



Gateway 6.17.3 Upgrade Guide

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Gateway Upgrade guide

1

Axway Gateway (formerly XFB Gateway) is an Axway product in the Managed File Transfer category, that serves as a communication gateway. It provides a secure front end for handling data exchange between partners that are connected via public networks such as the Internet.

Get more help

Tip: online documentation lists

To find available documents for most Axway products and versions:

1. Go to <https://docs.axway.com/bundle>.
2. In the left pane Filters list, select your product or product version.

Note Customers with active support contracts can log in to access restricted content.

Full documentation set

Here's the full list of the Gateway documentation set (including this guide):

- Axway Gateway [User guide](#)
The main guide for Axway Gateway. As the users of this software mostly have an administrator profile, this guide serves as an Administration guide
- Axway Gateway [Release Notes](#)
- Axway Gateway [Installation Guide](#)
Provides information about installation and prerequisites
- Axway Gateway [Configuration Guide \(UNIX\)](#)
Provides information specific to different variants of the UNIX Operating System
- Axway Gateway [Upgrade guide](#) (this guide)
This guide helps to perform the migration between towards Gateway 6.17.3
- Axway Gateway [Security guide](#) (requires login)
This guide provides instructions and recommendations to help you strengthen the security of Axway Gateway. To protect your data from possible hackers, access to this guide requires an Axway login.
- Axway Gateway [Interoperability Guide](#)
Provides information relevant to interoperability with other products, such as Composer, Gateway Navigator, Integrator

Documentation of other related products

- Axway Secure Relay Master Agent Administrator Guide
- Axway Secure Relay Router Agent Administrator Guide

Gateway documentation set

For more information about Gateway and how it is used with other with other Axway products, refer to:

- Axway Interoperability Matrix
- Axway Supported Platforms

Training services

Axway offers training across the globe, including on-site instructor-led classes and self-paced online learning. For details, go to: <https://www.axway.com/en/services/training-certification>

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Links to documentation set for Axway Gateway 6.17.3:

- [Installation](#) -- [User](#) -- [Unix Configuration](#) -- [Upgrade](#) -- [Interoperability](#) -- [Security](#), requires login -- [Release Notes](#)

Plan the migration

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If you are responsible for upgrading an existing Gateway installation to Gateway 6.17, read this section to help you plan your upgrade activities.

Should I upgrade?

Before you upgrade, determine if upgrading is appropriate for your environment and production requirements:

- Review the Gateway Release Notes for:
 - New features
 - Fixed issues
 - Known limitations
- Evaluate the effort required for this upgrade. You should consider:
 - Length and impact of product down time: the existing Gateway is be stopped in the course of the upgrade process.

Minimum version requirement

To upgrade to Gateway 6.17, you must have Gateway 6.16 installed.

You can verify the Gateway version using the `peladm -Identity` command or consulting the *.out files.

Upgrade method

The upgrade method used is to install a new version of the product. Commands are provided for exporting the configuration from the old Gateway installation to the new one.

Links to documentation set for Axway Gateway 6.17.3:

- [Installation](#) -- [User](#) -- [Unix Configuration](#) -- [Upgrade](#) -- [Interoperability](#) -- [Security](#), requires login -- [Release Notes](#)

This topic explains what you must do before upgrading from Gateway V6.16.x to Gateway V6.17.

Preparation

Record the characteristics of your Gateway installation

Before upgrading to a new version of Gateway, record the characteristics of your existing installation. Use the tables provided in the [Audit form](#) to note the recorded values.

Suspend Axway Gateway activity

During the upgrade procedure for the Mailbox, you must stop Gateway. To limit downtime, it is recommended that you analyze Gateway activity.

Stop Gateway when the file transfer activity is at a minimum, that is:

- After purging the Mailbox
- Once each transfer has been completed and routed
- When no transfer deposit is being performed via batches or programs

List custom procedures and programs

List the set of procedures and programs that are linked to Gateway:

- Automatic procedures (start, stop, purge, log...)
- Transfer Request deposits
- Programs that use the APIs

Record Gateway Navigator characteristics

Keep in mind that the version of Gateway Navigator (Gateway client) is linked to the version of Gateway. You must install the correct version of Gateway Navigator.

List the workstations where Gateway Navigator is installed.

Links to documentation set for Axway Gateway 6.17.3:

- [Installation](#) -- [User](#) -- [Unix Configuration](#) -- [Upgrade](#) -- [Interoperability](#) -- [Security](#), requires login -- [Release Notes](#)

Overview of migration tools

The table below lists the tools available for the upgrade of Gateway objects. You use these tools during the upgrade procedure.

For detailed information about the pelbase command, and other upgrade tools, refer to the Axway Gateway online user documentation.

Upgrade tool	Object
pelbase	• Sites • Applications • Models • Diffusion Lists • Profiles • Users • Connection Gates (CGates) • Connection Gate Groups (CGateGroups) • Decision Rules • Rule Tables • Proxies • Purge Models • Trading Partners • Properties List • Axway Messaging (formerly XMS) connector • Super Connection Gates (SGates) • Super Connection Gate Groups (SGateGroups)
pelmig	• Transfer Requests (Mailbox)
secbase	• Security objects
vfdbase	• Virtual File Directories (VFD)

Links to documentation set for Axway Gateway 6.17.3:

- [Installation](#) -- [User](#) -- [Unix Configuration](#) -- [Upgrade](#) -- [Interoperability](#) -- [Security](#), requires login -- [Release](#)

Notes

Retain or recreate

Files you can copy

During the upgrade procedure, you can copy the following files, if they exist, from a previous version of Gateway:

From run_time/data/ :

- Character conversion tables: table.trn, ascii.trn, ebcdic.trn, iso.trn, user1.trn, user2.trn, oempc.trn
- Security tables: tablex25.adr, tableip.adr
- Statistics dictionary: statdic.dat
- Mailbox file: xferb.dat

From run_time/etc/ :

- Files: tcpoport.ini

Files to regenerate

You **cannot** copy the following files from a previous version - you must regenerate them:

From run_time/data/

- Log file: log.dat
- Mailbox file: xfer.dat
- Context files: *ctx.dat
- Database files: admin.dat, cert.dat, cgate.dat, cgategroup.dat, dlist.dat, key.dat, nprof.dat, prof.dat, profile.dat, proxy.dat, ruledec.dat, ruletab.dat, rules.dat, sprof.dat, sshprof.dat, stat.dat, user.dat

From run_time/etc/

- Configuration file: conffile
- Environment file: profile or profile.bat

User exits

User exits (exits from protocol connections) must be recompiled, and their links regenerated in the Gateway 6.17 environment. For more information, refer to [Step 5: upgrade exits](#).

Links to documentation set for Axway Gateway 6.17.3:

- [Installation](#) -- [User](#) -- [Unix Configuration](#) -- [Upgrade](#) -- [Interoperability](#) -- [Security](#), requires login -- [Release Notes](#)

Before you start migration

Before you start the upgrade, export the Gateway objects, Virtual File Directories and security objects as described in the following sections.

Check pending transfers for routing

The upgrade must be made with no routing scheduled.

It is strongly advised to check the routing queue by using the `pmqctl` command:

```
pmqctl info run_time\data\router.pmq
```

Example output:

```
--  
  
signature : a1b2c3d4  
version_major : 1  
version_minor : 0  
  
status : 0  
  
reader_pid : 0  
  
sequence : 30  
  
sync_seqn : 29  
  
read_index : 66775  
write_index : 66775  
  
end_index : 4000000  
  
--  
  
0 records total, 0 bytes total
```

If both `read_index` and `write_index` have the same value, then the queue is empty.

Alternatively use the `pmqcheck.sh` script. This gives a more readable form of the `pmqctl` command output:

```
pmqcheck.sh
```

```
Checking file "[...]/V6.13/run_time/data/router.pmq"
```

```
R2=66775 W2=66775 E2=4000000 D=0
```

```
"[...]/V6.13/run_time/data/router.pmq" is empty
```

Export Gateway objects

While the existing version of Gateway is running, use the pelbase command to export the objects (Sites, Applications, Models...) to an editable output file (for example, output_file).

Use the -append parameter to concatenate at the end of the file. When using the -append parameter, the order in which you export the objects is important. Export:

- User Profiles **before** Users
- Connection Gate Groups **before** Connection Gates
- Super Connection Gate Groups **before** Super Connection Gates
- Decision Rules **before** Rule Tables

Export Users

When exporting Users, you must be logged in as administrator to export user passwords. If not, each character of the password appears as an asterisk in the output file. In this case you need to redefine the user passwords after upgrading to the new version of Gateway.

Export command examples

- Export Sites:
pelbase export_site -f output_file
- Export Applications:
pelbase export_appli -f output_file -append
- Export Models:
pelbase export_model -f output_file -append
- Export Diffusion Lists:
pelbase export_list -f output_file -append
- Export User Profiles:
pelbase export_profile -f output_file -append
- Export Users:
pelbase export_user -f output_file -append
- Export Connection Gate Groups:
pelbase export_cgategroup -f output_file -append
- Export Connection Gates:
pelbase export_cgate -f output_file -append
- Export Decision Rules:
pelbase export_decisionrule -f output_file -append
- Export Rule Tables:
pelbase export_ruletable -f output_file -append
- Export Proxies:
pelbase export_proxy -f output_file -append
- Export Purge Models:
pelbase export_purge_model -f output_file -append
- Export Property Lists:

```
pelbase export_proplist -f output_file -append
```

- Export Trading Partners:
pelbase export_tradepart -f output_file -append
- Export Axway Messaging connectors:
pelbase export_xmsctor -f output_file -append
- Export Super Connection Gate Groups:
pelbase export_sgategroup -f output_file -append
- Export Super Connection Gates:
pelbase export_sgate -f output_file -append

The objects that can be exported or imported depend on the version of Gateway, as shown in the following table:

Objects	V6.17	V6.16.0	V6.16.1
Site (site)	✓	✓	✓
Application (appli)	✓	✓	✓
Model (model)	✓	✓	✓
Diffusion List (list)	✓	✓	✓
User (user)	✓	✓	✓
User profile (profile)	✓	✓	✓
Connection Gate (cgate)	✓	✓	✓
Connection Gate Group (cgategroup)	✓	✓	✓
Decision Rule (decisionrule)	✓	✓	✓
Rule Table (ruletable)	✓	✓	✓
Proxy (proxy)	✓	✓	✓
Trading Partner (tradepart)	✓	✓	✓
Axway Messaging connector (xmsctor)	✓	✓	✓
Property List (proplist)	✓	✓	✓
Purge Model (purge_model)	✓	✓	✓
Super Connection Gate (sgate)	✓	✓	✓

Super Connection Gate Group (sgategroup)	✓	✓	✓
--	---	---	---

Logical sites

It is not recommended to import Logical Sites. Logical Sites are still supported in this version of Gateway, but are no longer accessible via the GUI.

Export Virtual File Directories (VFD)

While the previous version of Gateway is running, export Virtual File Directories to an output file that can be edited (for example, `vfd_output_file`):

```
vfdbase export -f vfd_output_file
```

Export security objects

While the previous version of Gateway is running, export security objects to an output file that can be edited. For example, to export Network Profiles to the file `nprof_output_file`, enter:

```
secbase export_netprof -f nprof_output_file
```

You can also export:

- Security Profiles (sprof), using the `secbase export_sprof` command
- SSH Security Profiles (sshprof), using the `secbase export_sshprof` command
- Certificates, using the `secbase export_cert` command
- Keys, using the `secbase export_key` command

Links to documentation set for Axway Gateway 6.17.3:

- [Installation](#) -- [User](#) -- [Unix Configuration](#) -- [Upgrade](#) -- [Interoperability](#) -- [Security](#), requires login -- [Release Notes](#)

Before upgrading to a new version of Gateway, record the characteristics of your existing installation. Use the tables provided in this topic.

General information

Operating system

Gateway version number (#)

Name and alias of the Local Site (*)

(#) Recover this information using the `peladm -Identity` command or consult the *.out files.

(*) Recover this information via the Gateway configuration menu.

Security

Recover the following information via the Gateway configuration menu.

User access control

Default user name

Connection control

Check database protection

Option:

Password derived key file:

Password encrypted file:

Note that Password derived key file and Password encrypted file can be copied from 6.16.x or can be recreated using `pelencpass` command.

Protocols

Recover the following information via the Gateway configuration menu.

	TCP/IP Address/Port	SSL
PEL		

PeSIT HS D

PeSIT HS E

OFTP

FTP

HTTP

SMTP

POP3

SFTP

AS1

AS2

AS3

RosettaNet

SWIFTNet

JMS

Server

Recover the following information via the Gateway configuration menu.

APICS Axway MFT Navigator (IUI - Internet User Interface)

Local address

Listening port

TLS

Maintenance

Recover the following information via the Gateway **Configuration** menu.

Archive of the log file

Connectors

Recover the following information via the Gateway **Configuration** menu.

Axway Integrator	Address for the Integrator server:
	Listening port:
	Directory:
Passport PS	Address for the PassPort PS server:
	Listening port for the Passport PS server:
	Listening port for the passport PS server with TLS:
	Component Login:
	Passport CA certificate:
	Client certificate location:
Passport PM V3.3, V3.4	Directory where PassPort PM is installed:
	PassPort PM parameters file:
Passport PM/AM V4.x	Address for the Passport PM/AM server:
	Listening port for the Passport PM/AM server:
	Listening port for the Passport PM/AM server with TLS:
	Passport PM/AM server:
	Login for Passport PM/AM server:
	Password for Passport PM/AM Server:
	Passport CA certificate:
	Client certificate location:
Axway Sentinel	Address for the Sentinel Server:
	Listening port:
	Backup address:
	Listening backup port:
	Transfer filter Server CA:
	Log filter:

Others

Programs that call the APIs:

Installation directory:

Default reception directory:
(Recover this information via
the Gateway configuration menu)

Encryption of received files:

Files that contain the certificates:

Specific parameters set in the files

- conffile
 - conffile.ini
under Windows)
 - pelsetup.ini
-

Parameters defined via the Gateway Configuration menu

Parameters defined via the Gateway Configuration menu can be recovered by copying *.ini files from Gateway 6.16.x.

Links to documentation set for Axway Gateway 6.17.3:

- [Installation](#) -- [User](#) -- [Unix Configuration](#) -- [Upgrade](#) -- [Interoperability](#) -- [Security](#), requires login -- [Release Notes](#)

Version-specific issues

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This topic provides information relating to the upgrade of object parameters that are not supported by earlier versions of Gateway.

Supported protocols

The following table shows the file transfer protocols supported by different versions of Gateway.

Implemented protocols	V6.17.3	V6.17	V6.16.0	V6.16.1
PEL	✓	✓	✓	✓
PeSIT D	✓	✓	✓	✓
PeSIT E	✓	✓	✓	✓
OFTP (Odette)	✓	✓	✓	✓
FTP	✓	✓	✓	✓
HTTP	✓	✓	✓	✓
ETEBAC3	no	✓	✓	✓
ETEBAC5 v1	no	✓	✓	✓
ETEBAC5 v2	no	✓	✓	✓
POP3	✓	✓	✓	✓
SMTP	✓	✓	✓	✓
SFTP	✓	✓	✓	✓
AS1_POP3	✓	✓	✓	✓
AS1_SMTP	✓	✓	✓	✓
AS2	✓	✓	✓	✓

AS3	✓	✓	✓	✓
RN_HTTP	✓	✓	✓	✓
RN_SMTP	✓	✓	✓	✓
RN_POP3	✓	✓	✓	✓
SWIFTNet	✓	✓	✓	✓
JMS	✓	✓	✓	✓
X400	✓	✓	✓	✓

Site Parameters

The following table lists the parameters which are not supported by earlier versions of Gateway. For a complete list of parameters associated with a Site definition for different versions of Gateway, refer to Axway Gateway 6.14 online documentation in the topic *Managing partners > Command line operations > Site objects: Parameters List*.

Site definition parameters	V6.17	V6.16.0	V6.16.1
input_channel	✓	✓	✓
Input_channel_window	✓	✓	✓
input_channel_force	✓	✓	✓
queue_name	✓	✓	✓
window_size	✓	✓	✓
channel_subset	✓	✓	✓
new_queue_name	✓	✓	✓
new_channel_name	✓	✓	✓
rename_queue	✓	✓	✓

Model parameters

For a complete list of parameters associated with an object definition for different versions of Gateway, refer to the Gateway online documentation, in the topic :

*Managing transfers > Parameters > Managing model objects > Command line operations > Model objects:
Parameters List*

Trading Partner parameters

For a complete list of parameters associated with Trading Partners for different versions of Gateway, refer to the Gateway online documentation in the topic:

Managing partners > Managing Trading Partner objects.

Links to documentation set for Axway Gateway 6.17.3:

- [Installation](#) -- [User](#) -- [Unix Configuration](#) -- [Upgrade](#) -- [Interoperability](#) -- [Security](#), requires login -- [Release Notes](#)

This topic describes a step by step procedure to upgrade from Gateway V6.16.x to V6.17.

Important: Before you start this upgrade procedure you must perform the operations described in [Before Upgrading](#). To avoid a conflict between the old and new environment variables, it is strongly recommended to configure the old and new versions of Gateway on separate consoles.

Step 1: Install and configure Gateway V6.17

To upgrade the configuration files from previous versions to V6.17:

1. Ensure that the previous version is **V6.16.1 SP12**.
2. Do not install the new version of Gateway in the old environment. Check that the environment variables do not point to the old version of Gateway.
3. Ensure that the old version of Gateway is stopped.
4. Ensure you have a new product key if required.
5. Download and install the latest Service Packs and patches.
6. Check the hardware and software requirements for Gateway V6.17 in the [Gateway Installation guide](#).
7. For UNIX platforms, also refer to the [Gateway Configuration Guide](#).

Procedure

1. Install Gateway V6.17.3 SP10 in a different location from the previous version. Use the same local Site name that was used in the previous version.
2. Go to the Gateway V6.17 home installation directory.
3. Back up and then remove the following files:
 - run_time/etc/newconf.ini (if it exists)
 - run_time/etc/pelsetup.ini
 - run_time/etc/dconfsave.ini
 - run_time/etc/pelsetup.def (refer to notes below)
4. Copy the following files from the previous version:
 - run_time/etc/pelsetup.ini
 - run_time/etc/dconfsave.ini
 - run_time/etc/pelsetup.def (refer to notes below)
5. Run the following command:
 - On UNIX: run_time/etc/setup_server.sh migrate
 - On Windows: run_time\etc\setup_server.bat migrate
6. Use the gatestart command to start Gateway V6.17.
7. Use the GUI to complete the information for the global and additional parameters from the information recovered during the audit (other than the specific parameters associated with different protocols).
8. Use the gatestop command to stop Gateway V6.17.

Notes

- If the file `run_time/etc/pelsetup.def` was not modified in the previous version, it is not recommended to replace the new version of this file with the previous one
- If you are using the old `pelsetup.def`, you must take the following values from the backed-up `pelsetup.def`:
 - `p_xsr_java_home`
 - `notif_exec_path`
 - `gc_cstcp_command`
 - `gc_csiui_command`
 - the entire Collector section
- The file `pelsetup.ini` must be modified with the values taken from the backed-up `pelsetup.ini` file for:
 - `cstcp_command`
 - `csiui_command`
- If the new product key is different from the previous one, either:
 - Edit the file `pelsetup.ini` and manually replace the value of the key (section `[monitor]`, parameter name `product_key`
OR
 - start Gateway and change the value of the product key in the configuration menu of the GUI.
- When using Secure Relay (formerly XSR), it is strongly advised to update to version 2.6.4 .
- When using Gateway with Integrator, a shared directory must be pointed to by the configuration. If this entry has been filled with a relative path under the previous Gateway home directory it will not be valid after the upgrade. In this case copy the directory to the same place in the new Gateway installation.
- If your scripts use one of the following functions (perl and C) :
 - `ExitXferAfterBegin_C`
 - `ExitXferAfterEnd_C`
 - `ExitRcProtoConn_C`

then you have to refactor the function calls and recompile. This is because the parameter `In_TlsSessionInfo_t` now refers to a modified structure, to allow for both TLS and SSH protocols. See `exitext.h` and `exitxdef.h` files for information about the modified structure definition.

- To migrate from a 32-bit AIX system to a 64-bit system:
 - 1) Export the `xfer.dat` and `xferb.dat` files from the 32-bit AIX:


```
pelexport -outfile xferaix32.dat
```

```
pelexport -outfile xferbaix32.dat -io xferb
```
 - 2) Import the same files into the 64-bit system:


```
pelimport -infile xferaix32.dat
```

```
pelimport -infile xferbaix32.dat -io xferb
```

The location of files xfer.dat and xferb.dat files is taken from the profile environment

Step 2: Copy files to the new environment

1. If required, copy the following to the new environment:
 - Character conversion tables
 - Security tables
 - Statistics dictionary
 - All the files that can be retained (as described in Files that can be retained)

Step 3: Start Gateway V6.17

1. Load the profile: run_time/etc/profile
2. Use the gatestart command to start Gateway.

Automatic startup (Windows)

Under Windows, you can create an automatic startup of Gateway. To do this, you need to create a service for Gateway. Use the following command to create the service:

```
bin\pelinst Service_Name Directory_Path User Password description
```

If you want to delete the service, enter the command:

```
bin\pelinst Service_Name remove
```

Step 4: Import Gateway objects

Delete the default Rule Table

1. Load the profile: run_time/etc/profile
2. Before importing your Gateway objects, delete the newlycreated default Rule Table:

```
peladm delete_ruletable -n DEFAULT -type XFER_CHANGE_STATE
```

Import the objects

Use the following command to import all objects that you exported to the output_file output file:

```
pelbase import -input output_file -site -model -appli -list -profile -user -cgategroup -cgate -ruletable -decisionrule -proxy -proplist -purgemodel -tradepart -xmsctor -sgategroup -sgate -import_pwd_cleartext -error_free
```

Note Use the -error_free parameter when creating the different objects. When this parameter is used, errors are ignored and the process does not stop.

Import TLS Security Profiles

Use the following command to import the Security Profile into the database. In this example, the Security Profile is contained in the file sprof1.sprof:

```
secbase import -if sprofl.sprof -sp -import_pwd_cleartext
```

Import SSH Security Profiles

Use the following command to import the Security Profile into the database. In this example, the Security Profile is contained in the file `sshprof1.sshprof`:

```
secbase import -if sshprof1.sshprof -shp -import_pwd_cleartext
```

Import security objects

Use the `secbase import` command to import security objects that you have exported from the previous version of Gateway:

- Security Profiles (`sprof`), using the `secbase import -sprof` command
- SSH Security Profiles (`sshprof`), using the `secbase import -sshprof` command
- Network Profiles (`nprof`), using the `secbase import -netprof` command
- Certificates, using the `secbase import -cert` command
- Keys, using the `secbase import -key` command

For example, to import the Network Profiles contained in the file `nprof_output_file` into the database, enter:

```
secbase import -input nprof_output_file -netprof
```

Note It is highly recommended that you import the Security Profiles first.

Importing Certificates

Example

```
secbase import_cert -certificate_name "CERT"
```

```
-certificate_file "SopraCA.pem"
```

```
-certificate_file_type BASE64
```

Step 5: upgrade exits

Synchronous user exits are retained. Customized user exits must be recompiled, linked and then regenerated. They can be found in:

- The Windows installation directory: `src\exituser`, `src\exitextc` and `src\exitclnt`
- The UNIX installation directory: `src/exituser`, `src/exitextc` and `src/exitclnt`

Windows

Note You must recompile user exits using MS Visual Studio 2012.

1. Use the script `profile.bat` located in `run_time\etc` in the installation directory to load the environment variables:
`run_time\etc\profile.bat`

2. Execute the following command in the directory where the exit was modified:
nmake /f Makefile

UNIX

1. Use the userprof.sh script found in the installation directory to load the environment variables:
sh userprof.sh
2. Execute the following command:
make -f Makefile

Step 6: Configure protocols and shut down Gateway

1. Start Gateway.
2. In the configuration menu of the GUI, complete the protocol parameters using the information that you recorded during the audit.
3. Shut down Gateway.
4. Edit the file run_time/data/supctx.dat to obtain the same chronology in the new environment. For the following parameters, enter the same values as in the old file:
 - xfer_local_ident
 - xfer_yday
 - xfer_sequence
 - sup_state
 - chk_state
 - nug_last_ident

Step 7: upgrade the Mailbox and virtual Sites

Caution Stop Gateway before upgrading the Mailbox.

Upgrading Mailbox records from an earlier version (V6.16.x) to V6.17

1. Decrypt the Mailbox if it is encrypted:
 - To determine whether or not the Mailbox is encrypted, use the Gateway configuration menu to see whether the Mailbox encryption option value is set to *Database files and transfer mailbox*.
 - To decrypt the Mailbox, deactivate the Mailbox encryption option (value *None* or *Databasefiles* only) in the configuration menu.
2. Load the profile: run_time/etc/profile
3. Execute the command:
 - 6.16.0: pelmon change_pass_phrase -ocpf *password*
 - 6.16.1: pelmon change_pass_phrase -ocpdf dkfile -ocpencf *encfile*
4. upgrade the Mailbox from the previous version to the V6.17 environment:
 - **Caution:** Before you use the pelmig command, you must shut down Gateway.
 - pelmig -im <path6.16.x>/xfer.dat -iv V6.16 -om <path6.17>/xfer.dat -ov V6.17
5. upgrade the extended Mailbox from the previous version (xferb.dat) to the V6.17 environment: Copy xferb.dat from 6.16.x to 6.17, replacing the default xferb.dat
6. If required, re-encrypt the Mailbox in the V6.17 environment, as described in Encrypting Mailbox Records.

7. When using the mirrored Mailbox feature, copy the newly created xfer.dat and xferb.dat files into the mirror subdirectory.

Notes:

- V6.16.x takes either of the following values: V6.16.0, V6.16.1.
- <path6.16.x> indicates the pathname to the file xfer.dat of V6.16.x.
- <path6.17> indicates the pathname to the file xfer.dat of 6.17.

Upgrading virtual sites

Please note that Gateway version 6.17.3 does not currently provide for the upgrade of virtual sites.

vsite03.dat will be recreated automatically.

Encrypting Mailbox Records

If you set the encryption mode to *Database files and transfer mailbox after installation*, all Transfer records are encrypted in the Mailbox. The transferred Mailbox must therefore be encrypted using the pelmon change_pass_phrase command. Be sure to shut down Gateway **before** using this command.

Example: The following command encrypts the newly transferred Mailbox:

- 6.16.0: pelmon change_pass_phrase -ncpf mailbox_password
- 6.16.1: pelmon change_pass_phrase -ncpkf dkfile -ncpencf encfile

This command creates new files with the .new extension and uses the key that was generated to write the encrypted data to those files. If the operation succeeds, the old files are renamed with the extension .old. The new files that will be used by Gateway V6.17 are assigned the extension .dat.

It is recommended that you back up the .old files, and then delete them from your Axway Gateway database directory.

To avoid destroying files with the extension .old, the next pelmon change_pass_phrase command is not executed if these files are still present in the Axway Gateway database directory.

Note If an error occurs during the processing of these files, the password modification operation is immediately canceled and no file is renamed. In this case, you can:

- Correct the problem and start the password modification operation from the beginning
- Delete the files with the extension .new and restore the previous values for the encryption parameters

Step 8: Import Virtual File Directories (VFD)

1. Load the profile: run_time/etc/profile
2. Before importing Virtual File Directories, make sure that:
 - **Gateway is shut down**
 - You have manually deleted the data files in the VFD library (p_runtime_dir/vfd)
3. Use the following command to import the VFDs that you previously exported to the file vfd_output_file:
 - vfdbase import -if vfd_output_file

Note: If a previously mounted path on an RFD (real file directory) is missing, then:
* a warning will be displayed in the console
* in the case where `-i w Y` was used when importing the VFDs, the mounting point will be removed.

4. You can then retrieve the VFD tree structure and VFD items.

Step 9: Restart Gateway

1. Load the profile: `run_time/etc/profile`
2. Use the `gatestart` command to restart Gateway. You have now finished upgrading Gateway.

Links to documentation set for Axway Gateway 6.17.3:

- [Installation](#) -- [User](#) -- [Unix Configuration](#) -- [Upgrade](#) -- [Interoperability](#) -- [Security](#), requires login -- [Release Notes](#)

Update password environment variables

After upgrade, check your files (exits, scripts) for usage of the `p_cs_username` and `p_cs_password` environment variables. Update those files, using the new environment variables.

In the new version, when access management is enabled, the password used by commands is stored encrypted. This concerns the command line utility, exits, and scripts. The environment variables are now the following:

- administration user: `p_cs_username`
- decryption key file pathname: `p_cs_dk_file`
- encrypted password file pathname: `p_cs_encpass_file`

(Storing the cleartext password in the environment variable `p_cs_password` is no longer supported.)

For more information regarding password encryption, see *Security guide* > [Password management](#).

Note If you are migrating the architecture only - for example, migrating from aix-32 to aix-64 - and the source Gateway version is 6.17.x, then you need to upgrade the files pointed by the `p_cs_dk_file` and `p_cs_encpass_file` variables. You can either recreate them using `pelencpass` command, or simply copy them from the Gateway source installation.

Copy parameters

Important: after upgrading Gateway from version 6.16.x to 6.17, perform the following steps:

1. Copy the `cstcp_command` parameter from `uconfdict1.ini` to `pelsetup.ini`. The parameter values should be:
 - UNIX:
`ipelapid.sock -tpt CSTCP`
 - Windows:
`/new /hide %p_home_dir%\bin\ipelsock.exe -tpt CSTCP`
2. Copy the `notif_exec_path` parameter from `pelsetup.def` to `conffile`. The parameter values should be:
 - UNIX:
`$p_home_dir/bin/notif`
 - Windows:
`"/new /hide notif.exe"`

Update Secure Relay

If you are using Secure Relay in conjunction with Gateway V6.17, it is strongly advised to update to Secure Relay Version 2.6.4 at least.

If Gateway was already configured with Secure Relay, then either recreate the following files, or simply copy them

from Gateway version 6.16.x:

- xsrsaltfile.dat
- xsrdkfile.dat
- xsrpwd.dat

If PassPort termination is used, then either recreate the following files, or simply copy them from Gateway version 6.16.x:

- pkisaltfile.dat
- pkidkfile.dat
- kipwd.dat

Updating PassPort configuration 7

use_legacy_settings

If use_legacy_settings was used for PassPort, then:

- For PassPort AM configuration: either recreate the following files, or simply copy them from Gateway version 6.16.x:
 - amloginsalt.dat
 - amlogindk.dat
 - amloginpass.dat
- For PassPort PS configuration: either recreate the following files, or simply copy them from Gateway version 6.16.x:
 - xpploginsalt.dat
 - xpplogindk.dat
 - xpploginpass.dat
- For PassPort PM configuration: either recreate the following files, or simply copy them from Gateway version 6.16.x:
 - tpmloginsalt.dat
 - tpmlogindk.dat
 - tpmloginpass.dat

New passport configuration

Steps to follow if a new passport configuration was used:

- For PassPort AM configuration: copy the following files from Gateway 6.16.x, (or recreate the *.dat files):
 - passport.p12
 - PassportCA.crt
 - ppss.dat

- ppssdk.dat
- ppsssalt.dat
- ppcertsalt.dat
- ppcertdk.dat
- ppcertpass.dat
- For PassPort PS configuration: either recreate the following files, or simply copy them from Gateway version 6.16.x:
 - pploginsalt.dat
 - pplogindk.dat
 - pploginpass.dat
- For PassPort PM configuration: either recreate the following files, or simply copy them from Gateway version 6.16.x:
 - pploginsalt.dat
 - pplogindk.dat
 - pploginpass.dat

Links to documentation set for Axway Gateway 6.17.3:

- [Installation](#) -- [User](#) -- [Unix Configuration](#) -- [Upgrade](#) -- [Interoperability](#) -- [Security](#), requires login -- [Release Notes](#)