Gateway 6.17.3 Installation Guide

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Contents

Gateway 6.17 Installation Guide

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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* (this 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 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

Support services

The Axway Global Support team provides worldwide 24 x 7 support for customers with active support agreements.

Email support@axway.com or visit Axway Support at https://support.axway.com.

Document version: 6 September 2021

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*

Pre-installation tasks 2

Before you begin installing Gateway, you must complete the following pre-installation tasks.

Task	Description
Create or identify an existing user account	Create a user account, or identify an existing user account. You will use this account to install and manage Gateway. **Note:** This step is not strictly necessary on Windows.
Reserve port numbers	Reserve port numbers for file transfers, depending on the protocols you plan to use Gateway exchanges files via mandatory port designations, according to the supporting protocol.
Configure your UNIX platform	For UNIX platforms, consult the *Gateway Configuration Guide*. This document contains platform-specific pre-requirements, configuration details and information about network configuration.

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*

Gateway Installation prerequisites 3

Gateway software prerequisites

SWIFTNet services

Before you can use Gateway to send and receive transfers via SWIFTNet, you must:

1. Install Gateway and SWIFTNet RA 7 (Remote API) on the same machine. This machine must comply with SWIFTNet 7 prerequisites. For the minimum patch level and details of supported platforms, go to www.swift.com and select **Support**.
2. Configure SWIFTNet RA 7 to access SAG 7 (SWIFT Alliance Gateway). RA contains the libraries that are required at runtime.
3. In SAG, when defining a Message Partner to be used with Gateway:
    a. In the **Type** field, select *ClientServer* as connection mode (Gateway uses both Server and Client, for instance to receive acknowledgments in Real Time)
    b. In the **Host Adapter** field, select *Remote API Host Adapter* as message partner.
    c. In the **Default Message Format for Emission** field, select *Strict SNL Format*.
    d. In the **Supported Message Formats** pane, select *Strict SNL Format*. Do **not** use *Relaxed SNL Format*!
4. Ensure that the user has the necessary rights to access RA.
5. Ensure that any DN you use in Gateway is related to a certificate defined with **strict** mode. Gateway always enforces the strict mode for any certificates it uses.

For supported platforms, refer to the *SWIFTNet documentation*.

Perl commands on UNIX

To use Perl commands on UNIX, the following software must be installed:

- Perl version 5.24.0 32-bit build on 32-bit UNIX deliveries or Perl version 5.24.0 64-bit build on 64-bit UNIX deliveries
- C compiler for GIKCMDPL installation

Perl commands on Windows

To use Perl commands on Windows, the following software must be installed:

- Perl version 5.24.0 32-bit build for 32-bit Gateway
- Perl version 5.24.0 64-bit build for 64-bit Gateway

Recompiling user exits on Windows

To recompile user exits on Windows, the following software must be installed:

- Microsoft Visual C++ 2012. To use it, you must add /D_USE_32BIT_TIME_T as a compilation flag in the makefile.

Linux platforms

For Linux platforms, a bc package must be installed.

Gateway RMA server prerequisites

Preparation

- The RMA Server must be defined inside PassPort AM, giving a Component Instance name to the RMA Server and a Shared Secret.
- Prepare the name and password for one or two users:
  - You may define one dedicated user to import ASP or Distribution files, and another user to be used from the User Exit, or
  - You may choose to prepare only one user that is granted both roles.

OS

- Windows 2008 Server r2
- AIX 6.1
- Solaris 10

JVM

Java 1.6 (installed automatically by the Axway Installer)

Database

One of the following:

- Axway Database 4.6
- MySQL Server 5.5 or 5.6
- Oracle 11g

Supporting software

Axway products

- PassPort 4.6

TARGET2 package installation prerequisites

To install the TARGET2 package you require:

- A license key for Axway Gateway that enables InterAct/FileAct protocols and real-time/Store & Forward modes
- An instance of the Gateway server installed with the JMS, SWIFTNet InterAct and FileAct options

The TARGET2 package is compatible with Gateway V6.11.2 Patch 10 and higher.

SWIFTNet HA prerequisites

- A license key that enables SWIFTNet HA
- ODBC configured for Oracle connectivity
- Oracle 11g

FIPS prerequisites

• A license key that enables FIPS mode

• A non-Windows OS (FIPS support is not available on Windows platforms)

AIX prerequisites

The uncompress utility used to install AIX must be able to handle path names that contain more than 100 characters.

This is important for AIX platforms as the default utility is not able to handle this.

Default port numbers

Port name	Port number	Usage
Navigator Server	6390	Gateway NavigatorServer (GUI Server)
RMA	9696	Used by API port Gateway to communicate with RMA module

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*

Gateway kernel prerequisites

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System V message IPC

Axway Gateway processes, created during monitor startup, run in the background.

All Gateway processes communicate with each other using the IPC message system services.

System parameters that address IPC message system resources must be checked and/or tuned depending on:

- The maximum size of the messages exchanged between the monitor processes
- The maximum number of processes Gateway may have started at any time

Sun Solaris 10 uses resource controls instead of tunable parameters - refer to the table at the end of this section for further information.

Interactive tools, such as `peladm, peldsp`, and so on, share a unique message queue multiplexed by pid. For purposes of performance, each background process started by Gateway uses a separate message queue for incoming messages. The maximum number of message queues that Gateway can use at any time (addressed by the MSGMNI system parameter) must be calculated in the following way:

1 + number of Gateway processes

For a complete Axway Gateway installation, this number will not exceed 50, provided that you use default values for configuration parameters.

The following IPC parameter values are suitable for Gateway to run when configured with default values and full file transfer features, provided that the corresponding system resources are available for Gateway use.

IPC parameter values

Parameter name	Minimum value
MSGMAP	100
MSGMAX	32768
MSGMNB	65535
MSGMNI	100
MSGSSZ	8
MSGTQL	100

Parameter name	Minimum value
MSGSEG	16384

When the product is configured for either SNA LU 6.2 or for dynamic file transfer processes, the total number of running Gateway processes may exceed 50. You may then need to adjust the parameter values related to IPC resources accordingly.

The maximum number of message queues that Gateway needs can be deduced from the file `run_time/etc/conffile` since it is the number of times the line of the format `queue <number>` occurs in this file. Consequently, the output of the following simple shell command can be used to obtain the value for the `MSGMNI` system parameters.

```
cat run_time/etc/conffile | grep 'queue ' | wc
```

If Gateway is not the only application that can use IPC message services on your system, you must size the corresponding parameters depending on the requirements of all applications running simultaneously.

The memory pool size corresponding to the parameter values provided above is MSGSSZ*MSGSEG = 128 KB. The following sample configures a memory pool size of MSGSSZ*MSGSEG = 512 KB.

If your UNIX system can support a higher size for this pool, it is recommended to increase this pool size to up to four times the suggested values. For example: MSGSSZ = 16 and MSGSEG = 131072 defines a memory pool of 2 MebiOctets.

Larger IPC parameter values for 200 message queues (200 processes max)

Parameter name	Minimum value
MSGMAP	200
MSGMAX	32768
MSGMNB	65535
MSGMNI	200
MSGSSZ	16
MSGTQL	200
MSGSEG	32768

Gateway can handle any MSGMAX value, either by compressing or segmenting the message data if needed. However, a system parameter value that is too small can affect performance significantly. Using a suitable value (as recommended in the tables above) ensures that all Gateway IPC messages will neither be fragmented nor compressed.

Gateway programs need to know the value of MSGMAX in order to handle IPC messages larger than this value correctly. Since there is no system service under UNIX that enables you to get this information, the environment variable p_smw_msg_max is used to pass the MSGMAX value to Gateway programs. This value is estimated

during Gateway installation and the corresponding shell commands are inserted into the Gateway profile (`run_time/etc/profile` file).

As a result, when the value of MSGMAX is changed, and in order for Gateway to take the new value into account, the Gateway profile must be changed accordingly. Configuring and then restarting the product can achieve this. It is also possible to edit `run_time/etc/profile` and apply the change manually.

The line in the Gateway profile that applies to the MSGMAX system parameter value is of the following format:

```
p_smw_msg_max=16384; export p_smw_msg_max
```

IPC resource controls on Sun Solaris 10

Your system administrator should check, and if necessary modify, the following resource control values using the prctl command. The values used depend on the load on your Gateway.

Resource control	Recommended value
max-msg-qbytes	1 or 2 MB
max-msg-messages	66.6 K

Depending on your system configuration, the system administrator may need to modify the resource controls at zone, project, or process levels.

In addition, your system administrator should set `ulimit open files` to 4096.

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*

Install Gateway 5

To configure Gateway for installation, fill out the installation screens as described below.

If you wish to install Gateway in *cluster* mode, refer to the relevant section: Install Gateway in cluster mode, standalone

Screen	Description	Screen type
Axway Gateway: Modules	Make sure the Axway Gateway items you want to install are selected: • **Extract Package and update environment** • **Access Manager** • **Windows Service** (Windows only)	Common
Axway License Agreement	Read the LICENSE, SUPPORT AND SERVICES AGREEMENT and accept the terms	Common
Axway Installation architecture	Select installation architecture: • **Single** (install on a single machine) • **Cluster** (install on up to 4 machines)	Common
Axway Gateway: Installation directory	Specify the directory where you want to install Gateway. By default, Gateway is installed in a sub-directory of the Axway installation directory. Use the default directory, or specify a new directory. Directory paths cannot contain any spaces.	Common
Axway Gateway Modules	Select the module(s) you want to install. Optional: • **Access Manager** • **Windows Service** (Windows only)	Common
Axway Installation directory	Specify the installation directory for Gateway	Common
Axway Gateway: Configuration	Enter the following information: • **Local site name**: The name that you want to use to refer to your Gateway. • **Key label**: Your key label (if you have one). • **License keys**: Your license key(s). You must enter at least one license key to be able to install and operate Axway Gateway.	Common

Screen	Description	Screen type
	• **Validate Hostname**: true by default. This option will compare the hostname of the machine with the one from the license key • **Navigator server port number**: The number of the port used for the Gateway Navigator server (GUI server). Default: 6390.	
Axway Gateway: Shortcuts	Select whether or not you want to create shortcuts in the Windows **Start** menu. Select the required desktop shortcuts.	Common
Axway Gateway: Access management	Select the access management that you want to use: • **Gateway** • **PassPort AM** (4.3 and below) • **PassPort AM** (from 4.4)	Common
Axway Gateway: PassPort AM (4.3 and below) configuration	If you select PassPort as the access manager, you need to provide the PassPort AM connection parameters: • **Hostname** • **TCP port** • **Use SSL** • **Product Instance** • PassPort AM Domain • **Product Login** • **Product Password**	Option-dependent
Axway Gateway: PassPort AM (4.4 and over) configuration	If you select PassPort as the access manager, you need to provide the PassPort AM connection parameters: • **Hostname** • **Main SSL/TLS Port** • **Shared Secret** • **Product Instance** • **Client Certificate Password** • **Password confirmation**	Option-dependent
Axway Gateway: Gateway Access Manager Configuration	If you select Gateway Access Manager, you need to provide: • **Administrator User** • **Administrator Password** • **Password confirmation**	Option-dependent

Screen	Description	Screen type

	• **Normal mode** (You must manually start and stop Gateway)
	• **Service mode** (Windows automatically starts and stops Gateway)
	
	If you selected **Service mode**, enter values for the Windows service parameters:
	
	• **Service Name**: Internal or real name of the service that the operating system uses. This name is constant no matter what language version of Windows is used—the **Display Name** will change depending on the language version of Windows.
	• **Service Display Name**: Name that Windows uses to display the service in the Windows services list. Display name is the language-specific friendly version of the service name.
	• **Service Description**
	• **Start Type**: Specifies whether service starts automatically when the operating system starts or if you must start it manually (Automatic, Manual or Disabled)
	• **Use another user authentication**: Select *Yes* or *No*. If you select *Yes*, enter the:
	  • **Username**
	  • **Domain**
	  • **Password**: The password value set here will be **ignored** by Gateway, as the way passwords are stored in Gateway has been changed and there is no longer an entry for the password in Gateway.	

Axway Gateway: Startup type		Option dependent
Axway Gateway SWIFTNet HA: Correlation type	Select the correlation type that you want to use: • HA Disabled • Use correlation exit • Use external correlation	Common
Axway Gateway: SWIFTNet HA: Database type (**Use correlation exit** option selected)	Select database type: • Oracle • MySQL	Option-dependent
Axway Gateway SWIFTNet HA: Database options (**Use correlation exit** option selected)	Optional: skip Database configuration • **Verify database configuration**: Must be checked • **Use custom URL** (Oracle 11 only). You can set a custom URL for the database connection. Normally the URL is computed automatically and is similar	Option-dependent

Screen	Description	Screen type
	to this: jdbc.url=jdbc:oracle:thin:@alicia.lab1.lab.ptx.axway.int:1570:SWFRDQ1	
Axway Gateway SWIFTNet HA: MySQL/ Oracle setup (**Use correlation exit** option selected)	If you select **Oracle** Database, you need to provide: • **DSN** (data source name). Enter the system variable (UNIX) or environment variable (Windows) that references the database drivers that you installed. • **SID**: identifies the database instance • **Hostname** • **Port Number**: 1521 (default) • **Connection User** • **Connection Password** • **Data tablespace name** • **Index tablespace name**	Option-dependent
Axway Gateway SWIFTNet HA: MySQL/ Oracle setup (**Use correlation exit** option selected)	If you select the **MySQL** Database, you need to provide: • **DSN** (data source name). Enter the system variable (UNIX) or environment variable (Windows) that references the database drivers that you installed. • **Database name** • **Hostname** • **Port Number**: 3306 (default) • **Connection User** • **Connection Password**	Option-dependent
Axway Gateway SWIFTNet RMA: Server configuration	Select the default ports: • **RMA Control port**: Command line TCP port. Used for stopping or getting the status of the product. • **RMA API Port**: Webservice port number. Used by the RMA Exit inside Gateway to communicate with the RMA server.	Option dependent
Axway Gateway SWIFTNet RMA: Passport AM Configuration	You need to provide: • **Main SSL/TLS Port** • **Shared secret**: Enter the database connection parameters. • **Product Instance**: Enter the Component Instance used to identify RMA. • **Passport AM Domain** • **RMA Login Name**	Option-dependent

Screen	Description	Screen type
	• **RMA Password**	

Axway Gateway SWIFTNet RMA: Service attributes	• **Normal mode** (You must manually start and stop the application)
	• **Service mode** (Windows automatically starts and stops the application)
	If you selected **Service mode**, enter values for the Windows service parameters:
	• **Service Name**: Internal or real name of the service that the operating system uses. This name is constant no matter what language version of Windows is used—the Display Name will change depending on the language version of Windows.
	• **Service Display Name**: Name that Windows uses to display the service in the Windows services list. Display name is the language-specific friendly version of the service name.
	• **Service Description**
	• **Start Type**: Specifies whether the service starts automatically when the operating system starts, or whether you must start it manually (*Automatic*, *Manual* or *Disabled*).
	• **Use another user authentication**: Yes or No. If you select ***Yes***, enter the:
	  • **Username**
	  • **Domain**
	  • **Password** The password value set here will be ignored by Gateway as the way passwords are stored in Gateway has been changed and there is no longer an entry for the password in Gateway
		Option-dependent

Axway Gateway RMA Application: Database type	Select the database type • **Oracle** • **MySQL**	Option-dependent
Axway Gateway SWIFTNet RMA Application: Database options	• **Verify database configuration**: must be checked • **Use custom URL** (Oracle only). You can set a custom URL for the database connection. Normally the URL is computed automatically and is similar to this: jdbc.url=jdbc:oracle:thin:@alicia.lab1.lab.ptx.axway.int:1570:SWFRDQ1	Option-dependent
Axway Gateway RMA	If you select **Oracle** Database, you need to provide the connection	Option-

Screen	Description	Screen type
	parameters	
Application: MySQL/ Oracle setup	• **SID**: identifies the database instance • **Hostname** • **Port Number**: 1521 (default) • **Connection User** • **Connection Password** • **Data tablespace name** • **Index tablespace name** If you select **MySQL** Database, you need to provide the connection parameters.	dependent
Axway Gateway RMA Application: MySQL/ Oracle setup	• **Database name** • **Hostname** • **Port Number**: 3306 (default) • **Connection User** • Connection Password	Option-dependent
Axway Ready to Install	Click **Install** to install the listed components.	Common

Notes:

- For cluster installation you need to share the shared directory specified in the installation process with all the additional nodes (up to 3). On the additional nodes the mounting point to the shared directory must be identical to the shared directory path from the main node.
- For security reasons you must restrict the access to the folder `%GatewayInstallDir%/run_time/agent/data/keys/` at operating system level.

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*

Install Gateway in cluster mode, standalone

This section explains how to perform a standalone installation of Gateway in cluster mode. The tables below describe two sequences of screens:

- one to install the *First node*
- the next to install *Additional nodes*

First node

Screen	Description	Screen type
Axway Welcome	Welcome to Axway Installer	Common
Axway License Agreement	Read the LICENSE, SUPPORT AND SERVICES AGREEMENT and accept the terms	Common
Axway Installation architecture	Select the **Cluster** installation architecture: • Single (install on a single machine) • **> Cluster** (install on up to 4 machines)	Common
Axway Cluster	Select: • **> First Node** • Additional Node	Option-dependent
Axway Gateway: Installation directory	• Specify the shared directory to store the data shared between the various cluster nodes. By default: Axway_Shared. • Specify the directory where you want to install Gateway. By default, Gateway is installed in a sub-directory of the Axway installation directory. Directory paths cannot contain any spaces.	Common
Axway Gateway Modules	Select the module(s) you want to install. Optional: • **Access Manager** • **Windows Service** (Windows only)	Common
Axway Installation directory	Select the installation directory for Gateway and the directory that will store shared data	Common
Axway Gateway: Configuration	Enter the following information: • **Local site name**: The name that you want to use to refer to your Gateway. • **Key label**: Your key label (if you have one). • **License keys**: Your license key(s). You must enter at least one license key to be able to install and operate Axway Gateway. Here you must enter the license key for all the machines where Gateway Additional Nodes will be installed • **Validate Hostname**: *true* by default. This option will compare the hostname of the machine with the one from the license key • **Navigator server port number**: The number of the port used for the Gateway Navigator server (GUI server). Default: 6390.	Common
Axway Gateway: Access management	Select the access management that you want to use: • **Gateway**	Option-dependent

Screen	Description	Screen type
	• **PassPort AM** (4.3 and below) • **PassPort AM** (from 4.4) If you select *PassPort* as the access manager, you need to provide the PassPort AM connection parameters: • Hostname • TCP port • Use SSL • Product Instance • PassPort AM Domain • Product Login • Product Password	
Axway Gateway: PassPort AM (**4.3** and below) configuration		Option-dependent
Axway Gateway: PassPort AM (**4.4** and over) configuration	If you select PassPort as the access manager, you need to provide the PassPort AM connection parameters: • **Hostname** • **Main SSL/TLS Port** • **Shared Secret** • **Product Instance** • **Client Certificate Password** • **Password confirmation**	Option-dependent
Axway Gateway: Gateway Access Manager Configuration	If you select Gateway Access Manager, you need to provide: • **Administrator User** • **Administrator Password** • **Password confirmation**	Option-dependent
Axway Gateway: Startup type	• **Normal mode** (You must manually start and stop Gateway) • **Service mode** (Windows automatically starts and stops Gateway) If you selected **Service mode**, enter values for the Windows service parameters: • **Service Name**: Internal or real name of the service that the operating system uses. This name is constant no matter what language version of Windows is used—the **Display Name** will change depending on the language version of Windows. • **Service Display Name**: Name that Windows uses to display the service in the Windows services list. Display name is the language-specific friendly version of the service name.	Option dependent

Screen	Description	Screen type

	• **Service Description**
	• **Start Type**: Specifies whether service starts automatically when the operating system starts or if you must start it manually (Automatic, Manual or Disabled)
	• **Use another user authentication**: Select *Yes* or *No*. If you select *Yes*, enter the:
	  • **Username**
	  • **Domain**
	  • **Password**: The password value set here will be **ignored** by Gateway, as the way passwords are stored in Gateway has been changed and there is no longer an entry for the password in Gateway.	

Axway Ready to Install	Click **Install** to install the listed components.	Common

Gateway is successfully installed on the first node.

Now do the following:

1. Go to the shared directory (by default, Axway_Shared)
2. Share it with the users from all additional nodes, respecting the following constraints:
   - the same user must be used on all machines
   - the shared directory must have the same path on all machines

The static configuration is shared between all nodes. The shared directory contains the following Gateway sub-directories:

- run_time/audit
- run_time/data
- run_time/etc
- run_time/tmp
- run_time/vfd

Additional nodes

Run setup.exe on each additional node, and fill up the screens as described in the table below.

Screen	Description	Screen type
Axway Welcome	Welcome to Axway Installer	Common
Axway License Agreement	Read the LICENSE, SUPPORT AND SERVICES AGREEMENT and accept the terms	Common
Axway Installation architecture	Select the **Cluster** installation architecture:	Common

Screen	Description	Screen type
	• Single (install on a single machine) • **> Cluster** (install on up to 4 machines)	
Axway Cluster	Select: • First Node • **> Additional Node**	Option-dependent
Axway Gateway: Installation directories	• Specify the shared directory where the shared data between the various cluster nodes will be stored. • Specify the directory where you want to install Gateway. For the Additional Node, the path for the installation is already filled out. Directory paths cannot contain any spaces.	Option-dependent
Axway Gateway Modules	Select the module(s) you want to install. Optional: • **Access Manager** • **Windows Service** (Windows only)	Common
Axway Ready to Install	Click **Install** to install the listed components.	Common

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*

Post-installation 6

After installing Gateway you can:

- *Integrate PassPort*. This is mandatory if you chose to use PassPort with Gateway.
- *Start or stop the server.* In order to configure and work with Gateway.
- *Install Gateway Navigator*: Navigator allows you to control your Gateway servers remotely through a management UI.

Integrating PassPort

About

After installing Gateway and PassPort, but before starting the Gateway server for the first time:

- Set up a user as a Gateway administrator in PassPort
- Log in as the Gateway administrator

Prerequisites

- Start PassPort.
- Connect to PassPort via a browser by entering the PassPort URL, which has the format: `https://PassPortServerHost:PassPortServerPort/ui`
- The `PassPortServerHost` and `PassPortServerPort` are the same values defined during installation.
- An SMTP server has been set up in PassPort

Note: Contact the PassPort administrator if you have problems.

1. Log in to the PassPort user interface. Select the domain **System:Administration**. The initial username and password for the default PassPort administrative user are **system** and **System01**. For security reasons, it is recommended to change this password as soon as possible.
2. Select **Access > Components** in the user interface to open the AM components area.
3. Click the **Import CSD** icon to import the Gateway CSD file. The file, named `CSDGateway.xml`, must be accessible on your network. The file is in the directory where you installed Gateway at `[Gateway installation directory]\extras\passport`.
   Note: the default domain is **Synchrony** and it contains the default **Users** organization.
4. On the same menu, select **Access** > **Components** > **Gateway**. An instance name **default** has been imported. This may not match the instance name that the Gateway assigned itself during installation. You must make sure PassPort and Gateway are synchronized with the instance name. For example, create a **gatewayInstance** instance and make sure that the Gateway used the same value as Passport.
5. Add the domain **Synchrony** to the active **gatewayInstance**.
6. Select **Access > Users and organizations**. Select the **Users** organization under the **Synchrony** domain and add a user. For example, **Admin**. Use a valid e-mail address because the initial user password is

sent to this address. Before clicking **OK** to add the user, set the status to **active**. PassPort then sends an e-mail message informing the user of the initial password.
7. Select **Access > Authorization > Predefined roles** to display a list of roles. These roles are system defaults or have been imported from CSD files.
8. Select the **Admin** role of the Gateway component, click the **Users** tab and click **Add users to role** to assign the user added to this predefined role.

If RMA is installed:

1. Import into PassPort AM the Roles defined inside the newly installed file: {ROOTFOLDER of RMA SERVER}/conf/passport/rma_csd.xml. For detailed information, refer to *Gateway User Guide > Importing required data into PassPort*.
2. Inside PassPort AM, as administrator, grant RMA roles to the previously defined user[s].

Starting and stopping the server

This section explains how to start and stop after Gateway installation and how to check which Gateway processes are running. The procedures to follow depend on your operating system:

- *Windows*
- *UNIX*

Controlling Gateway on Windows

After installation, you can either start Gateway manually, or let it to start automatically on system startup if set to do so. To start Gateway automatically, you must have installed Gateway as a system service.

To start Gateway, enter the command: gatestart

To stop Gateway, enter the command: gatestop

Starting and stopping Gateway manually

To start and stop Gateway manually, use the commands available in the Windows **Start** menu or by command line.

Starting Gateway

To start Gateway, from the Windows **Start** menu, click the **Start Gateway** icon:

You can also start Gateway by command line. Open **Programs > Axway Software > Axway [ProjectName] > Gateway > Command Prompt**

Or, open a command prompt and execute the shell script profile.bat (located by default in `<Gateway installation directory>/run_time/etc/profile.bat`).

To start Gateway, enter the command:`gatestart`

Stopping Gateway

To stop Gateway from the Windows **Start** menu, click the **Stop Gateway** icon:

Programs > Axway Software > Axway [ProjectName] > Gateway > Stop Gateway

You can stop Gateway by command line. Open **Programs > Axway Software > Axway [ProjectName] > Gateway > Command Prompt**

Or, open a command prompt and execute the shell script profile.bat (located by default in <`Gateway installation directory>/run_time/etc/profile.bat`).

To stop Gateway, enter the command: `gatestop`

Note Stop (or disconnect) Gateway Navigator **before** you stop the Gateway server.

Gateway as a system service

Install Gateway as a system service if you want:

- To start Gateway automatically on system startup
- Gateway to run across sessions

Note: If Gateway has been started as system service, it must be stopped either via the Services option in the Control Panel or using the **`net stop`** command.

Installing Gateway as a system service

If you did not install Gateway as a system service during the installation, proceed as follows:

To install Gateway as a system service, you must have administrator rights and carry out the following steps:

1. From the Windows Start menu, select:
   Programs > Axway Software > Axway [ProjectName] > Gateway > Command Prompt
   to open an MS-DOS command prompt session.
2. Enter **`pelinst service-name dir-path user-name password`**

where:

- `service-name` is the system service name (mandatory)
- `dir-path` is the Gateway base directory (mandatory)
- `user-name` is the user account under which the service runs
- `password` is the associated account password

For example:

```
pelinst Axway Gateway <Gateway installation directory> .\administrator secret
```

1. Specify the user name in the format `domain\username` or `.\username`.(optional)
2. Specify the password.

If you choose not to specify a user name and password, the default `SYSTEM` is used. A message indicates whether the service is successfully created or an error occurred. If an error occurs, refer to Microsoft Windows documentation for details.

Configuring Gateway system service

As with any system service, you can configure the Gateway system service via the Services option in the Control Panel.

1. From the Windows Start menu, select Settings.
2. Select the Control Panel program folder.
3. Select Administrative Tools.
4. Select Services.
5. Select the <service name> service (for example **`Axway Gateway`**) and select Start or Properties.

You can then define the startup type and the account information under which Gateway will run.

If the startup type is:

- Automatic: The service starts automatically on system startup
- Manual: You must use a Windows command to start and stop the service.
  For example:
  net start <Gateway service name>
  net stop <Gateway service name>

Refer to the Microsoft Windows documentation for details.

RemovingGateway from system service

The standard uninstall procedure provided by the Axway Installer does not remove any system services installed in this way.

To remove Gateway from the system service base:

1. Stop Gateway if it is running.
2. From the Windows Start menu, select:
   Programs > Axway Software > Axway [ProjectName] > Gateway > Command Prompt
   to open an MS-DOS command prompt session.
3. Enter **`pelinst service-name remove`**

A message indicates whether the service was successfully removed or whether an error occurred. If an error occurs, refer to Microsoft Windows documentation for details.

Checking Gateway processes on Windows

Gateway is composed of a group of related executable programs.

The programs activated at startup depend on the options chosen in the configuration menu. After startup, you can view the list of programs that are activated.

From the Windows Start menu, select:

Programs > Axway Software > Axway [ProjectName] > Gateway > Process List

You can also run the **gatestatus** command. For more information refer to the *Gateway User Guide*.

Controlling Gateway on UNIX

Before using Gateway program files, set the product environment for your UNIX session.

Execute the Shell script **profile**, located by default in:

$. <Gateway installation directory>/run_time/etc/profile

The **gatestart** and **gatestop** utilities enable you to start and stop Gateway in the UNIX environment.

Starting Gateway

To start Gateway, enter the command:

```
$ gatestart
```

Stopping Gateway

To stop Gateway, enter the command:

```
$ gatestop
```

Checking Gateway processes on UNIX

Gateway is composed of a group of related executable programs. The programs activated at startup depend on the options chosen in the configuration menu.

After entering the command **gatestart** or **gatestop**, you can check that Gateway processes have correctly started or stopped.

To view the list of programs that are activated, enter the command:

```
$ ps –e | grep -E " p_| q_| h_| notif| ipelapi"
```

When Gateway is started, the **ps** (or Process List) command must show a supervisor process (p_sup) and a system process (p_sys).

Other processes are launched depending on the networks, protocol resources used and product options (for example, Axway Sentinel).

Starting and stopping the RMA Server

This section explains how to use the RMA housekeeping scripts and how to purge log, audit and trace files if they become too large.

About RMA housekeeping scripts

All the RMA scripts are located in the <GATEWAY_INSTALL_DIR>/bin directory.

These scripts include the housekeeping scripts that enable you to start, stop and check the current status of the RMA Server. The housekeeping scripts do not require any parameters.

Running the RMA housekeeping scripts

1. Go to the <GATEWAY_INSTALL_DIR>/bin directory.
2. Run the script for your OS:

Task	Command	
	on Windows	on UNIX
Start RMA Server	rmaStart.bat	rmaStart.sh
Stop RMA Server	rmaStop.bat	rmaStop.sh
Check status of RMA Server	rmaStatus.bat	rmaStatus.sh

After starting the RMA Server you can check that it is fully booted by consulting the server rma.log file, located in the <FEX_RMA_INSTALL_DIR>/logs directory.

Installing (or removing) the RMA Server Windows service

To install the RMA Server Windows service, run the script <InstallationDir>/RMAServer/service/installRMA.bat.

To remove the RMA Server Windows service, run the script <InstallationDir>/RMAServer/service/removeRMA.bat.

Starting and stopping the RMA Server in Windows service mode

If, during installation, FEX RMA was installed as a Windows service, you can start and stop the RMA Server as follows.

Starting the RMA Server

1. From the Windows **Start** menu , select **Settings > Control Panel > Administrative Tools > Services**. Windows displays the *Services* window.
2. Scroll down the Services list and right-click the FEX RMA service.
3. From the context menu, select **Start**.

Alternatively, run the script <InstallationDir>/RMAServer/service/startRMA.bat.

Stopping the RMA Server

1. From the Windows **Start** menu , select **Settings > Control Panel > Administrative Tools > Services**. Windows displays the *Services* window.
2. Scroll down the Services list and right-click the FEX RMA service.
3. From the context menu, select **Stop**.

Alternatively, run the script <InstallationDir>/RMAServer/service/stopRMA.bat.

Purging log, audit and trace files

Log, audit and trace files can become quite large after time. You can delete the following files if you no longer

need the information:

Type of file	File name	Location
RMA Server log	rma.log	<GATEWAY_INSTALL_DIR>/logs
RMA command line log	rma_cmdline.log	<GATEWAY_INSTALL_DIR>/logs
Audit	audit.log	<GATEWAY_INSTALL_DIR>/logs

Using Gateway

Refer to the *Gateway User Guide* for information about configuring and using Gateway.

Related topics

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*

Gateway Navigator 7

Gateway Navigator is a remote GUI that you can use to access Axway Gateway. It only runs on Windows platforms.

Note You must install the same version of Gateway Navigator (including the Service Pack level) as Axway Gateway.

Installing Gateway Navigator

To configure Gateway Navigator for installation, complete the following procedure:

Screen	Description
Gateway Navigator: Modules	Make sure the Gateway Navigator items you want to install are selected: • **Gateway Navigator** • **Extract Package and update environment** • **Shortcut**
Gateway Navigator: Installation directory	Specify the directory where you want to install Gateway Navigator. By default, Gateway Navigator is installed in a sub-directory of the Axway installation directory. Use the default directory, or specify a new directory. Directory paths cannot contain any spaces.
Gateway Navigator: Shortcuts	Select whether or not you want to create a shortcut in the Windows **Start** menu. To create desktop shortcuts, select **Start Navigator** and/or **Signature Etebac 5**.

Navigator Post-installation

This section describes how to start and stop Gateway Navigator after installation. It also explains how to configure Gateway Navigator the first time you use it.

Starting Gateway Navigator

To start Gateway Navigator, from the Windows **Start** menu, select:

Programs > Axway Software > Axway [ProjectName] > Gateway Navigator > Start Navigator

Configuring Gateway Navigator

The first time you use Gateway Navigator, you need to configure it to communicate with your Axway Gateway.

1. In the left-hand frame of the GUI, right-click **Session**.
2. Select **New Server...**

The *New Server* window appears.

3. In the **TCP/IP** tab, fill-in the following parameters.

Field	Value
Server alias	The name you want to use to refer to your Axway Gateway.
Server address	The IP address of the machine that hosts Axway Gateway.
Port number	The port number to use to communicate with Axway Gateway. Default = 6390.

4. Click OK.

Connecting to the Axway Gateway server

Each time you use Gateway Navigator, you need to log in to connect to your Axway Gateway.

1. In the right-hand frame of the GUI, double-click the Gateway server to which you want to connect.

The Gateway Navigator window appears.

2. If required, enter your password.
3. Click **Connection**.

Gateway Navigator connects to the Axway Gateway server. You can now access all available services.

Stopping Gateway Navigator

To stop Gateway Navigator, go to the **File** menu and select **Exit**.

Note: It is recommended to stop (or disconnect) Gateway Navigator **before** you stop the Axway Gateway server.

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*

Installing the TARGET2 package to Gateway

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TARGET2 is the European Real Time Gross Settlement (RTGS) system which, since November 2007, replaces the TARGET system. TARGET2 is based on the Single Shared Platform (SSP), developed by Banca d'Italia, Banque de France, and Deutsche Bundesbank. These three banks operate the system on behalf of the Eurosystem. TARGET2 participants access the SSP using the SWIFT messaging services: FIN, FIN Copy, InterAct, FileAct and Browse.

Locating the package

The files you require to configure Axway Gateway for TARGET2 are contained in the Axway Financial Exchange TARGET2 package. This package is included in the FEX installation package. Alternatively you can request a copy of the package from your Axway representative.

Packages are available for the following platforms:

- AIX
- SUN
- WIN 32bits

Prerequisites

To install the TARGET2 package you require:

- A license key for Axway Gateway that enables InterAct/FileAct protocols and real-time/Store & Forward modes
- An instance of the Gateway server installed with the JMS, SWIFTNet InterAct and FileAct options
- That the TARGET2 package is compatible with Gateway V6.11.2 Patch 10 and higher.

Installing the package

1. From the installation package, copy the compressed file contained in the directory: \Gateway\run_time\qt2\qt2_<version>_<OS>\Programs
2. On the machine that supports Gateway, uncompress the file to the Gateway installation directory. If you prefer, you can unpack the package in another location without additional configuration.
3. In the installation package, go to the directory: \Software\QT2\qt2_<version>_<OS>\Patches and install the patch for your platform.

Directory structure

After you unpack the package, the qt2 folder should contain the following sub-folders and files:

Subfolder or file	Description
/objExports	• Scripts for creating the required Target2 objects in Gateway • cl_delobjCRISTAL (contains command line to delete objects) • cl_objCRISTAL (contains command line to create objects)
/patch	This folder is empty before installing a patch or a service pack. While installing a patch it may contain all files that relate to the delivered patch, as well as a subdirectory backup: • backup • log.txt • archive: xxx-QT2-103-SP-2.zip • signature: xxx-QT2-103-SP-2.md5 • text: xxx-QT2-103-SP-2.txt
/scripts	• tg2msg (processing scripts for the SSP messages) • tg2file (processing scripts for SSP messages) • ssp_pull_s (SSP simulation script)
/tg2	xslt transformation sheets for the XML message processing: • tg2code.xsl • tg2copy.xsl • tg2retry.xsl • tg2strip.xsl
/tmp	• sample.trace • Repository for temporary files created during QT2 processing • Location of the trace files (Location of generated trace files)
/tools	Binaries and libraries (aupdate, Xalan, gzip, base64…)
/xml	Sample XML payloads used in the Simulation Mode
aupver	Text file containing the version information
config	QT2 configuration file

Attributing UNIX execution rights

On UNIX platforms, you must give execution rights to the QT2 folder and its contents so that the scripts can be executed. Run the following command:

chmod -Rf u+x *…

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*

Upgrading from Gateway 6.16.x

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For information about how to upgrade from Gateway 6.16.x to Gateway 6.17.3, refer to the *Gateway 6.17 Upgrade Guide*.

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*

Upgrading from earlier versions

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Upgrading from Gateway 6.16.0 to 6.16.1

Apply an upgrade pack from 6.16.0 to 6.16.1.

Upgrading from 6.15.0 to 6.16.0

Upgrade procedure

To update Gateway from **6.15.0** to **6.16.0**:

1. Install `Gateway_6.16.0_UP1-from-6.15.0_allOS.jar` upgrade pack.
   You use the same procedure as for installing a patch or service pack.

For versions older than **6.14.1**:

1. First upgrade to **6.14.1**.
2. Then successively apply the upgrade packs to **6.15.0** and **6.16.0** respectively.

Upgrading from Gateway 6.14.1 to 6.15.0

Upgrade procedure

To update Gateway from **6.14.1** to **6.15.0**:

1. Install Gateway_6.14.1_UP1-from-6.14.1_allOS.jar upgrade pack.
   You use the same procedure as for installing a patch or service pack.

For versions **older than 6.14.1**, you will have to:

1. upgrade to 6.14.1.
2. Then apply the upgrade pack to 6.15.

Upgrading from versions before 6.14.1

Refer to the Installation guides for the earlier versions of Gateway.

Links to documentation set for Axway Gateway 6.17.3:

- *Installation* -- *User* -- *Unix Configuration* -- *Upgrade* -- *Interoperability* -- *Security*, requires login -- *Release Notes*