Configuring the Web Service Runtime for ATTP
SAP Backend Systems on the SAP Pharma Network
## Typographic Conventions

<table>
<thead>
<tr>
<th>Type Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Example</strong></td>
<td>Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.</td>
</tr>
<tr>
<td><strong>Example</strong></td>
<td>Emphasized words or expressions.</td>
</tr>
<tr>
<td><strong>EXAMPLE</strong></td>
<td>Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.</td>
</tr>
<tr>
<td><strong>Example</strong></td>
<td>Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.</td>
</tr>
<tr>
<td><strong>Example</strong></td>
<td>Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.</td>
</tr>
<tr>
<td><code>&lt;Example&gt;</code></td>
<td>Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.</td>
</tr>
<tr>
<td><strong>EXAMPLE</strong></td>
<td>Keys on the keyboard, for example, F2 or ENTER.</td>
</tr>
</tbody>
</table>
Document History

<table>
<thead>
<tr>
<th>Version</th>
<th>Status</th>
<th>Date</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Final</td>
<td>2016-08-18</td>
<td>First Release</td>
</tr>
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</table>
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1 About This Document

1.1 Purpose and Scope

This document describes the Technical Setup of the Web Service Runtime for direct ATTP integrations to the SAP Pharma Network.

This document is intended for SAP Pharma Network participants leveraging the Web Service Runtime. This document does not cover the XI runtime.

1.2 Target Audience

This document is for members of the technical implementation team involved in integration and onboarding to the SAP Pharma Network, including:
- Implementation and integration teams
- System Administrators
- Information Security Officers
- Network Administrators
- BASIS Administrators

1.3 Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Onboarding</td>
<td></td>
<td>Process of connecting a participant to the SAP Pharma Network.</td>
</tr>
<tr>
<td>Participant</td>
<td></td>
<td>Company or organization that onboards to the SAP Pharma Network between a participant system and the SAP Pharma Network.</td>
</tr>
</tbody>
</table>
1.4 Related Information

- Introduction to the SAP Pharma Network
- SAP Pharma Network Onboarding Guide
- SAP Pharma Network Configuration Guides for SAP Backend Systems

1.5 Important SAP Notes

Recommendation

Make sure that you read the SAP Notes before you start implementing the software. The SAP Notes contain the latest information about the installation as well as corrections to the installation information, see SAP ONE Support Launchpad: https://launchpad.support.sap.com/ and search for the SAP Note Number in the Knowledge Base section of the Launchpad.

<table>
<thead>
<tr>
<th>SAP Note Number</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1043195</td>
<td>Configuration of Web service runtime</td>
<td>Setting up or checking the technical configuration of the Web service runtime environment.</td>
</tr>
</tbody>
</table>
2 Introduction

SAP Web AS customers and XI customers can use the Web services runtime to call Web services, that is, SAP Pharma Network endpoints, over the Internet for simple services. You must then configure the receiver locally in the client system (customer system).

Note

You must create a logical port for client proxies that use the Web Service Runtime. You create this port in the system in which you want to call the client proxy. Using the logical port, you can define the receiver data and the settings for error handling. You can also create multiple logical ports for a client proxy, and then select one of them dynamically. As a prerequisite, the Technical Setup of the Web Service Runtime must be completed.

Caution

The technical setup can be executed in automatic or manual manner. These are mutually exclusive. In most cases, the automatic setup is simpler.
3  Overview of the Web Service Runtime

The Web services runtime is a service layer of SAP_BASIS. It depends on other components including:

- User management
- Role management
- RFC
- bgRFC
- ICM
- ICF

You configure the Web Services runtime using settings, parameters and options of these components as well as using settings, parameters and options of the Web Service. One of the main settings is the service destination, which is needed for every ERP client.

These tasks are created and started in the standard ERP Administrative client 000. This is because the system feature AUTOABAP starts and runs in client 000 at system start. The AUTOABAP is a central process that starts other processes as child processes, including the task watcher of the Web Service Runtime, and the main process of the background RFC (bgRFC), the scheduler.

To simplify the task of entering the technical settings, SAP provide a procedure for an automated set up. This is called by report SRT_ADMIN. You can also enter the settings manually.

⚠️ Caution

Manual set up is required if the user name of the service user differs from the standard value, or if the user set up is not permitted in a specific system (Central user maintenance).

3.1  Automated Setup

Some parts of the technical setup have been automated, including:

- Creation of the service user
- Creation of the service destination
- Registration of the inbound destination at the bgRFC
- Registration/activation of the check class for the bgRFC scheduler at bgRFC

The SRT_ADMIN report provides this procedure when the flag “Automatic Setup” in block “Technical Setup for System” is set, and the report run is started (F8). To rapidly resolve inconsistencies, a reset is available which includes user and destination deletion. The SRT_ADMIN report provides the functions described below. Please execute the Technical Setup as shown below in “Executing the Automatic Setup”.
3.1.1 Automatic Setup

Automatic setup includes:

- Automated creation of service user and role assignment
- Automated creation of service destination
- Service user assignment
- Creation and registration of bgRFC inbound destination
- Assignment of scheduler destination and check class registration

For systems that have customer specific password rules, the password for the service user to be created can be inserted before the user is created, if the flag “Accept password for user creation” is set. The password is then assigned to the new user SAP_WSRT. Otherwise, the password is generated by the standard rules with the standard function. Its value is stored in the secure area (from RFC) and can never be read or displayed at a UI.

If the flag “BydLandscape” is available and set during the report run, the service user is NOT created by the procedure. It uses the user name SAP_WSRT at the service destination and the password is read from the ByD User management (IAM).

3.2 Executing Automatic Setup

1. Execute report SRT_ADMIN
2. Select “Run Technical Setup”
3. Execute
## 4 Manual Setup

You can configure each setting manually as outlined in the sections which follow.

### 4.1 Registering soastage:service_destination_name

The RFC destination has the following technical attributes:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name (header information)</td>
<td>WS_SRV_SAP_WSRT&lt;client&gt;</td>
<td>For older releases and installations it might be named: WS_SERVICE_&lt;guid&gt;-SRV</td>
</tr>
<tr>
<td>Connection type (header information)</td>
<td>“3”</td>
<td></td>
</tr>
<tr>
<td>Client (Logon and Security)</td>
<td>&lt;local client number&gt;</td>
<td></td>
</tr>
<tr>
<td>User (Logon and Security)</td>
<td>SAP_WSRT</td>
<td>For older releases or installations it might be &lt;guid&gt;</td>
</tr>
<tr>
<td>Password (Logon and Security)</td>
<td>&lt;&lt;Username&gt;&gt;, &lt;&lt;Password&gt;&gt;</td>
<td>Provided by BASIS Administrator</td>
</tr>
<tr>
<td>Unicode (Unicode)</td>
<td>&lt;system dependent&gt;</td>
<td>If the system is flagged as a Unicode system, the destination is flagged as a Unicode destination.</td>
</tr>
<tr>
<td>Protocol (special Options)</td>
<td>Classic RFC protocol</td>
<td></td>
</tr>
</tbody>
</table>
The service destination for client 000 in NetWeaver 7.40 as shown in transaction SM59 follows:

```plaintext
4.2 Registering soastage:bgRFC_inbound_destination

4.2.1 bgRFC Inbound Destination

The Web service runtime uses the background RFC as a scheduler for processing web service messages. The bgRFC requires some settings to connect and register the web service runtime at the scheduling service. These include:

- bgRFC inbound destination
- Scheduler destination for registration of the web service runtime check class

1  Note

In Release 7.* only one inbound destination is required for each system. In release 8.* for any client/tenant an inbound destination is required.

The bgRFC inbound destination must be registered with different prefixes which are used to create bgRFC queue names. These prefixes are:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Builds names for</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERSC_</td>
<td>Consumer queues for external persistent sequences</td>
</tr>
</tbody>
</table>
To register the name of the bgRFC inbound destination and its prefix set ups, use transaction SBGRFCCONF.

After the inbound destination and its prefixes have been registered at the bgRFC, the name of the inbound destination must be registered in the web service runtime properties. Run report SRT_ADMIN, and enter the name in the “Name of inbound destination” field. Set the “Register name of inbound destination” switch, and execute the report (F8).

To prevent restart or deletion of units of the web service runtime at the bgRFC Monitor and avoid inconsistencies between web service sequence handling and bgRFC queue/unit handling, register the name of the inbound destination at the bgRFC as a scheduler destination.

Once added, use the class name “CL_SOAP_QUEUE_BGRFC_MON_CB” as a check class for the scheduler destination, and set this name as “active”.

These settings for inbound destination and check class registration are processed automatically if you use the automated set up procedure of report SRT_ADMIN.

### 4.2.2 bgRFC Supervisor Destination

If the bgRFC has not been used before (the web service runtime is just one participant), you must set up the bgRFC supervisor destination.

This is necessary even if the web service runtime technical set up has been performed manually. To maintain the supervisor destination, use transaction SBGRFCCONF in tab “Define Supervisor Dest.” It requires a name and a user with assignment to role SAP_BC_BGRFC_SUPERVISOR. An automated set up is provided, where the user and the destination is created in the background.

**Related Information**

See relevant SAP Notes, especially Note: 1043195.
5  Important Disclaimers and Legal Information

5.1  Coding Samples

Any software coding and/or code lines/strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended to better explain and visualize the syntax and phrasing rules of certain coding. SAP does not warrant the correctness and completeness of the Code given herein, and SAP shall not be liable for errors or damages caused by the usage of the Code, unless damages were caused by SAP intentionally or by SAP's gross negligence.

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