<table>
<thead>
<tr>
<th>Type Style</th>
<th>Represents</th>
<th>Icons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example Text</td>
<td>Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options. Cross-references to other documentation</td>
<td></td>
</tr>
<tr>
<td>Example text</td>
<td>Emphasized words or phrases in body text, titles of graphics and tables</td>
<td></td>
</tr>
<tr>
<td>EXAMPLE TEXT</td>
<td>Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.</td>
<td></td>
</tr>
<tr>
<td>Example text</td>
<td>Screen output. This includes file and directory names and their paths, messages, names of variables and parameters, source code as well as names of installation, upgrade and database tools.</td>
<td></td>
</tr>
<tr>
<td>Example text</td>
<td>Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.</td>
<td></td>
</tr>
<tr>
<td>&lt;Example text&gt;</td>
<td>Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries.</td>
<td></td>
</tr>
<tr>
<td>EXAMPLE TEXT</td>
<td>Keys on the keyboard, for example, function keys (such as F2) or the ENTER key.</td>
<td></td>
</tr>
</tbody>
</table>
History of Changes

The Master Guide is regularly updated in SAP Service Marketplace at service.sap.com/instguides.

Ensure you have the latest version of the Master Guide by checking SAP Service Marketplace immediately before starting the installation.

The following table provides an overview of the most important changes that were made in the latest versions.

<table>
<thead>
<tr>
<th>Master Guide Version</th>
<th>Important Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00 (May, 2008)</td>
<td>Initial version of the Solution Master Guide for SAP Product and REACH Compliance 1.1</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>2.0 (September, 2009)</td>
<td>Initial version of the Solution Master Guide for SAP Product and REACH Compliance 2.0</td>
</tr>
<tr>
<td>2.1 (March, 2010)</td>
<td>Added recommendation to install support packages and SAP Notes</td>
</tr>
<tr>
<td>2.2 (May, 2010)</td>
<td>Updated Reference to SAP Notes on Support Package SP01</td>
</tr>
<tr>
<td>2.3 (August, 2010)</td>
<td>Added statement on Adobe Flashplayer prerequisite</td>
</tr>
<tr>
<td>2.4 (January, 2011)</td>
<td>Added security information about directory traversal</td>
</tr>
</tbody>
</table>
Contents

History of Changes ................................................................. 4

1 Getting Started ................................................................. 6
  1.1 About this Document ..................................................... 6
  1.2 Related Information ..................................................... 7
    1.2.1 Planning Information .............................................. 7
    1.2.2 Further Useful Links ............................................ 8
  1.3 Important SAP Notes .................................................... 9

2 SAP Product and REACH Compliance Overview .................... 11
  2.1 Software Component Overview ....................................... 11
  2.2 Software Components of SAP Product and REACH Compliance ..................................................... 13
  2.3 System Landscape ..................................................... 15
  2.4 Overall Implementation Sequence .................................. 24

3 Security .................................................................................. 25
  3.1 Network and Communication Security ................................ 25
  3.2 Security Logging and Tracing ......................................... 27
  3.3 Data Storage Security ................................................... 28

4 Business Scenario of SAP Product and REACH Compliance .... 30
  4.1 Product Compliance ..................................................... 30
  4.2 REACH Compliance ..................................................... 32

5 References ............................................................................. 33
**1 Getting Started**

**1.1 About this Document**

**Purpose**

This master guide is the central starting point for the technical implementation of *SAP Product and REACH Compliance* and describes the two business scenarios *Product Compliance* and *REACH Compliance* including its processes.

You can also find scenario-specific information in this guide.

Use the master guide to get an overview of *SAP Product and REACH Compliance*, its software units, and its scenarios from a technical perspective. The master guide is a planning tool that helps you to design your system landscape. It refers you to the required detailed documentation, mainly the following:

- *Installation Guide* for *SAP Product and REACH Compliance* that also contains configuration information
- *Basic Configuration Guide* which describes steps to be executed for both business scenarios
- Business scenario specific configuration guides
- *Solution Operation Guide for SAP Product and REACH Compliance*
- SAP Notes
- SAP Library documentation

The *Master Guide* consists of the following main sections:

- Software components
  These chapters list and describe which software components are used.
- System landscape
- Implementation sequence
  Information about the overall installation sequence and subsequent steps.
- Business Scenario
  An overview of the business scenarios supported by *SAP Product and REACH Compliance*.
- References
  References to related installation, configuration, and operation guides.

⚠️ You can find the most current information about the technical implementation of *SAP Product and REACH Compliance* and the latest installation and configuration guides on *SAP Service Marketplace* at service.sap.com/instguides.

It is recommended that you use the documents available here. The guides are regularly updated.

⚠️ *SAP Product and REACH Compliance* supports *SAP ERP 2004* and *SAP ERP 6.0*. This guide concentrates on using *SAP ERP 6.0*. For more information about installing *SAP Product and REACH Compliance* on *SAP ERP 2004*, see SAP Note 1389562.
1 Getting Started

1.2 Related Information

Constraints

- The business scenarios that are presented here serve as an example of how you can use SAP software in your company. The business scenarios are only intended as a model and do not necessarily run the way it is described here in your customer-specific system landscape. Ensure that you check your requirements and systems to determine whether these scenarios can be used productively at your site. Furthermore, we recommend that you test the scenarios thoroughly in your test systems to ensure that they are complete and free of errors before going live.

- This master guide primarily discusses the overall technical implementation of SAP Product and REACH Compliance and not its subordinate components. This means that additional software dependencies might exist without being mentioned explicitly in this document. You can find more information on component-specific software dependencies in the corresponding configuration guides.

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 the 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>service.sap.com/instguides</td>
</tr>
<tr>
<td>Sizing, calculation of hardware requirements - such as CPU, disk and</td>
<td>service.sap.com/quicksizer</td>
</tr>
<tr>
<td>memory resource - with the Quick Sizer tool</td>
<td></td>
</tr>
<tr>
<td>Released platforms and technology-related topics such as maintenance</td>
<td>service.sap.com/platforms</td>
</tr>
<tr>
<td>strategies and language support</td>
<td>To access the Platform Availability Matrix</td>
</tr>
<tr>
<td>SAPterm is the SAP terminology database</td>
<td>service.sap.com/sapterm</td>
</tr>
<tr>
<td>Network security</td>
<td>service.sap.com/securityguide</td>
</tr>
<tr>
<td>High Availability</td>
<td>service.sap.com/ha</td>
</tr>
<tr>
<td>Performance</td>
<td>service.sap.com/performance</td>
</tr>
<tr>
<td>Information about support package stacks, latest software versions,</td>
<td>service.sap.com/sp-stacks</td>
</tr>
<tr>
<td>and patch level requirements</td>
<td></td>
</tr>
<tr>
<td>Information about Unicode technology</td>
<td>service.sap.com/unicode@sap</td>
</tr>
<tr>
<td>SAP Library is a collection of function-oriented and process-oriented</td>
<td>service.sap.com/ibc</td>
</tr>
<tr>
<td>documentation</td>
<td></td>
</tr>
</tbody>
</table>
1.2.2 Further Useful Links

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

<table>
<thead>
<tr>
<th>Content</th>
<th>Location on SAP Service Marketplace</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP Notes search</td>
<td>service.sap.com/notes</td>
</tr>
<tr>
<td>SAP Software Distribution Center (software download and ordering of software)</td>
<td>service.sap.com/swdc</td>
</tr>
<tr>
<td>SAP Online Knowledge Products (OKPs) – role-specific learning maps</td>
<td>service.sap.com/rkt</td>
</tr>
<tr>
<td>SAP Product and REACH Compliance is based on SAP EH&amp;S in ERP 6.0</td>
<td>service.sap.com/ehs</td>
</tr>
</tbody>
</table>
1.3 Important SAP Notes

You must read the following SAP Notes before you start the installation. These SAP Notes contain the most recent information on the installation, as well as corrections to the installation documentation.

Ensure that you have the up-to-date version of each SAP Note that you can find on the SAP Service Marketplace at service.sap.com/notes.

<table>
<thead>
<tr>
<th>SAP Note Number</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1386600</td>
<td>SAP PRC 2.0: Documents for installation and configuration</td>
<td>This note contains all documents and notes that are relevant for configuring the product SAP REACH Compliance.</td>
</tr>
<tr>
<td>1393976</td>
<td>SAP PRC 2.0: Add-On Support Packages</td>
<td>Entry point for information on the available support packages. In detail, for each support package the release date and links to the release information notes are listed in this SAP Note.</td>
</tr>
<tr>
<td>1389856</td>
<td>SAP PRC 2.0: Release Information</td>
<td>Additional information to the installation guide</td>
</tr>
<tr>
<td>1398852</td>
<td>SAP PRC 2.0: Release Strategy</td>
<td></td>
</tr>
<tr>
<td>1389574</td>
<td>SAP PRC 2.0: Switch Upgrade to SAP ERP 6.0</td>
<td>Additional information to the SAP Product and REACH Compliance Upgrade Master Guide on upgrading the ERP System from mySAP ERP 2004 to ERP 6.0 with REACH Compliance or Product and REACH Compliance installed.</td>
</tr>
<tr>
<td>1389561</td>
<td>SAP PRC 2.0: Installation and upgrade for ERP 6.0</td>
<td>Additional information to the installation guide for installing SAP Product and REACH Compliance on ERP 6.0</td>
</tr>
<tr>
<td>1389562</td>
<td>SAP PRC 2.0: Installation and upgrade for ERP 2004</td>
<td>Additional information to the installation guide for installing SAP Product and REACH Compliance on mySAP ERP 2004</td>
</tr>
<tr>
<td>1389854</td>
<td>SAP PRC 2.0: Upgrade of Compliance for Products 2.2</td>
<td>Additional information on the migration of Technidata Compliance for Products to SAP Product and REACH Compliance</td>
</tr>
<tr>
<td>1513492</td>
<td>Directory traversal in SAP Product and REACH Compliance</td>
<td>Important Security Information about potential risk of directory traversal</td>
</tr>
</tbody>
</table>
To ensure that all relevant corrections are implemented when you start, we strongly recommend that you install any available support packages and any SAP Notes based on the most recently installed support package.

See SAP Note 1399976 for details about the available support packages and a list of the relevant SAP Notes.
2 SAP Product and REACH Compliance Overview

2.1 Software Component Overview

This section provides an overview of the components for SAP Product and REACH Compliance.

⚠️

SAP Product and REACH Compliance supports SAP ERP 2004 and SAP ERP 6.0. This guide concentrates on using SAP ERP 6.0. For more information about installing SAP Product and REACH Compliance on SAP ERP 2004, see SAP Note 1389562.

⚠️

It is mandatory that the SAP back-end system to be communicated with is a Unicode system (see SAP Note 73606).

When communicating with non-Unicode SAP back-end systems, only characters that are defined in the appropriate SAP codepage assigned to your logon language can be processed properly. Characters undefined in the non-Unicode SAP codepage will be garbled by the SAP Java Connector, and messages sent to the backend may become truncated.

For more information about restrictions and possible problems when connecting Unicode Systems with non-Unicode systems, see SAP Note 975768.

SAP assumes no responsibility or liability of any kind for problems that may arise from that.

For information on how to convert an R/3 system to Unicode, see the SAP Service Marketplace under the quicklink unicode@sap. The conversion guide can be found under Unicode Library -> Unicode Conversion Library. For more information, see also Note 427561. Be sure to choose the conversion guide that matches your basis release and SP.
<table>
<thead>
<tr>
<th>Software Component</th>
<th>Release Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP ERP 6.0 including PLM Extension</td>
<td>SAP ERP 6.0 with EA-APPL</td>
</tr>
<tr>
<td>SAP NetWeaver – ABAP stack</td>
<td>NW 7.0</td>
</tr>
<tr>
<td>SAP NetWeaver Composition Environment</td>
<td>NW CE 7.10</td>
</tr>
<tr>
<td>SAP Product and REACH Compliance 2.0 – Core Component</td>
<td>Release 2.0</td>
</tr>
<tr>
<td>SAP Product and REACH Compliance 2.0 – Business Package</td>
<td>Release 2.0</td>
</tr>
<tr>
<td>SAP Product and REACH Compliance 2.0 – Supplier Self Service</td>
<td>Release 2.0</td>
</tr>
<tr>
<td>Microsoft Internet Explorer with Adobe Flashplayer Plug-In</td>
<td>Release 6.0</td>
</tr>
<tr>
<td>SAP GUI for Windows</td>
<td>Release 7.10</td>
</tr>
</tbody>
</table>
2.2 Software Components of SAP Product and REACH Compliance

This section provides additional information about the most important software components of SAP Product and REACH Compliance.

Business Package for SAP Product and REACH Compliance

The Business Package for SAP Product and REACH Compliance provides the content for SAP NetWeaver Portal to run the solution. This includes roles, worksets, and iViews. The iViews are used to encapsulate screens provided by the SAP Product and REACH Compliance core component.

SAP Product and REACH Compliance Core

The SAP Product and REACH Compliance core application is an ABAP-based component that uses SAP ERP with PLM Extension and its database as persistency layer. The SAP Product and REACH Compliance core application provides information called from the iViews of the Business Package for SAP Product and REACH Compliance.

SAP Product and REACH Supplier Self Service

The SAP Product and REACH Compliance Supplier Self Service is a Java-based component that uses SAP Product and REACH Compliance core component as base for the business logic.

SAP NetWeaver Portal

The SAP NetWeaver Portal unifies collaboration, knowledge management, and relevant content by integrating information, applications, and services. For more information, see the documentation on SAP NetWeaver Portal in SAP NetWeaver Composition Environment.

The SAP Product and REACH Compliance Business Package leverages the following functionality from SAP NetWeaver Portal:

- **Role-Based User Interfaces**
  Each user of SAP Product and REACH Compliance sees only those services of the solution that are relevant to the user’s role in the company. This is achieved by SAP Product and REACH Compliance Business Package already by delivering a set of basic portal roles that can be customized by default the functionality of SAP NetWeaver Portal.

- **End User Personalization**
  Every user of SAP Product and REACH Compliance can customize the user interfaces of SAP Product and REACH Compliance by using the personalization functionality of SAP NetWeaver Portal.

- **Object-based-Navigation**
  Any navigation in the SAP NetWeaver Portal is implemented based on the Object-Based Navigation functionality of SAP NetWeaver Portal. Due to this, custom user interfaces can be integrated smoothly into the services provided by SAP Product and REACH Compliance.

- **Universal Work List**
  SAP Product and REACH Compliance uses the Universal Work List functionality of SAP NetWeaver Portal coupled by SAP Business Workflow in SAP ERP for management of processes where multiple users are involved.
SAP Application Server Java

*SAP Application Server Java* is a platform for quickly developing and deploying dynamic and collaborative Web applications or other thin-client applications (WAP, PDA, and so on), and includes all proven SAP programming models and technologies. For more information, see the documentation for *SAP Netweaver Composition Environment*.

*SAP Product and REACH Compliance* relies on *SAP Application Server Java* as the basic infrastructure for business logic and user interfaces implemented in Java and Web Dynpro Java. Also, RFC function module implementations in Java are provided to the parts of the solution being implemented in SAP ERP.
2.3 System Landscape

The system landscape for SPRC depends on the implemented functionality. Therefore, this section is structured based on the configuration guides for the different functionalities, whereas the Basic Configuration reflects the minimum functionality.

Basic Configuration Guide

This guide is relevant for both business scenarios – Product Compliance and REACH Compliance. It guides you through the configuration of the basic application infrastructure.

Minimum requirement for functionalities of business scenario Product Compliance

Minimum requirement for functionalities of business scenario REACH Compliance

January, 2011
Configuration Guide - Supply Chain Collaboration

This guide is relevant for both business scenarios and is required if the Supply Chain Collaboration functionality is used.

The supply chain collaboration function provides dashboards with statistics for the communication processes in the supply chain. These dashboards are technically based on Adobe Flash. In consequence, the Web browsers on the internal clients must have the current version of Adobe Flashplayer Plug-In installed.
Configuration Guide - Substance Management

This guide is part of business scenario \textit{REACH Compliance} and required if the pure substance based functionality is used.

The registration management function provides dashboards with statistics for registration projects. These dashboards are technically based on Adobe Flash. In consequence, the Web browsers on the internal clients must have the current version of Adobe Flashplayer Plug-In installed.

Configuration Guide - AIAG / IEEE Module

This guide is part of business scenario \textit{Product Compliance} and required if the compliance checks for the regulations AIAG and IEEE are used.
Configuration Guide - Integration of Basic Material Assignment in Material Views

This guide is part of business scenario Product Compliance and required, only if the basic materials are maintained in the material master.
Configuration Guide - RoHS

This guide is part of business scenario Product Compliance and required if the compliance checks for the EU RoHS or China RoHS regulation are used.

Configuration Guide - Compliance History Reporting

This guide is part of business scenario Product Compliance and required if the compliance history reporting functionality is used.
**Configuration Guide - Product Variants**

This guide is part of business scenario *Product Compliance* and required if the product variant support is used.

**Configuration Guide - IPC, PDM and Conversion Services**

This guide is relevant for business scenario *Product Compliance* and required, only if the following applies:

- Supply Chain Collaboration relies on the IPC1572 sheet.
- PDM import services are used.
- Custom data conversions are implemented.

ADS is only mandatory, if IPC PDF shall be used. Otherwise, only the usage of IPC XML is possible.
Configuration Guide - IMDS

This guide is relevant for business scenario Product Compliance and required, only if the IMDS interface is used.
Configuration Guide - Supplier Self Service

This guide is relevant for business scenario Product Compliance and required, only if the Supplier Self Service Portal is used as the communication platform in the supply chain.

Since the Supplier Self Service Portal is an External-Facing Portal it is recommended to be placed in a Demilitarized Zone (DMZ).
General Limitations

The technical prerequisite for SAP Product and REACH Compliance is the installation of the Java and Portal components of SAP Product and REACH Compliance on the same Java stack. The only option to connect an existing corporate Enterprise Portal is using the Federated Portal Network - Remote Role Assignment.

Be aware that the Web browser for the clients requires access using HTTP or HTTPS to the Portal system as well as to the back-end system.

It is possible to install the SAP Product and REACH Compliance Portal system and the back-end system on the same server as the double-stack system. Take the different sizing requirement into account to prevent performance issues. If you choose to do this, the system requirements of the Java stack apply also to the ABAP stack.

Some processes of SAP Product and REACH Compliance send and receive e-mails. As a technical prerequisite for these processes, the e-mail send and receive functionality on the ERP system must be active and configured.

It is generally strongly recommended to use cryptographically secured network communication only, such as SNC (Secure Network Computing) and https. The use of unsecured network communication may lead to unintended disclosure of information. For more information, see the Security Guide for SAP Netweaver CE.

For more information about deployment options for the possible server constellations that you can use, see the recommendations at https://www.sdn.sap.com/irj/sdn/landscapedesign → Distribution Models.
## 2.4 Overall Implementation Sequence

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Remarks/Subsequent Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Installation of SAP ERP 6.0 including PLM Extension.</td>
<td>The installation of ABAP stack as well as Java stack is necessary. Prepare SAP EH&amp;S as described in the SAP Product and REACH Compliance Installation Guide.</td>
</tr>
<tr>
<td></td>
<td>service.sap.com/instguides → SAP ERP → SAP ERP 6.0 → Installation</td>
<td>For special information about installing SAP Product and REACH Compliance on SAP ERP 2004, see SAP Note 1389562.</td>
</tr>
<tr>
<td>2</td>
<td>Installation of the SAP NetWeaver Composition Environment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>service.sap.com/instguides → SAP NetWeaver → SAP NetWeaver Composition Environment</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Installation of the SAP Product and REACH Compliance ABAP stack</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SAP Product and REACH Compliance Installation Guide</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Installation of the SAP Product and REACH Compliance Java stack</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SAP Product and REACH Compliance Installation Guide</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Installation of the Portal Content for SAP Product and REACH Compliance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SAP Product and REACH Compliance Installation Guide</td>
<td></td>
</tr>
</tbody>
</table>

For detailed installation information and configuration purposes, see the Installation Guide for SAP Product and REACH Compliance.
3 Security

3.1 Network and Communication Security

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 Product and REACH Compliance** 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 Product and REACH Compliance**.

Communication Channel Security

The table below shows the communication channels used by the **SAP Product and REACH Compliance**, the protocol used for the connection and the type of data 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>Frontend client using SAP GUI for Windows to application server</td>
<td>DIAG</td>
<td>All application data</td>
<td>Passwords</td>
</tr>
<tr>
<td>Frontend client using a Web browser to application server</td>
<td>HTTP</td>
<td>All application data</td>
<td>Passwords</td>
</tr>
<tr>
<td>Application server to IUCLID5 web services</td>
<td>HTTP</td>
<td>IUCLID substance and endpoint data, IUCLID user credentials</td>
<td>IUCLID passwords (MD5 encrypted)</td>
</tr>
</tbody>
</table>

DIAG and RFC connections can be protected using Secure Network Communications (SNC). HTTP connections are protected using the Secure Sockets Layer (SSL) protocol. For more information, see *Transport Layer Security* in the **SAP NetWeaver CE Security Guide**.
Network Security
The systems relevant for SAP Product and REACH Compliance should be set up in the following network segments:

1. Internal LAN:
   a. TDAG UI for Reach
   b. TDAG for Reach ERP 2005 respectively TDAG for Reach ERP 2004
   c. IUCLID System
   d. WWI Server
2. DMZ
   a. TDAG UI External for Reach

For more information, see Using Multiple Network Zones [SAP Library] in the SAP NetWeaver Security Guide.

Communication Destinations
The table below shows an overview of the communication destinations used for SAP Product and REACH Compliance.

Connection Destinations

<table>
<thead>
<tr>
<th>Destination</th>
<th>Type</th>
<th>User, Authorizations</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDAG_RCS_IMG</td>
<td>RFC (Java-to-ABAP)</td>
<td>Technical User with role /TDAG/RCS_IMG</td>
<td>Refer to Installation Upgrade Guide for more information.</td>
</tr>
<tr>
<td>TDAG_RCS_APP</td>
<td>RFC (Java-to-ABAP)</td>
<td>SSO</td>
<td>Refer to Installation Upgrade Guide for more information.</td>
</tr>
<tr>
<td>TDAG_RCS_EPM GMT_BACKGROUNDD_SYNC</td>
<td>RFC (Java-to-ABAP)</td>
<td>Technical User with role /TDAG/RCS_IUCLID_SYNC</td>
<td>Refer to Configuration Guide Substance Management for more information.</td>
</tr>
<tr>
<td>TDAG_RCS_IMDS_BATCH_CLIENT</td>
<td>RFC (ABAP-to-C++)</td>
<td>Technical User</td>
<td>Refer to Configuration Guide IMDS for more information.</td>
</tr>
<tr>
<td>TDAG_RCS_CONV_SVC</td>
<td>RFC (ABAP-to-Java)</td>
<td>Technical User</td>
<td>Refer to Configuration Guide IPC PDM Conversion Services for more information.</td>
</tr>
<tr>
<td>TDAG_RCS_PFR_GEN_RFC</td>
<td>RFC (ABAP-to-Java)</td>
<td>Technical User</td>
<td>Refer to Configuration Guide Substance Management for more information.</td>
</tr>
<tr>
<td>TDAG_RCS_EPM GMT_BACKGROUNDD_SYNC</td>
<td>RFC (ABAP-to-Java)</td>
<td>Technical User</td>
<td>Refer to Configuration Guide Substance Management for more information.</td>
</tr>
</tbody>
</table>
More Information
For more information, see the following sections in the SAP NetWeaver Security Guide:
- Network Security [SAP Library]
- Security Guide for Connectivity with the AS Java [SAP Library]

3.2 Security Logging and Tracing
For more information on Logging and Tracing for SAP Product and REACH Compliance refer to the Solution Operation Guide.
3 Security

3.3 Data Storage Security

Data Storage

*SAP Product and REACH Compliance* uses transfer files for exchanging data either between two SAP systems or between an SAP system and an external system.

After generating a transfer file either by exporting data or uploading a transfer file from a PC file system, the transfer file is stored on the application server. The transfer file will be overwritten if the export is started again or a new file is uploaded from a PC file system.

Using Logical Path and File Names to Protect Access to the File System

*SAP Product and REACH Compliance* saves data in files in the file system. Therefore, it is important to explicitly provide access to the corresponding files in the file system without allowing access to other directories or files (also known as directory traversal). This is achieved by specifying logical paths and file names in the system that map to the physical paths and file names. This mapping is validated at runtime and if access is requested to a directory that does not match a stored mapping, then an error occurs.

The following lists show the logical file names and paths used by *SAP Product and REACH Compliance*.

<table>
<thead>
<tr>
<th>Logical File Names</th>
<th>Programs Using these Logical File Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRC_HOME_PATH</td>
<td>Logical path to the root directory for the logical file names SPRC_IMPORT_DIR, SPRC_ARCHIVE_DIR and SPRC_ERROR_DIR.</td>
</tr>
<tr>
<td>SPRC_IMPORT_DIR</td>
<td>Directory for all files to be processed by the import functionality</td>
</tr>
<tr>
<td>SPRC_ARCHIVE_DIR</td>
<td>Directory for all files successfully processed by the import functionality</td>
</tr>
<tr>
<td>SPRC_ERROR_DIR</td>
<td>Directory for all files for which the processing by the import functionality failed</td>
</tr>
</tbody>
</table>

To ensure that you can continue using the option to pick up a failed or archived import again, you have to set up the logical files SPRC_ARCHIVE_DIR and SPRC_ERROR_DIR pointing to subdirectories of the physical path of SPRC_IMPORT_DIR.

In other words, if SPRC_IMPORT_DIR points to a physical path \`\`\myserver\src\import\`, the recommended physical paths for the archive and error directories are as following:

- SPRC_ARCHIVE_DIR: \`\myserver\src\import\archive\`
- SPRC_ERROR_DIR: \`\myserver\src\import\error\`

If you decide to not follow this recommendation, you would have to copy the files for failed or archived imports into SPRC_IMPORT_DIR before you can pick up the import again.
Activating the Validation of Logical Path and File Names

These logical paths and file names are specified in the system for the corresponding programs. For downward compatibility, the validation at runtime is deactivated by default. Perform the following steps to activate the validation at runtime:

1) Assign the logical path SPRC_HOME_PATH to the syntax group of the application server.
2) Maintain the directory on the application server at the logical path SPRC_HOME_PATH where all transfer files for SAP Product and REACH Compliance shall be stored.
3) Maintain the physical path using the transactions FILE (client-independent) and SF01 (client-specific) at the logical file names SPRC_IMPORT_DIR, SPRC_ARCHIVE_DIR and SPRC_ERROR_DIR.

To find out which paths are being used by your system, you can activate the corresponding settings in the Security Audit Log.

For more information, see:


⚠️ Using logical file names to improve the security of SAP Product and REACH Compliance requires a specific Support Package Level and some SAP Notes. Refer to SAP Note [1513492](http://help.sap.com) for the detailed requirements.
4 Business Scenario of SAP Product and REACH Compliance

4.1 Product Compliance

Overview
This business scenario enables the effective management of product compliance processes. It comprises the management of material and substance data, compliance checks, and supply chain collaboration in various formats.

The law requires companies to evaluate and document the environmental impact of their products with due diligence. Nowadays, however, the vast majorities of companies are integrated in a complex supply chain and have little choice but to rely on the compliance declarations of their vendors. The principles of due diligence can only be met in a compliance check if there is fully transparent documentation of all data, sourced both internally and externally.

The business scenario comprises the following processes:

- Product Compliance Management
  - AIAG/IEEE Module
  - RoHS
  - Compliance History Reporting
  - Product Variants
  - IPC, PDM and Conversion Services
  - IMDS
- Component Management
  - AIAG/IEEE Module
  - Integration of Basic Material Assignment in Material Views
  - RoHS
  - Compliance History Reporting
  - IPC, PDM and Conversion Services
  - IMDS
- Supply Chain Collaboration
  - Customer Communication
  - Supplier Communication
  - Supplier Self Service
  - Reporting

Technical System Landscape
For more information, see 2.3 System Landscape.

Software Units
For more information, see 2.1 Software Component Overview.

Implementation Sequence
For more information, see 2.4 Overall Implementation Sequence.

Further Information
The following documents provide more information about product compliance:
<table>
<thead>
<tr>
<th>Content</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scenario Description</td>
<td>See the documentation in SAP Solution Manager.</td>
</tr>
<tr>
<td>Configuration Documentation</td>
<td>See the documentation in SAP Solution Manager.</td>
</tr>
</tbody>
</table>
4.2 REACH Compliance

Overview
You can use this business scenario for the effective management of REACH-related processes. It comprises the management of material and substance data, the support with legal process management, and supply chain collaboration.

REACH is the new regulation on registration, evaluation, authorization, and restriction of chemicals. The protection of human health and the environment from risks through chemical exposures is the main objective of the REACH regulation. The industry is responsible for assessing and managing these risks and has to provide appropriate safety information to their users. REACH also promotes alternative test methods and the exchange of information throughout the supply chain as well as beyond the supply chain.

The business scenario comprises the following processes:

- Supply Chain Collaboration
  - REACH Material Assessment
  - REACH Customer Communication
  - REACH Supplier Communication
  - REACH Campaign Management
- Substance Management
  - REACH Substance Base Data
  - REACH Cost Monitoring
  - Substance Volume Tracking
  - REACH Endpoint Management and IUCLID Integration
  - REACH Registration Management
  - REACH SIEF Project
  - REACH Data Export and Reporting

Technical System Landscape
For more information, see 2.3 System Landscape.

Software Units
For more information, see 2.4 Overall Implementation Sequence.

Implementation Sequence
For more information, see 2.4 Overall Implementation Sequence.

Further Information
The following documents provide more information about REACH Compliance Management.

<table>
<thead>
<tr>
<th>Content</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Scenario Description</td>
<td>See the documentation in SAP Solution Manager.</td>
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<tr>
<td>Configuration Documentation</td>
<td>See the documentation in SAP Solution Manager.</td>
</tr>
</tbody>
</table>
The following table shows referenced documentation for *SAP Product and REACH Compliance*.

<table>
<thead>
<tr>
<th>Title</th>
<th>Purpose</th>
<th>Where to Find</th>
</tr>
</thead>
</table>
| SAP Product and REACH Compliance Installation and Upgrade Guide | Provides information about installing and configuring SAP Product and REACH Compliance  
Additionally, the Upgrade from SAP REACH Compliance 1.1 is documented.  
Additionally, the Migration of TechniData Compliance for Products is documented. | [service.sap.com/instguides](service.sap.com/instguides) |
| SAP Product and REACH Compliance Operation Guide | Provides information about operating SAP Product and REACH Compliance | [service.sap.com/instguides](service.sap.com/instguides) |