issue certificate** menu appears.

4. Select Issue control certificate for Security Gateway and press < Enter >.

The dialog box prompting for a CSR appears.

5. Insert a USB drive, click **Yes** and press **<Enter>**.

The list of files from the USB drive appears.

Note.

The request file default name is **continent-XX.req**, where **XX** is the Security Gateway ID.

6. Select the required request file and press **Enter**>.

The dialog box prompting you to select the root certificate appears.

7. Select the required root certificate and press **<Enter>**.

When the standby Security Management Server control channel certificate is issued, the respective message appears.

8. Press **<Enter>**.

You will be returned to the Issue certificate menu.

9. Select **Back to previous menu** and press **< Enter >**. You will be returned to the **Control channel certificates** menu. You can see the new certificate here.

Create a standby Security Management Server on the active Security Management Server in the local menu

To create a standby Security Management Server in the local menu of the active Security Management Server:

- In the main menu of the active Security Management Server, select **Tools** and press < **Enter**>.
 The **Tools** menu appears.
- 2. Select Create security gateway with standby Security Management Server and press < Enter >.

The dialog box prompting you to insert a USB drive appears (if it was not inserted earlier).

3. Insert the USB drive and press < Enter>.

The dialog box prompting you to enter the ID of the Security Gateway with the standby Security Management Server appears.

Note.

ID is the identifier of a hardware appliance shown on its case and specified in its datasheet.

4. Enter the ID and press **<Enter>**.

The dialog box prompting you to select a control channel certificate for the standby Security Management Server appears.

5. Select the control channel certificate created earlier and press **Enter**>.

The process of standby Security Management Server creation starts.



When the operation is completed, the respective message appears. The configuration file of the Security Gateway with the standby Security Management Server will be exported to the USB drive.

6. Press < Enter > .

You will be returned to the **Tools** menu.

Connect the standby Security Management Server to the active Security Management Server in the local menu

Before starting the procedure, prepare a USB drive with the configuration file **gate-XX.json** (**XX** is the ID of a Security Gateway).

To connect the standby Security Management Server to the active Security Management Server:

1. In the main menu of the standby Security Management Server, select Connect to active Security Management Server.

The warning message appears as in the figure below.



2. Select **Yes** and press **<Enter>**.

The dialog box prompting you to insert a USB drive appears (if it was not inserted earlier).

3. Insert the USB drive with the configuration saved earlier and press **Enter**>.

The list of files from the USB drive appears.

4. Select the required configuration file with the **.json** extension and press **<Enter>**.

The window prompting you to select the Security Gateway control interface appears.

5. Select an interface that will be used for connection to the Security Management Server and press < Enter >.

The window prompting you to configure the Security Gateway control interface appears.

6. Type its IP address and mask, the IP address of the Security Gateway and press < Enter >.

The window prompting you to confirm the new settings appears.

7. Select Yes and press < Enter > .

The configuration of the Security Gateway starts. When the operation is completed, the respective message appears.

8. Press < Enter > .

Confirm the configuration and link a license to the standby Security **Management Server**

Note

If you receive a message about the lock takeover in the Configuration Manager, you need to reconnect to the Security Management Server.

To confirm the Security Gateway configuration and link a license to the standby Security Management Server:

1. Open the Configuration Manager and go to **Structure**.

In the display area, you can see a list of Security Gateways.

Note.

If you cannot see a local configuration version of the Security Gateway with the standby Security Management Server on the list, click Refresh on the toolbar.

2. Select the Security Gateway to be connected from the list. On the toolbar, click Confirm changes.



The dialog box prompting you to confirm local changes appears.

3. Click Yes.

When the system applies all the changes to the Security Management Server configuration and saves it to the DB, the respective message appears.

- 4. Click OK.
- 5. In the Configuration Manager, go to **Administration** and select **Licenses**.
- 6. In the list, select the standby Security Management Server and click **Link license** on the toolbar.

The dialog box with available licenses under the following conditions appears:

- The license has not expired.
- The platform type of the license (if specified) matches the platform type of the linked Security Gateway.
- The Security Gateway ID in the license (if specified) matches the ID of the linked Security Gateway.

Adding licenses to the repository is described in [1], Managing licenses.

7. Select the required license and click OK.

The license is linked to the Security Gateway and moved from the repository to the linked license group.

8. To save changes in the configuration, click the main menu button and then click ...

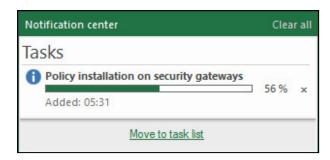


9. On the toolbar, click Install.

A dialog box for applying policies to Security Gateways appears.

10. In the Install policy dialog box, select the required Security Gateway with the standby Security Management Server and click OK.

The task to install the policy on the selected Security Gateway is created and appears in the notification center. The notification center displays the progress of tasks.



11. Wait for the operation to complete.

Synchronize the standby Security Management Server with the active Security Management Server

Synchronization of the standby Security Management Server with the active Security Management Server is performed automatically. If necessary, you can perform synchronization manually.

To synchronize the standby Security Management Server with the active one:

- **1.** Open the Configuration Manager and go to **Structure**. In the display area, you can see a list of Security Gateways.
- **2.** Right-click the Security Gateway and select **Replication Synchronize Security Management Server**. The dialog box prompting you to confirm the Security Management Server synchronization appears.
- 3. Select **Yes** and press **<Enter>**.
 - $The \ synchronization \ starts. \ The \ notification \ center \ displays \ the \ progress \ of \ the \ task \ in \ real \ time.$

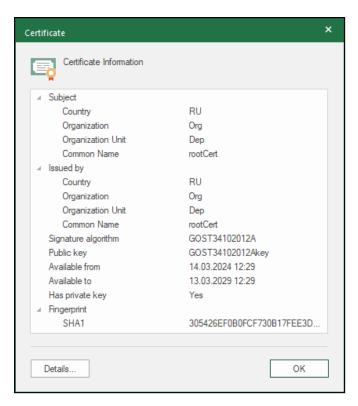
When the operation is completed, the Security Gateway with the standby Security Management Server has the **Synchronized** status.

Export root certificates with private keys from the active Security Management Server

To export root certificates with private keys from the active Security Management Server:

- 1. Run the Configuration Manager and connect to the Security Management Server.
- 2. Go to Administration.
- 3. Expand Certificates and select Root CAs.
- **4.** Export the root certificates with private keys (see [**5**], the **Export certificates** section) without deleting the private key after a successful export.

The presence of a private key is displayed in the certificate properties.



- 5. Disconnect from the Security Management Server and connect to the standby Security Management Server.
- **6.** Make the standby Security Management Server the active one (see [**5**], the **Manage Security Management Server redundancy** section).
- 7. The Configuration Manager disconnects from the standby Security Management Server.

Note.

Switching the role may take several minutes. The Security Management Server role will not change if the Security Management Server logon is performed before the role switches. In this case, you need to connect after a few minutes.

Check that after the reconnection, in the list of Security Gateways in **Structure**, this Security Gateway with the Security Management Server is displayed as the active Security Management Server.

- **8.** Import the root certificates with private keys (see [**5**], the **Import certificates and security keys** section). In the certificate properties, check that the private keys are imported.
- 9. Install the policy on all Security Gateways.

Chapter 4

Deployment of Security Gateway

To deploy a Security Gateway, we recommend taking the following steps:

- 1. Initialize the Security Gateway (see below).
- 2. Configure the system time (see p. 9).
- 3. Connect Security Gateway to the Security Management Server (see p. 25).

If you need to initialize a group of Security Gateways without connection to the Security Management Server, go to the Security Gateway creation wizard (see p. 40).

Initialize the Security Gateway

Note.

For security reasons, we recommend changing the BIOS password.

To initialize the Security Gateway:

1. In the main menu of the Security Gateway (see p. 7), select **Initialization** and press **Enter**>. The dialog box prompting you to select the component appears.

```
Initialize this device as:

( ) Security Gateway with Security Management Server
( ) Security Gateway with Standby Security Management Server
( ) Security Gateway
(*) Security Gateway - Quick deploy

[ Start initialization ] [ Cancel ]
```

2. Select Security gateway and press < Enter>.

The initialization of the Security Gateway starts.

Please wait until the initialization is finished with the respective message as in the figure below.

```
Success. To complete the configuration, you need to perform the following steps:

- Set up time-zone for logging and system time (in UTC)

- Create and import certificates

- Connect to Security Management Server

Press Enter
```

3. Press < Enter >.

You will be returned to the main menu.

Connect the Security Gateway to the Security Management Server

Find out the Security Gateway ID (it can be found on the case of the Security Gateway hardware appliance or in its datasheet) and prepare a USB drive before you start the procedure to export files onto it. The files are required to configure the connection between Security Gateway and Security Management Server.

Attention!

We do not recommend using a USB drive containing other private keys in order to avoid container confusion.

You can connect a Security Gateway to the Security Management Server in one of the following ways:

• Case 1. Connect a Security Gateway to the Security Management Server using a certificate issued in the Security Management Server local menu (see below).

- Case 2. Connect a Security Gateway to the Security Management Server using a certificate issued in the Security Management Server local menu by a request from the Security Gateway local menu (see p. 29).
- Case 3. Connect a Security Gateway to the Security Management Server using a certificate issued in the Configuration Manager (see p. **31**).
- Case 4. Connect a Security Gateway to the Security Management Server using a certificate issued in the Configuration Manager by a request from the Security Gateway local menu (see p. 36).

Attention!

Regardless of the case, we recommend installing the respective policy on the Security Management Server after connecting a new Security Gateway.

Case 1

To connect a Security Gateway to the Security Management Server, take the following steps:

- 1. Issue a Security Gateway certificate using the Security Management Server local menu (see below).
- 2. Create a Security Gateway using the Security Management Server local menu (see p. 26).
- **3.** Configure and connect the Security Gateway to the Security Management Server using the local menu (see p. **27**).
- 4. Confirm the Security Gateway configuration in the Configuration Manager (see p. 28).
- 5. Link a license to the Security Gateway in the Configuration Manager (see p. 28).

To issue a Security Gateway certificate using the local menu:

In the Security Management Server local menu, select Certificates and press < Enter>.

The **Certificates** menu appears.

2. Select Control channel certificates and press < Enter>.

The respective window appears.

3. Press <**F2**>.

The **Issue certificate** dialog box appears.

4. Select Issue control certificate for Security Gateway and press < Enter >.

The dialog box prompting for a CSR appears.

5. Select **No** and press **<Enter>**.

The dialog box prompting you to enter identification attributes appears.

6. Specify the required information in the respective fields and press **Enter**>.

The dialog box prompting you to set the password for the key container appears.

7. Set the password and press **<Enter>**.

The dialog box prompting for a key container name appears.

8. Set the name and press **<Enter>**.

You receive the message about successful CSR saving.

9. Press < Enter > .

The dialog box prompting you to select a root certificate appears.

10. Select the required root certificate and press **Enter**>.

You receive the message that the certificate has been successfully issued.

11. Press < Enter>.

You will be returned to the Issue certificate menu.

12. Select **Back to previous menu** and press **<Enter>**.

You will be returned to the Control channel certificates menu. You can see the new certificate in the list.

To create a Security Gateway using the Security Management Server local menu:

1. In the Security Management Server local menu, select **Tools** and press **<Enter>**.

The **Tools** menu appears.

2. Select Create Security Gateway and press < Enter>.

The dialog box prompting you to insert a USB drive appears.

3. Insert a USB drive and press < Enter>.

The dialog box prompting you to specify a Security Gateway ID appears.

Note.

The Security Gateway ID is an identifier shown on the Security Gateway hardware appliance case, in its datasheet, and in the local menu.

4. Enter the Security Gateway ID and press < Enter >.

The dialog box prompting you to specify a Security Gateway control certificate appears.

5. Select the certificate for the Security Gateway and press **Enter**>.

The process of Security Gateway creation starts. When the operation is completed, the respective message appears. The configuration file of the Security Gateway will be exported to the USB drive.

Press < Enter >.

You will be returned to the **Tools** menu.

Note.

The configuration file name is **gate-XX.json**, where **XX** is the Security Gateway ID.

7. Remove the USB drive.

To configure the Security Gateway and connect it to the Security Management Server:

Note.

Prepare a USB drive with the configuration file gate-XX.json (XX is the Security Gateway ID).

- 1. Insert the USB drive.
- 2. In the main menu of the Security Gateway, select **Certificates | Control channel certificates** and press <**Enter>**.

The **Control channel certificates** window appears.

3. Press < F5>.

The window for selecting the request file appears.

4. Select the required file with the **.req** extension and press **<Enter>**.

The window for selecting the private key container appears.

5. Select the required private key container and press **Enter**>.

The password entry window appears.

6. Enter the password and press<**Enter**>.

The certificate request file and key information will be imported. When the operation is completed, you receive the respective message.

7. In the main menu of the Security Gateway, select **Connect to Security Management Server** and press <**Enter**>.

The warning message appears as in the figure below.



8. Select **Yes** and press **<Enter>**.

The list of files from the USD drive appears.

9. Select the required file with the .**json** extension and press <**Enter**>.

The window for selecting the Security Gateway management interface appears.

10. Select an interface that will be used for connection to the Security Management Server and press < Enter >.

The window for configuring the Security Gateway management interface appears.

11. Type its IP address and mask, the IP address of the gateway (if necessary) and press < Enter >.

The window prompting you to confirm the new settings appears.

12. Select Yes and press < Enter > .

When the operation is completed, you receive the respective message.

13. Press < Enter>.

To confirm the Security Gateway configuration:

Note.

If you receive a message about the lock takeover in the Configuration Manager, reconnect the Security Management Server.

1. In the Configuration Manager and go to **Structure**.

The list of Security Gateways appears in the display area.

Note.

If you cannot see the local version of the Security Gateway configuration in the list, click Refresh on the toolbar.

2. Select the Security Gateway and click Confirm changes on the toolbar.



The dialog box prompting you to confirm local changes appears.

3. Click Yes.

When the system applies all changes to the Security Management Server configuration and saves it to the database, you receive the respective message.

Note.

It may take up to several minutes to send local changes to the Security Gateway configuration to the Security Management Server. If the configuration is not sent within 1–2 minutes, check the connection between the Security Management Server and the Security Gateway. If the connection between the Security Gateway and the Security Management Server is lost during the application of local changes, the local changes are applied only on the Security Gateway and are not sent to the Security Management Server. In this case, the message There are unapplied local changes appears until a restart. To send changes to the Security Management Server after the Security Gateway re-established connection between the Security Gateway and the Security Management Server, click Confirm changes in the Security Gateway local menu.

4. Click OK.

To link a license to the Security Gateway in the Configuration Manager:

- 1. Go to Administration and select Licenses.
- 2. Select the Security Gateway in the list and click **Link license** on the toolbar.

The dialog box with all available licenses under the following conditions appears:

- The license has not expired.
- The platform type of the license (if specified) matches the platform type of the linked Security Gateway.
- The Security Gateway ID in the license (if specified) matches the ID of the linked Security Gateway.
- **3.** Select the required license and click **OK**.

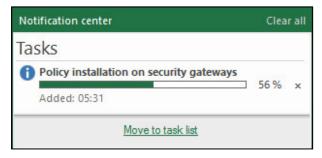
The license is linked to the Security Gateway and moved from the repository to the linked license group

- 4. To save settings to the configuration, click the main menu button and then click Save.
- 5. On the toolbar, click Install.

The dialog box for applying policies to the gateways appears.

6. In the Install policy dialog box, select the required Security Gateway and click OK.

The task to install the policy on the selected Security Gateway is created and the notification center appears. It displays the progress of tasks.



Case 2

To connect a Security Gateway to the Security Management Server, take the following steps:

- 1. Create a CSR using the local menu (see below).
- 2. Issue a certificate using the Security Management Server local menu (see p. 29).
- 3. Create a Security Gateway using the Security Management Server local menu (see p. 30).
- **4.** Configure and connect the Security Gateway to the Security Management Server using the local menu (see p. **30**).
- **5.** Confirm the Security Gateway configuration in the Configuration Manager (see p. **30**).
- **6.** Link a license to a Security Gateway in the Configuration Manager (see p. **31**).

To create a request to issue a Security Gateway certificate:

1. In the local menu of the Security Gateway, select Certificates and press < Enter >.

The **Certificates** menu appears.

2. Select Certificate requests and press < Enter>.

The respective window appears.

Note.

If you create the first certificate, the list is empty.

3. Press <**F4**>.

The dialog box prompting you to insert a USB drive appears.

4. Insert a USB drive and press < Enter>.

The **Certificate** dialog box appears.

5. Specify the required information in the respective fields and press **<Enter>**.

The CSR will be successfully saved to the USB drive. You receive the respective message.

6. Press **<Enter>**.

You will be returned to the Issue certificate request dialog box.

7. Press **<Esc>**.

You will be returned to the Control channel certificates window. You can see the created CSR in the list.

To issue a certificate using the Security Management Server local menu:

1. Select Certificates and press < Enter>.

The **Certificates** dialog box appears.

2. Select Control channel certificates and press < Enter >.

The respective window appears.

3. Press <F2>.

The Issue certificate dialog box appears.

4. Select Issue control certificate for Security Gateway and press < Enter > .

The dialog box prompting for a CSR appears.

5. Select **Yes** and press **<Enter>**.

The dialog box with the list of files detected on the USB drive appears.

Note.

By default, the CSR file name is continent-XX.req where XX is the Security Gateway ID.

6. Select the required file and press **Enter**>.

The dialog box prompting you to select a root certificate appears.

7. Select the required root certificate and press < Enter>.

The control certificate file is successfully created. You will receive the respective message.

8. Press < Enter > .

You will be returned to the Issue certificate menu.

9. Select Back to previous menu and press < Enter>.

You will be returned to the Control channel certificates menu. The new certificate is displayed in the list.

To create a Security Gateway using the Security Management Server local menu:

1. Select Tools and press < Enter > .

The **Tools** menu appears.

2. Select Create Security Gateway and press < Enter>.

The dialog box prompting you to insert a USB drive appears.

3. Insert a USB drive and press < Enter>.

The dialog box prompting for a Security Gateway ID appears.

Note

The Security Gateway ID is an identifier shown on the Security Gateway hardware appliance case, in its datasheet, and in the local menu.

4. Enter the Security Gateway ID and press < Enter >.

The dialog box prompting for a Security Gateway control certificate appears.

5. Select the certificate for the Security Gateway and press **Enter**>.

The process of Security Gateway creation starts. When the operation is completed, the respective message appears. The configuration file of the Security Gateway will be exported to the USB drive.

6. Press **<Enter>**.

You will be returned to the **Tools** menu.

Note.

The configuration file name is **gate-XX.json**, where **XX** is the Security Gateway ID.

7. Remove the USB drive.

To configure and connect Security Gateway to the Security Management Server:

Note

Prepare a USB drive with the configuration file gate-XX.json (XX is the Security Gateway ID).

- 1. Insert the prepared USB drive.
- 2. In the main menu of the Security Gateway, select **Connect to Security Management Server** and press <**Enter**>.

The warning message appears as in the figure below.



3. Select **Yes** and press **<Enter>**.

The list of files from the USD drive appears.

4. Select the required file with the .**ison** extension and press **<Enter>**.

The window for selecting the Security Gateway management interface appears.

5. Select an interface that will be used for connection to the Security Management Server and press **<Enter>**.

The window for configuring the Security Gateway management interface appears.

6. Type its IP address and mask, the IP address of the gateway (if necessary) and press **Enter**>.

The window prompting you to confirm the new settings appears.

7. Select **Yes** and press **<Enter>**.

When the operation is completed, you receive the respective message.

8. Press < Enter>.

To confirm the Security Gateway configuration:

Note

If you receive a message about the lock takeover in the Configuration Manager, reconnect the Security Management Server.

1. In the Configuration Manager, go to **Structure**.

The list of Security Gateways appears in the display area.

Note.

If you cannot see the local version of the Security Gateway configuration in the list, click Refresh on the toolbar.

2. Select the Security Gateway and click **Confirm changes** on the toolbar.

The dialog box prompting you to confirm local changes appears.

3. Click Yes.

When the system applies all changes to the Security Management Server configuration and saves it to the database, you receive the respective message.

Note

It may take up to several minutes to send local changes to the Security Gateway configuration to the Security Management Server. If the configuration is not sent within **1–2** minutes, check the connection between the Security Management Server and the Security Gateway. If the connection between the Security Gateway and the Security Management Server is lost during the application of local changes, the local changes are applied only on the Security Gateway and are not sent to the Security Management Server. In this case, the message **There are unapplied local changes** appears until a restart. To send changes to the Security Management Server after the Security Gateway re-established connection between the Security Gateway and the Security Management Server, click **Confirm changes** in the Security Gateway local menu.

4. Click OK.

To link a license to a Security Gateway in the Configuration Manager:

- 1. Go to Administration and select Licenses.
- 2. Select the Security Gateway in the list and click **Link license** on the toolbar.

The dialog box with all available licenses under the following conditions appears:

- The license has not expired;
- The platform type of the license (if specified) matches the platform type of the linked Security Gateway;
- The Security Gateway ID in the license (if specified) matches the ID of the linked Security Gateway.
- 3. Select the required license and click **OK**.

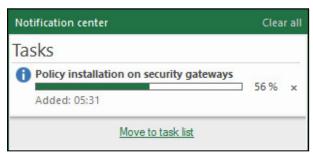
The license will be linked to a Security Gateway and removed from the repository to the linked license group.

- 4. To save settings to the configuration, click the main menu button and then click Save.
- 5. On the toolbar, click **Install**.

The dialog box for applying policies to the gateways appears.

6. In the Install policy dialog box, select the required Security Gateway and click OK.

The task to install the policy on the selected Security Gateway is created and the notification center appears. It displays the progress of tasks.



Case 3

To connect a Security Gateway to the Security Management Server, take the following steps:

- 1. Issue a Security Gateway certificate in the Configuration Manager (see below).
- 2. Create a Security Gateway in the Configuration Manager (see p. 32).
- **3.** Export Security Gateway configuration in the Configuration Manager (see p. **34**).
- 4. Configure and connect Security Gateway to the Security Management Server using the local menu (see p. 34).
- 5. Confirm Security Gateway configuration in the Configuration Manager (see p. 35).
- **6.** Link a license to a Security Gateway in the Configuration Manager (see p. **36**).

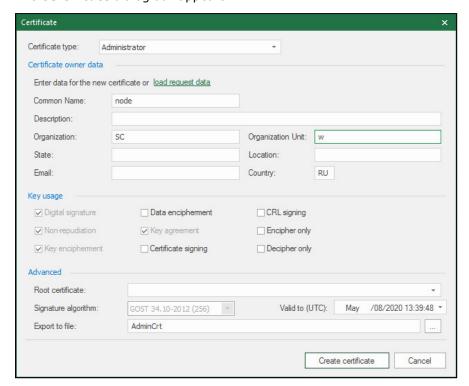
To issue a Security Gateway certificate in the Configuration Manager:

- 1. Go to the Administration section.
- **2.** In the list of certificates, click **Personal certificates**.

The list of installed personal certificates appears in the display area.

3. On the toolbar, click **Certificate**.

The **Certificate** dialog box appears.



- **4.** In the **Certificate type** drop-down list, select **Security gateway**. Specify all required parameters in the **Certificate owner data** and **Key usage** sections.
- **5.** In the **Advanced** section, in the **Root certificate** drop-down list, select one that was created during the Security Management Server configuration. Specify an expiration date.
- **6.** Click , select the destination folder of the USB drive, specify the name for the files and click **Save**.
- 7. Click Create certificate.

The dialog box prompting you to enter a password for the container appears.

8. Enter the password and confirm it, click OK.

The Security Gateway certificate file (*.cer), the certificate request (*.req) and the key container (in the topsecretkey folder) are created and exported to the USB drive. Then, the certificate data is displayed in the list.

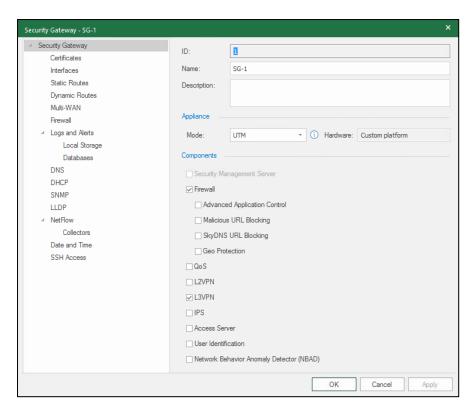
To create a Security Gateway in the Configuration Manager:

Attention!

Before creating the Security Gateway, make sure that the Security Management Server is able to connect the Security Gateway.

- 1. In the Configuration Manager, go to the **Structure** section.
- 2. On the toolbar, click Security gateway.

The **Security Gateway** dialog box appears.



3. In the **ID** text box, type the Security Gateway ID; in the **Name** and **Description** text boxes, type the respective information.

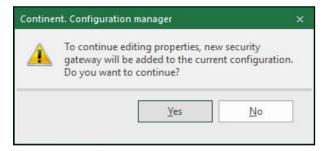
Attention!

- For the **Name** text box, you can use only English letters, digits and symbols, such as "-" and ".". The name length cannot be more than **32** characters.
- The Security Gateway ID is an identifier shown on the Security Gateway hardware appliance case, in its datasheet, and in the local menu.
- **4.** In the **Hardware** section, select the platform from the drop-down list.

When deploying a Security Gateway on the virtual machine, select Custom platform ang go to step 11.

5. In the Security gateway section, select Interfaces.

The dialog box prompting you to continue appears.

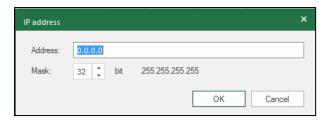


6. Select Yes.

The list of interfaces appears.

- **7.** Select an interfaces for managing Security Management Server. The interface numbers are mentioned in the device passport.
- 8. In the Address/Mask column, click ■.

The **IP address** dialog box appears.



- 9. Specify an IP address, a mask prefix and click OK.
- **10.** If necessary, specify a default route. To do so, select **Static routes** on the left of the **Security Gateway** section and click.

In the respective dialog box, specify a destination IP address and the next node in the route, then click **OK**.

11. In the Security gateway section, select Date and Time.

The dialog box prompting you to confirm changes appears.

12. Specify the time zone.

Attention!

The time zone must be the same for all the Security Gateways (including Security Management Servers). It is required for correct logging and audit.

13. In the Security gateway section, select Certificates.

A list of certificates appears.

14. In the **Server certificates** field, click to load a new certificate.

The **Certificate** dialog box appears.

15. Select the control channel certificate that was created during the previous procedure.

The Security Gateway certificate is displayed on the list.

16. In the **Root certificates** field, click to add a new certificate.

The **Certificate** dialog box appears.

17. Select the root certificate from the list (see [1]) and click **OK**.

Note

To update the software, use the pre-installed Trusted Publisher certificate. It cannot be used for other purposes.

The created Security Gateway certificate appears on the list.

18. Click **OK**.

The created Security Gateway appears on the list.

19. Save the changes by selecting Save from the drop-down menu in the upper left corner.

To export the Security Gateway configuration file in the Configuration Manager:

- **1.** Insert the USB drive to save the configuration file onto it.
- 2. Go to Structure, select the Security Gateway in the list and click Export on the toolbar.

The configuration is saved automatically and the File Explorer appears.

3. Specify the path to the USB drive root folder and click **Save**.

Note

By default, the configuration file name is **gate-XX.json** (**XX** is the Security Gateway ID).

When the Security Gateway configuration file is created, the respective message appears.

4. Click OK.

To configure the Security Gateway and connect it to the Security Management Server:

Note.

Prepare a USB drive with the configuration file gate-XX.json (XX is the Security Gateway ID).

- 1. Insert the USB drive.
- 2. In the main menu of the Security Gateway, select **Certificates | Control channel certificates** and press <**Enter>**.

The **Control channel certificates** window appears.

3. Press **<F5>**.

The window for selecting the request file appears.

4. Select the required file with the **.req** extension and press **<Enter>**.

The window for selecting the private key container appears.

5. Select the required private key container and press **<Enter>**.

The password entry window appears.

6. Enter the password and press<**Enter**>.

The certificate request file and key information will be imported. When the operation is completed, you receive the respective message.

7. In the main menu of the Security Gateway, select **Connect to Security Management Server** and press <**Enter>**.

The warning message appears as in the figure below.



8. Select **Yes** and press **<Enter>**.

The list of files from the USB drive appears.

9. The following actions depend on the type of a platform:

For platforms of the **Unknown type**, perform the following steps:

• Select the required file with the .json extension and press < Enter>.

The window for selecting the Security Gateway management interface appears.

 Select an interface that will be used for connection to the Security Management Server and press

The window for configuring the Security Gateway management interface appears.

Type its IP address and mask, the IP address of the gateway (if necessary) and press < Enter>.

The window prompting you to confirm the new settings appears.

• Select **Yes** and press **<Enter>**.

The Security Gateway configuration will start. When the operation is completed, you receive the respective message.

For platforms of the type different from **Unknown type**, take the following step:

Select the required file with the .json extension and press < Enter>.

The Security Gateway configuration will start. When the operation is completed, you receive the respective message.

10. Press < Enter>.

To confirm the Security Gateway configuration:

Note.

If you receive a message about the lock takeover in the Configuration Manager, reconnect the Security Management Server.

1. In the Configuration Manager, go to **Structure**.

The list of Security Gateways appears in the display area.

Note.

If you cannot see the local version of the Security Gateway configuration in the list, click Refresh on the toolbar.

2. Select the Security Gateway and click **Confirm changes** on the toolbar.

The dialog box prompting you to confirm local changes appears.

3. Click Yes.

When the system applies all changes to the Security Management Server configuration and saves it to the database, you receive the respective message.

Note.

It may take up to several minutes to send local changes to the Security Gateway configuration to the Security Management Server. If the configuration is not sent within 1–2 minutes, check the connection between the Security Management Server and the Security Gateway. If the connection between the Security Gateway and the Security Management Server is lost during the application of local changes, the local changes are applied only on the Security Gateway and are not sent to the Security Management Server. In this case, the message There are unapplied local changes appears until a restart. To send changes to the Security Management Server after the Security Gateway re-established connection between the Security Gateway and the Security Management Server, click Confirm changes in the Security Gateway local menu.

4. Click OK.

To link a Security Gateway license in the Configuration Manager:

- 1. Go to Administration and select Licenses.
- 2. Select the Security Gateway in the list and click **Link license** on the toolbar.

The dialog box with all available licenses under the following conditions appears:

- The license has not expired.
- The platform type of the license (if specified) matches the platform type of the linked Security Gateway.
- The Security Gateway ID in the license (if specified) matches the ID of the linked Security Gateway.

For adding licenses to the repository, see [1], the **License management** section.

3. Select the required license and click **OK**.

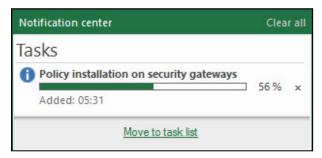
The license will be linked to a Security Gateway and removed from the repository to the linked license group.

- 4. To save the settings to the configuration, click the main menu button and then click Save.
- 5. On the toolbar, click **Install**.

The dialog box for applying policies to Security Gateways appears.

6. In the **Install policy** dialog box, select the required Security Gateway and click **OK**.

The task to install the policy on the selected Security Gateway is created and the notification center appears. It displays the progress of tasks.



Case 4

To connect the Security Gateway to the Security Management Server, take the following steps:

- 1. Create a Security Gateway CSR using the local menu (see below).
- 2. Issue a certificate in the Configuration Manager (see p. 37).
- **3.** Create a Security Gateway in the Configuration Manager (see p. **38**).
- **4.** Export the Security Gateway configuration in the Configuration Manager (see p. **36**).
- **5.** Configure the Security Gateway and connect it to the Security Management Server using the local menu of the Security Gateway (see p. **39**).
- **6.** Confirm the Security Gateway configuration in the Configuration Manager (see p. **40**).
- 7. Link a license to the Security Gateway in the Configuration Manager (see p. 40).

To create a Security Gateway CSR:

In the Security Gateway local menu, select Certificates and press < Enter>.
 The respective dialog box appears.

2. Select Certificate requests and press < Enter>.

The respective window appears.

Note.

If you create the first certificate, the list is empty.

3. Press < F4>.

The dialog box prompting you to insert a USB drive appears.

4. Insert a USB drive and press < Enter>.

The **Certificate** dialog box appears.

5. Specify the required information in the respective fields and press **<Enter>**.

The CSR will be successfully saved to the USB drive. You receive the respective message.

6. Press **<Enter>**.

You will be returned to the **Issue certificate request** dialog box.

7. Press **<Esc>**.

You will be returned to the Control channel certificates window. You can see the created CSR in the list.

To issue a certificate in the Configuration Manager:

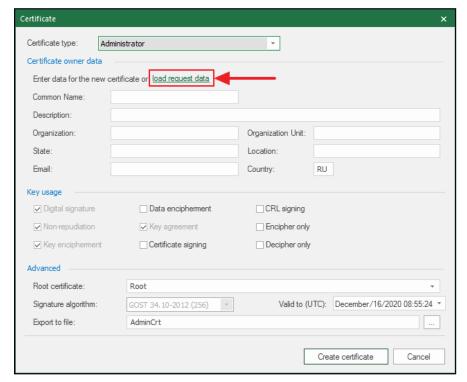
- 1. Go to the Administration section.
- 2. In the list of certificates, click **Personal certificates**.

The list of installed personal certificates appears in the display area.

3. On the toolbar, click Certificate.

The respective dialog box appears.

4. Load request data from the CSR file by clicking the respective link.



The File Explorer appears.

5. Insert the USB drive, select the required CSR file with *.req extension that is stored in the root folder of the USB drive and click **Open**.

The required information will be specified in the respective fields automatically from the CSR file.

- **6.** In the **Advanced** section, in the **Root certificate** drop-down list, select one that was created during the Security Management Server configuration and specify the expiration date.
- 7. Click Create certificate.

The certificate appears in the list.

To create a Security Gateway in the Configuration Manager:

Attention!

Before creating a Security Gateway, make sure that the Security Management Server can connect the Security Gateway.

- 1. Go to the Structure section.
- 2. On the toolbar, click **Security gateway**.
 - The dialog box appears as in the figure below.
- **3.** In the **ID** text box, type the Security Gateway ID; in the **Name** and **Description** text boxes, type the respective information.

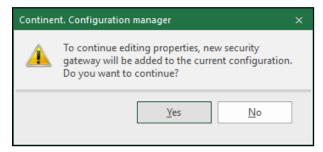
Attention!

- For the Name text box, you can use only English letters, digits and symbols, such as "-" and ".". The length cannot be more than 32 characters.
- The Security Gateway ID is an identifier shown on the Security Gateway hardware appliance case, in its datasheet, and in the local menu.
- **4.** In the **Hardware** section, select the platform from the drop-down list.

When deploying a Security Gateway on the virtual machine, select Custom platform and go to step 11.

5. In the Security Gateway section, select Interfaces.

The dialog box prompting you to confirm changes appears.

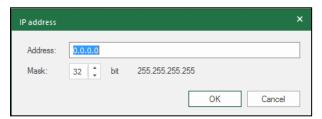


6. Select Yes.

The list of interfaces appears.

- **7.** Select an interface for managing Security Management Server. The interface numbers are mentioned in the device passport.
- 8. In the Address/Mask column, click ■.

The IP address dialog box appears.



- **9.** Specify an IP address, a mask prefix and click **OK**.
- **10.** If necessary, specify a default route. To do so, select **Static routes** on the left of the **Security Gateway** section and click.

In the respective dialog box, specify a destination IP address and the next node in the route, then click OK.

11. In the Security Gateway section, select Date and Time.

You can see settings for the Security Gateway time on the right.

12. Specify the time zone.

Attention!

The time zone must be the same for all the Security Gateways (including Security Management Servers). It is required for correct logging and audit.

13. In the Security Gateway section, select Certificates.

A list of certificates appears.

14. In the **Server certificates** field, click to load a new certificate.

The **Certificate** dialog box appears.

15. Select the control channel certificate that was created during the previous procedure.

The Security Gateway certificate is displayed on the list.

16. In the **Root certificates** field, click to add a new certificate.

The **Certificate** dialog box appears.

17. Select the root certificate from the list (see p. **10**) and click **OK**.

Note

To update the software, use the pre-installed Trusted Publisher certificate. It cannot be used for other purposes.

The created Security Gateway certificate appears on the list.

18. Click **OK**.

The created Security Gateway appears on the list.

19. Save the changes by clicking .

To export the Security Gateway configuration file in the Configuration Manager:

- 1. Insert the USB drive to save the configuration file onto it.
- 2. Go to Structure, select the Security Gateway in the list and click Export on the toolbar.

The configuration is saved automatically and the File Explorer appears.

3. Specify the path to the USB drive root folder and click Save.

Note.

By default, the configuration file name is **gate-XX.json** (**XX** is the Security Gateway ID).

When the Security Gateway configuration file is created, the respective message appears.

4. Click OK.

To configure the Security Gateway and connect it to the Security Management Server:

Note.

Prepare a USB drive with the configuration file **gate-XX.json** (**XX** is the Security Gateway ID).

- 1. Insert the USB drive.
- 2. In the main menu of the Security Gateway, select Connect to Security Management Server and press <Enter>.

The warning message appears as in the figure below.



3. Select Yes and press < Enter>.

The list of files from the USB drive appears.

4. The following actions depend on the type of a platform.

For platforms of the **Unknown type**, take the following steps:

• Select the required file with the .json extension and press < Enter>.

The window for selecting the Security Gateway management interface appears.

• Select an interface that will be used for connection to the Security Management Server and press < Enter>.

The window for configuring the Security Gateway management interface appears.

- Type its IP address and mask, the IP address of the gateway (if necessary) and press < Enter>.
 The window prompting you to confirm the new settings appears.
- Select Yes and press < Enter>.

The Security Gateway configuration will start. When the operation is completed, you receive the respective message.

For platforms of the different from the **Unknown type** type, perform the following steps:

• Select the required file with the .json extension and press < Enter >.

The Security Gateway configuration will start. When the operation is completed, you receive the respective message.

5. Press < Enter > .

To confirm the Security Gateway configuration:

Note

If you receive a message about the lock takeover in the Configuration Manager, reconnect the Security Management Server.

1. In the Configuration Manager, go to **Structure**.

The list of Security Gateways appears in the display area.

Note:

If you cannot see the local version of the Security Gateway configuration in the list, click Refresh on the toolbar.

2. Select the Security Gateway and click **Confirm changes** on the toolbar.

The dialog box prompting you to confirm local changes appears.

3. Click Yes.

When the system applies all changes to the Security Management Server configuration and saves it to the database, you receive the respective message.

4. Click OK.

To link a Security Gateway license in the Configuration Manager:

- 1. Go to Administration and select Licenses.
- 2. Select the Security Gateway in the list and click **Link license** on the toolbar.

The dialog box with all available licenses under the following conditions appears:

- · The license has not expired.
- The platform type of the license (if specified) matches the platform type of the linked Security Gateway.
- The Security Gateway ID in the license (if specified) matches the ID of the linked Security Gateway.
- 3. Select the required license and click **OK**.

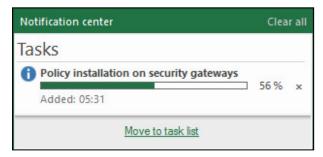
The license will be linked to a Security Gateway and removed from the repository to the linked license group.

- 4. To save the settings to the configuration, click the main menu button and then click Save.
- 5. On the toolbar, click Install.

The dialog box for applying policies to the gateways appears.

6. In the **Install policy** dialog box, select the required Security Gateway and click **OK**.

The task to install the policy on the selected Security Gateway is created and the notification center appears. It displays the progress of tasks.



Security Gateway creation wizard

You need to prepare a USB drive to export extended containers with information for the Security Gateway initialization, certificates and configuration files. You can initialize the Security Gateway using the local menu and the extended container without connection to the Security Management Server.

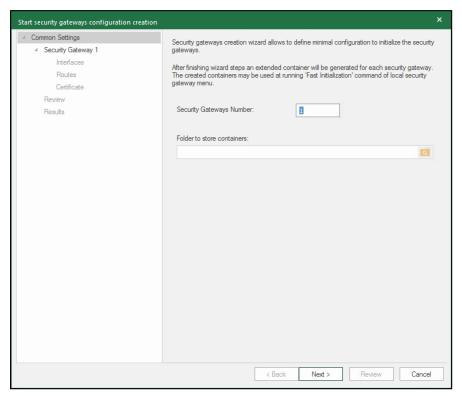
To deploy a group of Security Gateways:

- **1.** Create a group of Security Gateways and generate extended containers using the Configuration Manager (see below).
- 2. Initialize each Security Gateway using the local menu and the extended container (see p. 42).

To create a group of Security Gateways and generate containers using the Configuration Manager:

- 1. In the Configuration Manager, go to Structure.
- 2. Click Creation wizard on the toolbar.

The Start security gateways configuration creation dialog box appears.



3. Specify the required value in the **Security Gateways Number** text box (from **1** to **50**), select the USB flash drive for saving containers and click **Next**.

The **Security Gateway 1** tab opens.

4. Enter the Security Gateway ID in the ID text box and the Security Gateway name and description in the respective text boxes.

Note

The Security Gateway ID is an identifier shown on the Security Gateway hardware appliance case, in its datasheet, and in the local menu. In the **Name** text box you can use only Latin letters, digits and the "-" symbol. The length cannot exceed **32** symbols.

5. Select the platform from the **Hardware** drop-down list and click **Next**.

The **Interfaces** tab opens.

6. Configure the required network interfaces of the Security Gateway (see [6]) and click Next.

The **Routes** tab opens.

7. To add a new static route, click.

In the opened dialog box, specify the destination IP address, next gateway and **Metric** cell (see [6]). Click **OK**.

8. After adding all required static routes click OK.

The **Certificate** tab opens.

9. Fill in the Organization and Password text boxes. Click Next.

A tab with the overview of the next Security Gateway opens.

10. Repeat steps 4-8 for every Security Gateway.

The **Review** tab opens.

11. Check the specified data and click **Export**.

The **Results** tab opens.

12. Wait for the Completed status for all Security Gateways and click Finish.

The created Security Gateways are added to **Structure**, extended containers — to the USB flash drive.

To initialize the Security Gateway using the extended container:

1. In the Security Gateway local menu (see p. 7), select **Initialization** and press **Enter**>. The dialog box where you can select the initialization type appears.

```
Initialize this device as:

( ) Security Gateway with Security Management Server
( ) Security Gateway with Standby Security Management Server
( ) Security Gateway
(*) Security Gateway - Quick deploy

[ Start initialization ] [ Cancel ]
```

- 2. Insert the USB drive with extended containers in the USB port.
- 3. Select Security Gateway Quick deploy and press < Enter>.
- **4.** Select the required extended container file in the opened dialog box.

The dialog box prompting you to enter the password appears.

5. Enter the password and press **<Enter>**.

The system time dialog box appears.

6. Specify date and time in UTC+0 format and press **Enter**>.

The Security Gateway applies system time and the respective notification appears.

7. Press < Enter >.

The Security Gateway initialization starts. When initialization is completed, you receive the respective message.

8. Press < Enter > .

Note.

The policies are applied to the Security Gateway only if a license is added (see [1], Licenses).

Appendix

Connect portable devices to the Security Gateway

Attention!

You can connect a portable device only to the local menu.

To manage the Security Gateway, you can use a portable device (e.g., a laptop) connected through the console port.

You can connect the portable device using an RJ-45-DB-9 cable. A laptop must be equipped with a terminal emulator (e.g., PuTTY).

Attention!

A serial port can be disabled by default. You can enable it in the platform BIOS (in **Advanced** switch the **Serial Port** and **Serial Port Console Redirection** parameters to **Enabled**).

Connect one end of the cable to the 9-pin serial port connector of the laptop, then connect the other end of the cable to the RJ-45 connector on the front panel of the network device. If the laptop does not have this connector, you can use a converter (for example, MOXA).

Run the terminal emulator on the laptop and specify the following parameters:

Parameter	Value
Port	Specify value from Device Manager of the laptop
Bits per second	115,200
Connection type	serial
Data bits	8
Without parity check	Yes
Stop bits	1
Encoding	UTF-8
Function keys and keyboard	Linux

Connect to the serial port with the specified parameters. If the local menu has not appeared, press **Esc**>, then press **Enter**>.

Automatic logon timeout cannot be equal to **0**. This parameter means the time after which the OS starts. "**0**" means that the automatic OS startup is disabled. The default value of the parameter is **5** seconds.

When connecting using the serial port, you need to log on Sobol as a user (without presenting a security token). The OS starts automatically when automatic logon timeout is over.

If you log on to Sobol as a user but **Automatic logon timeout** is 0, the OS will not start. You need to present a security token. When the RNG test is finished, Sobol shows invalid security token data. Press **Enter**> to change the image on the screen, then press **Enter**> again to start the OS.

If you log on to Sobol as an administrator (by presenting a security token), the OS will not start. In this case, you need to press **<Enter>** to change the image on the screen, then press **<Enter>** again to start the OS.

Attention

When you have finished working using the serial port, disable it in the platform BIOS (in **Advanced**, switch the **Serial Port** and **Serial Port Console Redirection** parameters to **Disabled**).

To manage connections using the Security Gateway local menu:

- 1. In the Main menu of the Security Gateway, select Settings and press <Enter>.
 - The **Settings** menu appears.
- 2. Select Serial console and press <Enter>.
 - The **Serial console settings** dialog box appears.
- **3.** To forbid the connection through the console port, select **Turn off serial console** and press **<Enter>**. You receive the message about the serial console shutdown.

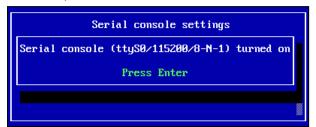


4. Press <Enter>.

The name of the option in the **Serial console settings** menu changes to the opposite.

5. To connect through the console port, select **Turn on serial console** and press **<Enter>**.

You receive the message about the serial console initiation containing recommendations about the data transfer speed and data bits.



6. Press <Enter>.

The name of the option in the **Serial console settings** menu changes to the opposite.

To manage connections in BIOS:

Note.

To navigate between tabs and options of BIOS, use the navigation keys to select the option or change its state, then press < Enter>.

1. Turn on the Security Gateway and enter BIOS.

Note.

Usually you can press to enter the menu, but on some platforms you can press <F1> or <F2>.

The dialog box prompting a password appears.

2. To enter BIOS, type the current password (by default it is 123456) and press <Enter>.

The BIOS setup menu appears. The kind and contents of the menu depends on the Security Gateway platform type and BIOS version. BIOS version LN010AISC.003 is described further. The menu of other BIOS versions can vary.

- 3. Go to advanced settings, select Serial Port Console Redirection.
- 4. To connect through the console port, Console Redirection must have the Enable value.
- **5.** To forbid the connection through the console port, **Console Redirection** must have the **Disable** value.
- 6. To view the connection settings through the console port, select Console Redirection Settings.

Note.

We do not recommend changing the connection settings through the console port.

7. Save the changes and close the BIOS settings menu.

The Security Gateway restarts.

Change the password to enter BIOS

To change the password:

- 1. Connect a keyboard and a monitor to the Security Gateway.
- 2. Turn on the Security Gateway and enter BIOS.

Note

Usually you can press to enter the menu, but on some platforms you can press <F1> or <F2>.

The dialog box prompting a password appears.

3. To enter BIOS, type the current password (by default it is **123456**) and press **<Enter>**.

The BIOS setup menu appears. The kind and contents of the menu depend on the platform type of the network device.

- **4.** Go to the change password tab (usually it is **Security**), select **Administrator Password** and press **<Enter>**. The dialog box prompting the current password appears.
- **5.** Type the current password and press **<Enter>**.

The dialog box prompting a new password appears.

6. Type the new password and press **<Enter>**.

The dialog box prompting the password confirmation appears.

- **7.** Confirm the password and press **<Enter>**.
- 8. Save the changes and close the BIOS settings menu.

The Security Gateway restarts.

Network interface syntax

In Continent, a network interface has the following structure:

<bandwidth>-<bus>-<interface>

• **<bar>bandwidth>** is a prefix showing the maximum bandwidth of the interface. See the following table:

Prefix	Bandwidth
ge	1 Gbit/s
te	10 Gbit/s
qe	40 Gbit/s

- **<bus>** is the device address on the motherboard (0, 1, 2,...);
- **<interface>** is the interface number in the module (0-3) if it contains several interfaces.

Examples:

te-0-0

ge-1-1

Documentation

- **1.** Continent Enterprise Firewall. Version 4. Administrator guide. Management.
- 2. Continent Enterprise Firewall. Version 4. Administrator guide. Monitoring and Audit.
- **3.** Continent Enterprise Firewall. Version 4. Administrator guide. Networking functions.
- **4.** Continent Enterprise Firewall. Version 4. Administrator guide. Installation and Update.