SAP® Process Object Builder 2.0 Feature Pack 01
## 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><strong>&lt;Example&gt;</strong></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, <code>F2</code> or <code>ENTER</code>.</td>
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## Document History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>2017-02-06</td>
<td>Initial Version</td>
</tr>
</tbody>
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1 Getting Started

1.1 About this Document

Purpose

This document is a single source of information for the implementation of SAP Process Object Builder 2.0 FP01. It contains implementation information as well as security and operation information, and is divided into the following main sections:

- Introduction with references to related documents and relevant SAP Notes
- System Landscape
- Installation Information
- Security Information
- Operation Information

Note

This version of the Administrator’s Guide refers to the installation of SAP® Process Object Builder 2.0 Feature Pack 01. On SAP Service Marketplace the product is registered as Process Object Layer.

You can find the most current version of this document as well as the versions for earlier releases on SAP Service Marketplace at http://service.sap.com/instguides or http://service.sap.com/securityguides (Industry Solutions -> Industry Solution Guides -> SAP for Banking -> Component Guides). We strongly recommend that you use the document available there. The guide will be regularly updated.

1.2 Related Information

1.2.1 Planning Information

For more information about planning topics not covered in this guide, see the following content on SAP Service Marketplace:

<table>
<thead>
<tr>
<th>Content</th>
<th>Location on SAP Service Marketplace</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latest versions of installation and upgrade guides</td>
<td><a href="http://service.sap.com/instguides">http://service.sap.com/instguides</a></td>
</tr>
<tr>
<td>Sizing, calculation of hardware requirements - such as CPU, disk and memory resource - with the Quick Sizer tool</td>
<td><a href="http://service.sap.com/quicksizer">http://service.sap.com/quicksizer</a></td>
</tr>
</tbody>
</table>
1.2.2 Further Useful Links

The following table lists further useful links on SAP Service Marketplace:

<table>
<thead>
<tr>
<th>Content</th>
<th>Location on SAP Service Marketplace</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information about creating error messages</td>
<td><a href="http://service.sap.com/message">http://service.sap.com/message</a></td>
</tr>
<tr>
<td>SAP Notes search</td>
<td><a href="http://service.sap.com/notes">http://service.sap.com/notes</a></td>
</tr>
<tr>
<td>SAP Software Distribution Center (software download and ordering of software)</td>
<td><a href="http://service.sap.com/swdc">http://service.sap.com/swdc</a></td>
</tr>
<tr>
<td>SAP Online Knowledge Products (OKPs) – role-specific Learning Maps</td>
<td><a href="http://service.sap.com/rikt">http://service.sap.com/rikt</a></td>
</tr>
</tbody>
</table>

1.3 Product Documentation Overview

For more information on SAP Process Object Builder (including release notes, application help etc.), have a look at http://help.sap.com/pobuilder20.
1.4  Important SAP Notes

1.4.1  Important SAP Notes for this Product

You must read the following SAP Notes for SAP Process Object Builder (component CA-FS-POL) before you start the installation. These SAP Notes contain the most recent information on the installation.

Make sure that you have the up-to-date version of each SAP Note, which you can find on SAP Service Marketplace at http://service.sap.com/notes.

<table>
<thead>
<tr>
<th>SAP Note Number</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1737676</td>
<td>PROCOBJLAY Release strategy</td>
<td>All necessary information about planning the installation and upgrades</td>
</tr>
</tbody>
</table>

⚠️ Caution

You also need to make sure that you have implemented the SAP Notes related to other components used by SAP Process Object Builder. Refer to section 1.4.2 below for a list of these SAP Notes.
1.4.2 Required SAP Notes of Used Components

The following table contains the relevant SAP Notes of the components used by SAP Process Object Builder, sorted according to their relevance for the individual support packages.

**Note**

We recommend that you download the SAP Notes for the corresponding support package(s) using the *Multiple Selection* function of the *Note Assistant* (transaction SNOTE).

<table>
<thead>
<tr>
<th>SAP Note Number</th>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2320606</td>
<td>BC-WD-CMP-FPM</td>
<td>GUIBB Stable IDs: No check if ID is valid</td>
</tr>
<tr>
<td>2319744</td>
<td>BC-WD-CMP-FPM</td>
<td>FPM_BADI_APAPT_FLOORPLAN: GUIBB configuration is still editable</td>
</tr>
<tr>
<td>2316667</td>
<td>BC-ESI-WS-ABA-CFG</td>
<td>SOAMANAGER WS configuration: SXML reader/writer exception</td>
</tr>
<tr>
<td>2251122</td>
<td>CA-EPT-POC</td>
<td>Duplicate check causes issues</td>
</tr>
</tbody>
</table>
2 SAP Process Object Builder - Overview

SAP Process Object Builder (CA-FS-POL) can be used to model business or data retrieval processes that are based on enterprise services, and to map them to POL types. These types can be used independently of the Builder.

SAP Process Object Builder contains different Builders that are used to create specific POL objects / types according to use case:

The Process Object Builder (POB) is used to model complex business processes (or parts of these) in the form of process objects (POs), and map them as process object types (POTs).

The Persistent Retrieval Object Builder (PROB) is used to model objects solely for determining and displaying data in the form of persistent retrieval objects (PROs). These are created as persistent retrieval object types (PROTs).

SAP Process Object Builder also provides templates and configurations for the Service Implementation Workbench (SIW). They can be used to create customer-specific services that adhere to the standards that are used in the banking area. This provides an option for the rapid service-enablement of the back-end systems.

The POL types created with SAP Process Object Builder are a special form of composite applications (Networked Solutions) and are based on standardized architecture.


2.1 Software Units of SAP Process Object Builder

The Process Object Builder 2.0 installation package comprises all software units that are needed for running the Builders.

Minimum requirements for SAP NetWeaver release:

- 7.5 Support Package 4

Make sure that you can connect Process Object Builder 2.0 to an SAP Enterprise Service Repository (ESR), based on SAP NetWeaver 7.3 with EHP 1 or SAP NetWeaver 7.40.

For more information about the installation and the used components, refer to SAP Note 1737676.

2.2 System Landscape

The following diagram provides an overview of the system landscape for SAP Process Object Builder 2.0 FP01. We assume that the Process Object Builder is always deployed in the following landscape:
System Landscape

- SAP Enterprise Service Repository
- SAP Process Object Builder (CA-FS-POL)
- SAP_BS_Foundation
- SAP NetWeaver
3 Installation of SAP Process Object Builder

Refer to SAP Note 1737676 for more information about the installation of SAP Process Object Builder and the available support packages.
Refer to section 1.4.2 above for information on relevant SAP Notes of other components that are used by SAP Process Object Builder.

3.1 Post-Installation

After the installation has been completed successfully, you must also perform the tasks listed below. Make sure that your user has the required authorizations for system configuration.

3.1.1 Kernel Patch

Procedure
1. Check whether a kernel update is required to start WebDynpro applications (see SAP Note 1582867).
2. Make sure that the kernel version is >= 100.

3.1.2 HTTP Service Hierarchy Maintenance

Configure HTTP Service Hierarchy Maintenance using transaction SICF:

Prerequisites
The installation has been completed.

Procedure
1. Start transaction SICF.
2. Select the hierarchy type Service and choose Execute.
3. In the default host hierarchy tree, activate the following services ( * indicates that you need to activate all services of the sub tree):
   sap/bc/webdynpro/pl1/*

3.1.3 Configure System Connections

Configure the required system connections using the transactions SM59 and STRUST.
Prerequisites
The installation has been completed.

Procedure
1. Set up a connection to the ESR system (transaction SM59). For more information about securing the connection, see the SAP NetWeaver Security Guide.
2. Enter the required certificates in both systems (transaction STRUST).

3.1.4 Configure Landscape ID in SIW Customizing

Configure the landscape ID (transaction SIW).

Prerequisites
The connection to the ESR system has been set up.

Procedure
1. Start transaction SIW.
2. Choose Environment → Customizing (IMG) → Define Landscape.
3. Add a new landscape ID.
   In the field RFC Dest ES Rep, enter the trusted connection to the ESR system that you have configured (see chapter 3.1.3 above).

   Note
   SAP Process Object Builder 2.0 FP01 does not support the other RFC destinations.

3.1.5 Enable HTTPS Service for Builder UI

You need to enable the HTTPS Services to make the Process Object Builder 1.0 accessible in the browser:

Prerequisites
• The installation has been completed.
• Your user has the authorizations required for system configuration.

Procedure
1. Enter the required certificates using STRUST.
2. Ensure that the required services are activated in SICF (see HTTP Service Hierarchy Maintenance).

3.1.6 Import of ESR Content (XI Content)

SAP Process Object Builder requires the following XI content:
• XI Content SAPGLOBAL 2.0
  Always install the latest version of this content.
• POL-specific XI Content
  The ZIP file can be downloaded from the SAP Software Download Center in the Support Packages and Patch area for SAP Process Object Builder (Process Object Layer).

  **Caution**
  Always use the content file for the current support package.

Unpack the file and copy the .tpz file into the import directory of your Integration Repository. Use the import function to import the content file into the corresponding repository (Integration Repository or Enterprise Services Repository). To do so, choose Tools → Import Design Objects.

See SAP Note 836200 for more information about how to import ESR content.

### 3.1.7 Enable E-Mail Notification

The Builders of SAP Process Object Builder can send automatic e-mail notifications when mass processing has been completed. The e-mail is generated automatically and sent to the e-mail address in the user’s master record. To enable e-mail notification, the following prerequisites must be fulfilled:

- External sending must be enabled for the system in SAPConnect (BC-SRV-COM).
  For more information about this procedure, see SAP Library documentation for SAP NetWeaver. In SAP Library, choose Function-Oriented View → Application Server → Application Server ABAP → Other Services → Services for Business Users → SAPConnect (BC-SRV-COM) → Administration → External Sending in the SAP System.
- The master records of the users working with the Generation Wizard (authorization object /PL1/POT and /PL1/QOT; authorization field /PL1/CHNL) must contain the correct e-mail addresses.

### 3.1.8 Activate Package Checks

We strongly recommend that you set the global package check switch in the system to RESTRICTED or R3ENTERPRISE.

Refer to SAP Note 648898 (Switching on the package check) for information on how to set the Global Package Check Switch.

**Background:**

When creating POL types with SAP Process Object Builder, it is strongly recommended to perform a package check prior to releasing the type for productive usage. This check will provide meaningful results only if the package check is switched in in the development system.
4 Security Information

With the increasing use of distributed systems and the Internet for managing business data, the demands on security are also on the rise. When using a distributed system, you need to be sure that your data and processes support your business needs without allowing unauthorized access to critical information. User errors, negligence, or attempted manipulation of your system should not result in loss of information or processing time. These demands on security apply likewise to SAP Process Object Builder 2.0 FP01. To assist you in securing this application, we have included this chapter on security.

You need to ensure that SAP Process Object Builder 2.0 FP01 is used solely by people who contribute to the development of process objects, and that it runs solely in development systems and not in production systems.

4.1 Fundamental Security Guides


Note

The paths given in the table always refer to the latest version of the product that is available on SAP Help Portal.

<table>
<thead>
<tr>
<th>Scenario, Application or Component Security Guide</th>
<th>Location</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP NetWeaver Security Guide</td>
<td><a href="http://help.sap.com/netweaver">http://help.sap.com/netweaver</a> → Choose the corresponding NW release. Then choose Security Information.</td>
<td>This is the central entry point for any other NW security guide. It contains an overall overview of security with SAP NetWeaver as well as links to the individual guides for each of the functional areas.</td>
</tr>
</tbody>
</table>
For a complete list of the available SAP Security Guides, see SAP Service Marketplace at http://service.sap.com/securityguide.

4.2 Additional Information

For more information about specific topics, see the quick links as shown in the table below:

<table>
<thead>
<tr>
<th>Content</th>
<th>Quick Link to SAP Service Marketplace or SDN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security Guides</td>
<td><a href="http://service.sap.com/securityguide">http://service.sap.com/securityguide</a></td>
</tr>
<tr>
<td>Related SAP Notes</td>
<td><a href="http://service.sap.com/notes">http://service.sap.com/notes</a></td>
</tr>
<tr>
<td></td>
<td><a href="http://service.sap.com/securitynotes">http://service.sap.com/securitynotes</a></td>
</tr>
<tr>
<td>Released platforms</td>
<td><a href="http://service.sap.com/pam">http://service.sap.com/pam</a></td>
</tr>
<tr>
<td>Network security</td>
<td><a href="http://service.sap.com/securityguide">http://service.sap.com/securityguide</a></td>
</tr>
<tr>
<td>SAP Solution Manager</td>
<td><a href="http://service.sap.com/solutionmanager">http://service.sap.com/solutionmanager</a></td>
</tr>
<tr>
<td>SAP NetWeaver</td>
<td><a href="http://sdn.sap.com/irj/sdn/netweaver">http://sdn.sap.com/irj/sdn/netweaver</a></td>
</tr>
</tbody>
</table>

4.3 Important SAP Notes

For a list of additional security-relevant SAP Hot News and SAP Notes, see also SAP Service Marketplace at http://service.sap.com/securitynotes.

4.4 User Management

User management in SAP Process Object Builder 2.0 FP01 uses the mechanisms provided with SAP Web AS ABAP, for example, tools, user types, and password policies.

4.4.1 User Administration Tools

The table below shows the tools for user management and user administration available with SAP Process Object Builder 2.0 FP01:
### 4.4.2 User Types

It is often necessary to specify different security policies for different types of users. For example, your policy may specify that individual users who perform tasks interactively have to change their passwords on a regular basis, but not those users who run background processing jobs.

The user types that are required for SAP Process Object Builder 2.0 FP01 include only dialog users that perform the following tasks:

- Specify the model and generation-related data
- Trigger generation of software artifacts
- Carry out administrative tasks on the model and generated generation-related data

### 4.4.3 Standard Users

No further users are named in addition to the standard users described in the SAP NetWeaver AS ABAP Security Guide. All users are created by the customer’s system administrator, who also provides the initial identification parameters (such as passwords).

### 4.4.4 User Data Synchronization

SAP Process Object Builder 2.0 FP01 does not share any user information with other sources. SAP User Management is private and confidential.

### 4.4.5 Integration into Single Sign-On Environments

SAP Process Object Builder 2.0 FP01 supports the single sign-on (SSO) mechanisms provided by SAP Web AS ABAP. Therefore, the security recommendations and guidelines for user administration and authentication as described in the also apply to SAP Process Object Builder 2.0 FP01. The supported mechanisms are listed below.

**Secure Network Communications (SNC)**

SNC is available for user authentication and provides an SSO environment when you use SAP GUI for Windows or Remote Function Calls.
SAP Logon Tickets
When you use a Web browser as a front-end client, Process Object Builder 2.0 supports the use of logon tickets for SSO. In this case, users are issued with a logon ticket after they have been authenticated in the original SAP system. The ticket can then be used in other systems (SAP or external systems) as an authentication token. The user does not need to enter a user ID or password for authentication but can access the system directly after the logon ticket has been checked.

Client Certificates
As an alternative to user authentication with a user ID and password, users with a Web browser as a front-end client can also provide an X.509 client certificate for authentication. In this case, users are identified on the Web server using the Secure Sockets Layer (SSL) protocol and no passwords are required. Users are authorized in accordance with the authorization concept in the SAP system.

For more information on these mechanisms, see the SAP NetWeaver AS ABAP Security Guide (User Administration and Authentication → Integration in Single Sign-On Environments).

4.5 Authorizations

4.5.1 Role and Authorization Concept

SAP Process Object Builder 2.0 FP01 uses the authorization concept provided by SAP NetWeaver AS ABAP. Therefore, the recommendations and guidelines for authorizations as described in the SAP NetWeaver AS Security Guide ABAP also apply to SAP Process Object Builder 2.0 FP01. The SAP NetWeaver authorization concept is based on assigning authorizations to users based on roles. For role maintenance, use the Profile Generator (transaction PFCG) in AS ABAP.

4.5.2 Standard POL Roles

The following table contains all the roles that are delivered with SAP Process Object Builder 2.0 FP01 together with the authorization objects that contain the Builder-specific authorizations. Note that some of the roles contain additional authorizations that are required to perform tasks outside the Builder itself.

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>POL-Specific Authorization Objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP_PL1_PROCESS_OBJECT_BUILDER</td>
<td>Process Object Builder</td>
<td>/PL1/POT</td>
</tr>
<tr>
<td>SAP_PL1_PROCESS_OBJECT_ADMIN</td>
<td>Process Object Administrator</td>
<td>/PL1/ADMIN</td>
</tr>
</tbody>
</table>
### Security Information

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>POL-Specific Authorization Objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP_PL1_PRO_BUILDER</td>
<td>Persistent Retrieval Object Builder</td>
<td>/PL1/QOB</td>
</tr>
<tr>
<td>SAP_PL1_PRO_BUILDER_ADMIN</td>
<td>PROT-Administrat</td>
<td>/PL1/QOB_A</td>
</tr>
</tbody>
</table>

**Caution**

These roles are given as examples and must be adapted. Do not use these roles in your production system in the form in which they are delivered. You can use the Profile Generator (transaction PFCG) to display and create roles in the system.

For more information about the roles, see SAP Library for SAP Process Object Builder. In SAP Library, choose *Roles and Authorizations*.

### 4.5.3 Standard POL Authorization Objects

This section only describes the authorization objects that have been created specifically for working in SAP Process Object Builder. They mostly contain authorizations to perform tasks within the Builders. Note that users also need additional authorizations to perform specific tasks in other tools and components that are used by SAP Process Object Builder. These additional authorizations are also included in the standard POL roles (see section 4.5.2).

You can display the authorization objects in the system in transaction SU21. For more information and configuration examples, refer to the system documentation for the respective authorization object.

#### 4.5.3.1 /PL1/POT

This authorization object is used in the Process Object Builder to control which actions (authorization activities) users can perform on a process object type (POT). You can restrict authorizations to individual wizards (channels) or even individual process object types.

The authorizations are checked in the Process Object Builder and in the Service Implementation Workbench (SIW).

The authorization object provides the following fields:

- **/PL1/PO_ID** - Unique ID of a Configuration
  
  This field restricts the authorization to individual process object types.

- **/PL1/CHNL** - Channel for POL Type Maintenance
  
  A process object type or a POT editing UI can be displayed or edited using different channels. You use this field to define the application in which an activity can be performed.

  Each UI wizard represents a separate channel, meaning that you can use this field to restrict the authorization for an activity to individual wizards.
The field value Input Help controls whether or not the wizards provide input help for selecting a process object type on the initial screen.

- `/PL1/ACTV` - Authorization Activity for Configurations
  This field controls the activities that can be performed.

### 4.5.3.2 /PL1/ADMIN

This authorization object is used to control the authorizations for performing administrative tasks that are available on the Administration UI for the Process Object Builder.

The authorization object provides the following fields:

- `/PL1/TASK` - Administrative Task
  This field controls the administrative tasks that can be performed.

### 4.5.3.3 /PL1/QOB

This authorization object is used in the Persistent Retrieval Object Builder to control which actions (authorization activities) users can perform on a persistent retrieval object type (PROT). You can restrict authorizations to individual wizards (channels) or even individual persistent retrieval object types.

The authorizations are checked in the Persistent Retrieval Object Builder and in the Service Implementation Workbench (SIW).

The authorization object provides the following fields:

- `/PL1/CF_ID` - Unique ID of a Configuration
  This field restricts the authorization to persistent retrieval object types.

- `/PL1/CHNL` - Channel for POL Type Maintenance
  A persistent retrieval object type can be displayed or edited using different channels. You use this field to define the application in which an activity can be performed. Each UI wizard represents a separate channel, meaning that you can use this field to restrict the authorization for an activity to individual wizards.

  The field value Input Help controls whether or not the wizards provide input help for selecting a specific persistent retrieval object type on the initial screen.

- `/PL1/ACTV` - Authorization Activity for Configurations
  This field controls the activities that can be performed.

### 4.5.3.4 /PL1/QOB_A

This authorization object is used to control the authorizations for performing administrative tasks that are available on the Administration UI for the Persistent Retrieval Object Builder.
The authorization object provides the following fields:

- /PL1/TASK - Administrative Task
  This field controls the administrative tasks that can be performed.

### 4.6 Network and Communication Security

This section provides an overview of the communication paths used by SAP Process Object Builder 2.0 FP01 as well as the security mechanisms to be used. It also includes our recommendations for the network topology, so that you can restrict access at network level.

Your network infrastructure is extremely important in protecting your system. Your network needs to support the communication necessary for your business needs without allowing unauthorized access. A well-defined network topology can eliminate many security threats based on software flaws (at both the operating system and application level) or network attacks such as eavesdropping. If users cannot log on to your application or database servers at the operating system or database layer, then there is no way for intruders to compromise the machines and gain access to the backend system’s database or files. Additionally, if users are not able to connect to the server LAN (local area network), they cannot exploit well-known bugs and security holes in network services on the server machines.

The network topology for SAP Process Object Builder 2.0 FP01 is based on the topology used by the SAP NetWeaver platform. Therefore, the security guidelines and recommendations described in the SAP NetWeaver Security Guide also apply to SAP Process Object Builder 2.0 FP01.

#### 4.6.1 Communication Channel Security

The table below shows the communication channels used by SAP Process Object Builder 1.0, the protocol used for the connection, and the type of data that is transferred:

<table>
<thead>
<tr>
<th>Communication Path</th>
<th>Protocol Used</th>
<th>Type of Data Transferred</th>
<th>Data Requiring Special Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front-end client with WD ABAP</td>
<td>HTTP</td>
<td>All application data</td>
<td>Passwords, personal data</td>
</tr>
<tr>
<td>Application server to application server</td>
<td>RFC</td>
<td>All application data</td>
<td>Passwords, personal data</td>
</tr>
<tr>
<td>Application server to mail server</td>
<td>SMTP</td>
<td>Technical status information</td>
<td>None</td>
</tr>
</tbody>
</table>

RFC connections can be protected using Secure Network Communications (SNC). HTTP connections are protected using the Secure Sockets Layer (SSL) protocol.
Caution

We strongly recommend the use of secure protocols (SSL, SNC) whenever possible. For more information, see the chapters on Transport Layer Security and Web Services Security in the SAP NetWeaver Security Guide.

4.6.2 Network Security

Since SAP Process Object Builder 1.0 is based on SAP NetWeaver technology, for more information about network security see the following sections of the SAP NetWeaver Security Guide (SAP NetWeaver Network Security):

- Network Services
  This chapter contains information about the services and ports used by SAP NetWeaver.
- Using Firewall Systems for Access Control
  This chapter contains information about firewall settings.
- Using Multiple Network Zones
  This chapter contains information about the network segments where the individual parts of your application are to be configured.

If you offer services on the Internet, you need to protect your network infrastructure with at least a firewall. You can increase the security of your system (or group of systems) by creating the groups in different network segments, each of which is protected from unauthorized access by a firewall. Remember that unauthorized access can also come from inside if an intruder has already taken control of one of your systems.

4.6.3 Ports

SAP Process Object Builder 2.0 FP01 runs on SAP NetWeaver and uses the ports from AS ABAP. For more information, see the topics for AS ABAP Ports and AS Java Ports in the corresponding SAP NetWeaver Security Guides. For other components, for example, SAPinst, SAProuter, or the SAP Web Dispatcher, also see the document TCP/IP Ports Used by SAP Applications on the SAP Community Network at http://scn.sap.com/community/security (Infrastructure Security → Network and Communications Security).

4.6.4 Communication Destination

No RFC destinations are supplied with SAP Process Object Builder 2.0 FP01. When you set up your non-local data flows, use transaction SM59 to create your RFC destinations. You can copy the role SAP_RFC_CORR_REQ and assign this to the technical writer. For more information, see the documentation for transaction SM59 and the SAP Notes in the SAP NetWeaver Security Guide.

User authorizations can become a security risk if used in an irresponsible way. Note the following security rules for communication between two systems:
- Use the user categories System and Communication.
- Provide users with the minimum authorizations only.
- Choose a secure password and do not reveal this password to anyone.
- Save user-specific logon data only for users in the System and Communications categories.
- If possible, use trusted system functions instead of saving user-specific logon data.

4.7 Data Storage Security

The data in SAP Process Object Builder 2.0 FP01 is saved in the system database. There are no special features with regard to the SAP NetWeaver Security Guide. There are no additional locations where data is saved temporarily.

4.8 Data Protection and Privacy

4.8.1 Introduction

Data protection is associated with numerous legal requirements and privacy concerns. In addition to compliance with general data privacy regulation, it is necessary to consider compliance with industry-specific legislation in different countries. SAP provides specific features and functions to support compliance with regards to relevant legal requirements, including data protection. SAP does not give any advice on whether these features and functions are the best method to support company, industry, regional, or country-specific requirements. Furthermore, this information does not give any advice or recommendation in regards to additional features that would be required in particular IT environments; decisions related to data protection must be made on a case-by-case basis, under consideration of the given system landscape and the applicable legal requirements.

Note

In the majority of cases, compliance with applicable data protection and privacy laws will not be covered by a product feature. SAP software supports data protection compliance by providing security features and specific data protection-relevant functions, such as simplified blocking and deletion of personal data. SAP does not provide legal advice in any form. Definitions and other terms used in this document are not taken from any given legal source.
## 4.8.2 Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal data</td>
<td>Any information relating to an identified or identifiable natural person (&quot;data subject&quot;). An identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural, or social identity of that natural person.</td>
</tr>
<tr>
<td>Purpose</td>
<td>A legal, contractual, or in other form justified reason for the processing of personal data. The assumption is that any purpose has an end that is usually already defined when the purpose starts.</td>
</tr>
<tr>
<td>Blocking</td>
<td>A method of restricting access to data for which the primary business purpose has ended.</td>
</tr>
<tr>
<td>Deletion</td>
<td>The irreversible destruction of personal data.</td>
</tr>
<tr>
<td>Retention period</td>
<td>The period of time between the end of purpose (EoP) for a data set and when this data set is deleted subject to applicable laws. It is a combination of the residence period and the blocking period.</td>
</tr>
<tr>
<td>End of purpose (EoP)</td>
<td>A method of identifying the point in time for a data set when the processing of personal data is no longer required for the primary business purpose. After the EoP has been reached, the data is blocked and can only be accessed by users with special authorization (e.g. tax auditors).</td>
</tr>
</tbody>
</table>
| Sensitive personal data | A category of personal data that usually includes the following type of information:  
  ● Special categories of personal data such as data revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade union membership and the processing of genetic data, biometric data, data concerning health or sex life or sexual orientation  
  ● Personal data subject to professional secrecy  
  ● Personal data relating to criminal or administrative offenses  
  ● Personal data concerning insurances and bank or credit card accounts |
| Residence period      | The period of time after the end of purpose (EoP) for a data set during which the data remains in the database and can be used in case of subsequent processes related to the original purpose. At the end of the longest configured residence period, the data is blocked or deleted. The residence period is part of the overall retention period. |
4.8.3 Information Report and Deletion of Personal Data

- Simplified Blocking and Deletion: In addition to compliance with the general data protection regulation, it is necessary to consider compliance with industry-specific legislation in different countries. A typical potential scenario in certain countries is that personal data shall be deleted after the specified, explicit, and legitimate purpose for the processing of personal data has ended, but only as long as no other retention periods are defined in legislation, for example, retention periods for financial documents. Legal requirements in certain scenarios or countries also often require blocking of data in cases where the specified, explicit, and legitimate purposes for the processing of this data has ended, but the data has to be retained in the database due to other legally defined retention periods. In some scenarios, personal data also includes referenced data. Therefore, the challenge for deletion and blocking is to first handle referenced data and finally other data, such as business partner data.

- Deletion of personal data: The handling of personal data is subject to applicable laws related to the deletion of such data at the end of purpose (EoP). If there is no longer a legitimate purpose that requires the use of personal data, it must be deleted. When deleting data in a data set, all referenced objects related to that data set must be deleted as well. It is also necessary to consider industry-specific legislation in different countries in addition to general data protection laws. After the expiration of the longest retention period, the data must be deleted.

SAP Process Object Builder saves the user ID when a user does any of the following:

- Changes configurations and configuration data. (The change date and time is also saved.)
- Processes a step in edit mode. (The edit date and time is also saved.)
- Generates SIW projects. (The generation date and time is also saved.)

SAP provides the following reports for displaying the personal data saved for a user and replacing the user ID with another value:

**Report for POB**: /PL1/POB_UI_ADM_DPR_IMPL

**Report for PROB**: /PL1/QOB_UI_ADM_DPR_IMPL
5 Operation Information

This chapter provides you with the most important information regarding the operation of SAP Process Object Builder.


5.1 Monitoring of SAP Process Object Builder

Within the management of SAP Technology, monitoring is an essential task. This section has therefore been devoted solely to this subject.

5.1.1 Alert Monitoring

Proactive, automated monitoring is the basis for ensuring reliable operations for your SAP system environment. SAP provides you with the infrastructure and recommendations needed to set up your alert monitoring and to recognize critical situations. To enable the auto-alert mechanism of CCMS, see SAP Note 617547.

5.1.2 Problem and Performance Analysis

The technology of SAP Process Object Builder 1.0 is based on SAP NetWeaver AS ABAP. For information about technical problem analysis (for example, related to databases or the operating system), see the SAP NetWeaver Technical Operations Guide.

For more information about sizing, see the standard sizing guidelines that are published on SAP Service Marketplace at http://service.sap.com/sizing. You can also use the online sizing tool Quick Sizer at http://service.sap.com/quicksizing.

For more information about benchmarks, see http://www.sap.com/solutions/benchmark/trbk.epx.

5.1.3 Interface Monitors

You can access interface monitors for analyzing problems with interfaces such as RFC, IDoc, and HTTP using transactions SMQ1 (Outbound Queue) and SMQ2 (Inbound Queue).
5.2 Management of SAP Process Object Builder

SAP provides you with an infrastructure to help your technical support consultants and system administrators effectively manage all SAP components and complete all tasks related to technical administration and operation. You can find more information about the underlying technology in the SAP NetWeaver Technical Operations Guide on SAP Help Portal at http://help.sap.com/netweaver (System Administration and Maintenance Information).

5.2.1 Starting and Stopping

In the simplest case, the SAP system containing SAP Process Object Builder 2.0 FP01 consists of only a database and a single application server. You can start and stop the SAP system and its database using operating system tools (special scripts are available for this) or you can use the appropriate program icons.

ABAP-based components and add-ons installed in the same instance start and stop in the administrative environment of SAP NetWeaver. For more information about Application Server ABAP, see the SAP NetWeaver Technical Operations Guide.

5.2.2 Backup and Restore

You need to back up your system landscape regularly to ensure that you can restore and recover it in case of failure.

The backup and restore strategy for your system landscape should not only consider SAP systems but should also be embedded in overall business requirements and incorporate your company’s entire process flow.

In addition, the backup and restore strategy must cover disaster recovery processes, such as the loss of a data center through fire. It is most important in this context that you ensure that backup devices are not lost together with normal data storage (separation of storage locations).

For more information about the backup and recovery of data, see the SAP NetWeaver Technical Operations Guide.

5.3 Problem Message Handover

If you need to create problem messages/incidents for SAP, use the component CA-FS-POL.
6 Upgrade Information

For regularly updated release and upgrade information, see the SAP Note 1737676 (PROCOBJLAY Release strategy).

For information in relevant SAP Notes of the software units used by SAP Process Object Builder, see section 1.4.2 Required SAP Notes of Used Components.