Administration Guide | PUBLIC
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Administration Guide for SAP Profitability and Performance Management

THE BEST RUN SAP

Content

1 Getting Started

1.1 About this Guide

This guide is the central source of information for the technical implementation of SAP Profitability and Performance Management.

This guide contains the following:

- Installation information
- Overview of the installation components and the sequence in which they are installed, as described in detail in the Release Strategy Note 2174298.
- Operation information
- Security information

2 Installation Information

2.1 Important SAP Notes

SAP Note	Description
2174298	Release strategy for ABAP add-on NXI
2885687	Create TADIR entries for generated objects **before** performing a Netweaver or S/4HANA or BW/4HANA system upgrade where SAP Profitability and Performance Management is installed. If you are on SP07 and below, make sure to implement and perform manual activities of this note **before** performing an upgrade of Netweaver or S/4HANA or BW/4HANA. If you are on SP08 and above, make sure to perform the manual activities of this note **before** performing an upgrade of Netweaver or S/4HANA or BW/4HANA.
2943921 3040747 3041402	The installation of these notes from the SAP_BW Netweaver component is a prerequisite if you are applying NXI 300 SP14 and above.
3217755	SAP Profitability and Performance Management 3.0 Patch and Upgrade Recommendation Guide

2.2 Implementation Sequence

2.2.1 Planning

2.2.1.1 System Landscape

SAP Profitability and Performance Management is based on the SAP HANA appliance software, in particular the SAP HANA database, and SAP NetWeaver.

The SAP HANA database must be available and configured with the latest revision of the current support package – at least the revision specified in the release note – before starting the installation of the application.

For more information about the latest revisions to the SAP HANA database, see the *SAP HANA Master Guide* (Installation of SAP HANA) or *SAP HANA Master Update Guide* (update of SAP HANA) in the *Related Information* section below.

When you install SAP Profitability and Performance Management 3.0, you have the following options:

- Option 1 – Install SAP Profitability and Performance Management on a plain NetWeaver 750 instance. Minimum requirements:
  - SAP NetWeaver 750 (minimum SP10)
  - SAP HANA 2.0 (minimum SPS05)
- Option 2 - Install SAP Profitability and Performance Management 3.0 in the same instance as SAP S/4HANA. Minimum requirements:
  - SAP S/4HANA (minimum SAP S/4HANA 1709 FPS01 or SAP S/4HANA 1809 initial shipment or SAP S/4HANA 1909 initial shipment or SAP S/4HANA 2020 initial shipment or SAP S/4HANA 2021 initial shipment or SAP S/4HANA 2022 initial shipment)
  - HANA 2.0 (minimum SPS05)
- Option 3 - Install SAP Profitability and Performance Management 3.0 in the same instance as BW/4HANA. Minimum requirements:
  - SAP BW/4HANA (minimum version BW/4HANA 1.0 SP07 or BW/4HANA 2.0 initial shipment or BW/4HANA 2021 initial shipment)
  - SAP HANA 2.0 (minimum SPS05)
- The user interface is built using Web Dynpro ABAP. The underlying database for SAP Profitability and Performance Management is SAP S/4HANA. The database is accessed by the SAP NetWeaver application server using Open SQL or the ABAP Database Connectivity (ADBC) interface. Therefore, only SAP NetWeaver user management is required.

Related Information

SAP HANA Platform

2.2.1.2 Hardware and Software Requirements

You can choose one of the following options to deploy SAP Profitability and Performance Management:

- In a plain NetWeaver 750 instance. For this option, the minimum system requirements are SAP HANA 2.0 SPS 05 and Netweaver 750 SP 10.
- In the same instance as S/4HANA. For this option, the minimum system requirements are SAP HANA 2.0 SPS 05 and SAP S/4 HANA 1709 FPS 01 or SAP S/4HANA 1809 or SAP S/4 HANA 1909 or SAP S/4 HANA 2020 SAP S/4 HANA 2021 or SAP S/4HANA 2022 initial shipment.
- In the same instance as BW/4HANA. For this option, the minimum system requirements are SAP HANA 2.0 SPS 05 and BW/4HANA 1.0 SP 07 or BW/4HANA 2.0 or or BW/4HANA 2021.

Related Information

For more information about individual component details, see Preparation [page 7].

2.2.2 Preparation

Prerequisites

Based on the deployment option you choose, your system contains the respective components and support packages as described below:

Option 1: Plain NetWeaver-based installation

1. **Components**
   Your system contains the following components and support packages if you are deploying it in a plain NetWeaver 750 instance:
   - SAP_ABA 750
   - SAP_BASIS 750
   - SAP_UI 750
   - SAP_BW 750
2. **Support packages**
   Your system contains the following components and support packages if you are deploying it in a plain NetWeaver 750 instance:
   - SAP_ABA 750 minimum SP10, SAPK-75010INSAPABA
   - SAP_BASIS 750 minimum SP10, SAPK-75010INSAPBASIS
   - SAP_BW 750 minimum SP10, SAPK-75010INSAPBW
   - SAP_UI 750 minimum SP10, SAPK-75010INSAPUI
3. You have imported the latest SPAM/SAINT update (if required).
4. Import the latest R3trans and tp.

Option 2: Deploying it in the same instance as SAP S/4HANA

1. Components
   Your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 1709 FPS01:
   - SAP_ABA75C
   - SAP_BASIS752
   - SAP_UI752
   - SAP_BW752
   - S4FND102
   - S4CORE102

Or your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 1809:

- SAP_ABA75D
- SAP_BASIS753
- SAP_UI753
- SAP_BW753
- S4FND103
- S4CORE103

Or your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 1909:

- SAP_ABA75E
- SAP_BASIS754
- SAP_UI754
- SAP_BW754
- S4FND104
- S4CORE104

Or your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 2020:

- SAP_ABA75F
- SAP_BASIS755
- SAP_UI755
- SAP_BW755
- S4FND105
- S4CORE105

Or your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 2021:

- SAP_ABA75G
- SAP_BASIS756
- SAP_UI756
- SAP_BW756
- S4FND106
- S4CORE106

Or your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 2022:

- SAP_ABA75H
- SAP_BASIS757
- SAP_UI757
- SAP_BW756
- S4FND107
- S4CORE107

2. Support packages
   Your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 1709:
   - SAP_ABA 75C minimum SP01, SAPK-75C01INSAPABA

- SAP_BASIS 752 minimum SP01, SAPK-75201INSAPBASIS
- SAP_UI 752 minimum SP02, SAPK-75202INSAPUI
- SAP_BW 752 minimum SP01, SAPK-75201INSAPBW
- S4FND 102 minimum SP01, SAPK-10201INS4FND
- S4CORE 102 minimum SP01, SAPK-10201INS4CORE

Or your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 1809 (minimum initial shipment):

- SAP_ABA 75D minimum SP00
- SAP_BASIS 753 minimum SP00
- SAP_UI 753 minimum SP02, SAPK-75302INSAPUI
- SAP_BW 753 minimum SP00
- S4FND 103 minimum SP00
- S4CORE 103 minimum SP00

Or your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 1909 (minimum initial shipment):

- SAP_ABA 75E minimum SP00
- SAP_BASIS 754 minimum SP00
- SAP_UI 754 minimum SP01, SAPK-75401INSAPUI
- SAP_BW 754 minimum SP00
- S4FND 104 minimum SP00
- S4CORE 104 minimum SP00

Or your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 2020 (minimum initial shipment):

- SAP_ABA 75F minimum SP00
- SAP_BASIS 755 minimum SP00
- SAP_UI 755 minimum SP01, SAPK-75501INSAPUI
- SAP_BW 755 minimum SP00
- S4FND 105 minimum SP00
- S4CORE 105 minimum SP00

Or your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 2021 (minimum initial shipment):

- SAP_ABA 75G minimum SP00
- SAP_BASIS 756 minimum SP00
- SAP_UI 756 minimum SP01, SAPK-75601INSAPUI
- SAP_BW 756 minimum SP00
- S4FND 106 minimum SP00
- S4CORE 106 minimum SP00

Or your system contains the following components if you are deploying it in the same instance as SAP S/4HANA 2022 (minimum initial shipment):

- SAP_ABA 75H minimum SP00
- SAP_BASIS 757 minimum SP00
- SAP_UI 757 minimum SP01, SAPK-75601INSAPUI
- SAP_BW 757 minimum SP00

- S4FND 107 minimum SP00
- S4CORE 107 minimum SP00

3. You have imported the latest SPAM/SAINT update (if required).
4. Import the latest R3trans and tp.

Option 3: Deploying it in the same instance as BW/4HANA

1. Components
   Your system contains the following components if you are deploying it in the same instance as BW/4HANA 1.0 (minimum SP07):
   - SAP_ABA75A
   - SAP_BASIS 750
   - SAP_UI752
   - DW4CORE100

   Or your system contains the following components if you are deploying it in the same instance as BW/4HANA 2.0 (minimum initial shipment):
   - SAP_ABA75D
   - SAP_BASIS 753
   - SAP_UI753
   - DW4CORE200

   Or your system contains the following components if you are deploying it in the same instance as BW/4HANA 2021 (minimum initial shipment):
   - SAP_ABA75G
   - SAP_BASIS 756
   - SAP_UI756
   - DW4CORE300
2. Support packages
   Your system contains the following components if you are deploying it in the same instance as BW/4HANA 1.0 (minimum SP07):
   - SAP_ABA 75A minimum SP10, SAPK-75A10INSAPABA
   - SAP_BASIS 750 minimum SP10, SAPK-75010INSAPBASIS
   - SAP_UI 752 minimum SP02, SAPK-75202INSAPUI
   - DW4CORE 100 minimum SP07, SAPK-10007INDW4CORE

   Or your system contains the following components if you are deploying it in the same instance as BW/4HANA 2.0 (minimum initial shipment):
   - SAP_ABA 75D minimum SP01, SAPK-75D01INSAPABA
   - SAP_BASIS 753 minimum SP01, SAPK-75301INSAPBASIS
   - SAP_UI 753 minimum SP01, SAPK-75301INSAPUI
   - DW4CORE 200 minimum SP00

   Or your system contains the following components if you are deploying it in the same instance as BW/4HANA 2021 (minimum initial shipment):
   - SAP_ABA 75G minimum SP00
   - SAP_BASIS 756 minimum SP00
   - SAP_UI 756 minimum SP00
   - DW4CORE 300 minimum SP00
3. You have imported the latest SPAM/SAINT update (if required).

4. Import the latest R3trans and tp.

Procedure

1. Log on as one of the following users:
   - <sid>adm in UNIX
   - <SID>OFR in AS/400
   - <SID>adm in Windows NT
2. Import the *.PAT file from the installation DVD for SAP Profitability and Performance Management 3.0 (material number: 51052873) or downloaded the software files into the directory <DIR_EPS_ROOT>/in (usually /usr/sap/trans/EPS/in) of your SAP system.

Related Information

SAP Support Portal

2.2.3 Installation

Context

Steps to install the software:

Procedure

1. Log on to your SAP system in client 000 as a user with SAP_ALL rights.
2. Start the installation.

2.2.4 Post-Installation Steps

You have to perform manual steps after a successful installation of SAP Profitability and Performance Management 3.0 or a support package update to ensure that the application works in the live client where the system is activated.

To do this, follow the instructions provided in the following sections in the given order:

- ABAP Steps [page 12]

- HANA Steps [page 30]
- Default Environment Steps [page 35]

2.2.4.1 ABAP Steps

The ABAP steps must be executed in the SAP Profitability and Performance Management client or SAP Business Warehouse client.

The ABAP steps you have to carry out depend on your individual situation:

- For a newly installed SAP Profitability and Performance Management 3.0 system, you must perform the steps from Support Package 01 up to the latest patch level installed in the system.
- For a Support Package update, make sure that you perform the steps mentioned in the Support Packages that have just been implemented.

> **Example**
>
> If you were originally in SP 07 and then move to SP 19, you must perform all the steps required for SP08, SP09, SP10, SP11, SP12, SP13, SP14, SP15, SP16, SP17, SP18 and SP19.

The sections below list the ABAP steps required for each support package.

Steps for SP14 to SP22

No additional ABAP steps for SP14, SP15, SP16, SP17, SP18, SP19, SP20, SP21 and SP22 are required aside from Activate All NXI Services [page 19].

Steps for SP13

1. Set Namespaces [page 14]
2. Activate All NXI Services [page 19]

Steps for SP12

1. Activate All NXI Services [page 19]
2. Assign SAP System Alias to NXI Services [page 19]
3. Activate Query Element Variables [page 30]
4. Implement Important SAP Notes [page 25]

Steps for SP11

No additional ABAP steps for SP11 are required aside from Activate All NXI Services [page 19].

Steps for SP10

Adjust Maximum Record Length (RADTBCON viewlen) [page 21]

Steps for SP09

No additional ABAP steps for SP09 are required aside from Activate All NXI Services [page 19].

Steps for SP08

Implement Important SAP Notes [page 25]

Steps for SP07

1. Configure Virus Scan Interface [page 22]
2. Assign SAP System Alias to NXI Services [page 19]

Steps for SP06

No additional ABAP steps for SP06 are required aside from Activate All NXI Services [page 19].

Steps for SP05

1. Set Number Range Intervals [page 18]
2. Assign SAP System Alias to NXI Services [page 19]
3. Migrate Models [page 23]
4. Maintain User Groups [page 23]
5. Implement Important SAP Notes [page 25]

Steps for SP04

No additional ABAP steps for S004 are required aside from Activate All NXI Services [page 19].

Steps for SP03

Implement Important SAP Notes [page 25]

Steps for SP02

1. Adjust RSADMINA Table (Column TPBWMANDTRFC) [page 27]
2. Activate Query Element Variables [page 30]
3. Set Up Dual Control for Usage in Process Execution (Optional) [page 24]
4. Implement Important SAP Notes [page 25]

Steps for SP01

1. Set Namespaces [page 14]
2. Activate All NXI Services [page 19]
3. Create Local SAP System Alias [page 16]
4. Establish Database Connection [page 15]
5. Set Number Range Intervals [page 18]
6. Adjust Maximum Record Length (RADTBCON tablen) [page 22]
7. Create Tool BW Client [page 26]
8. Create SAP HANA Source System [page 28]
9. Activate Deep HANA Integration [page 17]
10. Activate Planning Function Type [page 29]
11. Create Semantic Object [page 16]
12. Implement Important SAP Notes [page 25]

2.2.4.1.1 In SAP Profitability and Performance Management's client

2.2.4.1.1.1 Set Namespaces

This step is a cross-client activity that can be performed in any active client within the system where SAP Profitability and Performance Management is installed. In SAP Profitability and Performance Management there are certain namespaces that must be set to "modifiable" up until SP13. From SP14 onwards this is no longer necessary and can be skipped.

Procedure

1. Set namespace /NXI/ and its corresponding BW generation namespace /B108/ to changeable:
    1. Call up transaction *SE03* > *Administration* folder and choose *Set System Change Option*.
    2. Within the *Namespace/Name Range* box, locate the namespace with prefix "/B108/" and set it to *Modifiable*.
    3. Within the *Namespace/Name Range* box, locate the namespace with prefix "/BIC/" and set it to *Modifiable*.
    4. Within the *Namespace/Name Range* box, locate the namespace/name range "Customer name range" and set it to *Modifiable*.
    5. Within the *Software Component* box, locate the software component with the technical name "HOME" and set it to *Modifiable*.
    6. Within the *Software Component* box, locate the software component with the technical name "LOCAL" and set it to *Modifiable*.
    7. Save your entries.
2. Set /B108/ as the BW generation namespace for /NXI/ namespace:
    1. Call up transaction `SE16`.
    2. Input table `RSPSPACE`.
    3. Choose *Create*. An empty line appears in the *BW Partner Namespaces* box.
    4. Enter "/NXI/" in the `NAMESPACE` field, "/B108/" in the `NSPACEGEN` (Namespace for generated objects) field, "BW" in the `BWAPPL` (BW Application) field and enter "X" under `ACTIVE` (Flag: Object is active/useable) .
    5. Save your entry.

> **i Note**
>
> These namespaces need to be set to modifiable in all systems of the landscape for the generation of SAP Profitability and Performance Management functions to work properly.
>
> In general, the activation of functions in the modeling environment triggers the generation of certain ABAP, BW and HANA artifacts. In the upstream systems (like quality and production systems) this happens automatically during the after-import execution of a transport.
>
> Note that even though these namespaces are set to modifiable, no changes by users in the upstream systems are possible, as long as the client is locked for changes in the `SCC4` client settings. In other words, no user would able to log in and make changes to these namespaces.

2.2.4.1.1.2 Establish Database Connection

This step is a cross-client activity that can be performed in any active client within the system where SAP Profitability and Performance Management is installed.

The database connection name has to be specified within the environment settings in SAP Profitability and Performance Management.

From SP22 onwards, you can make use of the DEFAULT database connection already available in Netweaver ABAP. You no longer need to create a DBCON database connection. All the sample contents from SP22 onwards use the DEFAULT database connection.

If you have already established the DBCON database connection for previous support packages in your environment, you can continue using them or you can change all your environments to use the DEFAULT connection.

For more information about creating database connections, see *Add a Database Connection* in the *Related Information* section below.

Related Information

Add a Database Connection

2.2.4.1.1.3 Create RFC Destination

This step is a cross-client activity that can be performed in any active client within the system where SAP Profitability and Performance Management is installed.

Use transaction `SM59` to create an RFC destination "<System_ID>CLNT<Client>" (for example, PER CLNT100, where PER is the system ID and 100 is the client on which you want to configure SAP Profitability and Performance Management functions). The user specified in this RFC destination should be assigned to the modeling user role since the system uses this user to trigger the transport after import generation in SAP Profitability and Performance Management. All authorizations as specified in the SAP Profitability and Performance Management delivered modeling role `/NXI/P1_MODELING_USER_ALL` should be assigned to the RFC connection user.

You need to do this for every client in the system that uses SAP Profitability and Performance Management.

If the RFC destination has already been created, execute the following steps to check whether the RFC connection user has the correct authorization:

1. Call transaction **`SM59`**.
2. Under *ABAP Connections*, choose the RFC destination `<SYSID>CLNT<SYSCLIENT>` (for example, `PERCLNT100`).
3. Go to the *Logon & Security* tab and check for the user assigned.
4. Call transaction **`SU01`** and enter the RFC connection user.
5. On the *Roles* tab, check that `/NXI/P1_MODELING_USER_ALL` is assigned.

To test that the connection is working, execute the following steps:

1. Call transaction **SM59**.
2. Under *ABAP Connections*, choose the RFC destination <SYSID>CLNT<SYSCLIENT> (for example, PERCLNT100).
3. Go to *Utilities* > *Test* > *Connection Test*.
4. Go to *Utilities* > *Test* > *Authorization Test*.

Related Information

Displaying, Editing, and Testing Destinations
Authorizations [page 56]

2.2.4.1.1.4 Create Local SAP System Alias

Since SAP Profitability and Performance Management or NXI services must be assigned to a local SAP Gateway named "LOCAL", it is mandatory to have this created in the system where SAP Profitability and Performance Management is being activated.

If not yet created, follow the instruction in the linked document under *Related Information* to create the local SAP Gateway.

Related Information

SAP System Alias

2.2.4.1.1.5 Create Semantic Object

Context

Semantic objects are delivered in the underlying SAP_UI component SPs and the semantic object of SAP Profitability and Performance Management will be delivered in SAP_UI 750 SP12. If your system is already patched to SAP_UI 750 SP12, the semantic object of SAP Profitability and Performance Management is automatically available.

> **i Note**
>
> If your system is on SAP_UI 750 SP10 or SAP_UI 750 SP11, you need to create the semantic object of SAP Profitability and Performance Management in every system where you want to use the SAP Fiori apps for SAP Profitability and Performance Management.

Procedure

1. Launch transaction code **/n/UI2/SEMOBJ_SAP**.
2. Switch to edit mode (ignore any popups) and choose *New Entries*.
3. Enter the data in the fields below and save your entries:
   - *Semanctic Object:* FinSrvcPerformanceManagement
   - *Semantic Object Name:* Financial Services Performance Management
   - *Applic. Component:* FS-PER
   - *Semantic Component Description:* SAP Profitability and Performance Management enables banking and insurance companies to maintain and execute complex allocation.

2.2.4.1.1.6 Activate Deep HANA Integration

Note that in SAP BW/4HANA systems, Deep HANA Integration is switched on by default. You can go to **SE11** and enter the table name `RSPLS_HDB_ACT` to see the entries. Since this is a cross-client activity, you can do this in any client within the system where SAP Profitability and Performance Management is installed. To do so, follow the procedure below.

Procedure

1. Call up transaction **SM30**.
2. Enter the maintenance view `RSPLS_HDB_ACT`.
3. Choose *Maintain*.
4. Choose *New Entries*.
5. In the *HANA Integration Active* column, select *Deep HANA Integration Active* and select the *Functn. Active* checkbox.
6. Choose *Save*.

2.2.4.1.1.7 Set Number Range Intervals

This step must be performed for every client in the system where SAP Profitability and Performance Management is used.

Before operating SAP Profitability and Performance Management, set the number range intervals for the following number range objects using transaction `SNRO`. Ensure that you enter “01” in the *No.* column (not just “1”).

For the *Process ID* object, maintaining the number range interval is optional. It is only required if you want the system to suggest the process ID automatically during the creation of the process instance.

Number Range Objects	Support Package
`/NXI/1FID`: Function ID	SP01
`/NXI/1BID`: Generated BW Objects	SP01
`/NXI/1OID`: ODS View ID	SP01
`/NXI/1CID`: Generated CDS Views	SP05
`/NXI/1PROC`: Process ID	SP15

To ensure that you understand the implications of maintaining number range intervals correctly, see the Transport [page 45] section.

> **i Note**
>
> The number range intervals listed below are reserved for the SAP sample content. To avoid duplicate ID errors, make sure that the number range intervals listed below are not used. These number range intervals were used to create the sample content in SAP systems. Make sure that the number range intervals that you set are different from the intervals listed below. The environment ID with the prefix “S” is reserved for the SAP sample content. Make sure that you do not configure or create environments starting the environment ID with the prefix “S” as first character.
>
> Number range intervals reserved for SAP Sample Content (do not use these intervals)
>
Object	From No.	To Number	Support Package
`/NXI/1FID`	00001	09999	SP01
`/NXI/1BID`	1000000	1999999	SP01
`/NXI/1OID`	10000000	19999999	SP01
`/NXI/1CID`	1000000	1999999	SP05

You can enter function IDs when you create or copy a function or environment. Modeling users can enter the identifier of the functions in the same way as they do in Customizing rather than a generated number from the configured number range interval. The system makes a suggestion based on a new reduced length number range interval (new reduced length number range object `/NXI/NFID`). The modeling user can replace this with another value, as required.

In SAP Profitability and Performance Management, the environment ID is three characters long and has to be entered manually (for example ZCA, ZFT, and so on). The version ID is also mandatory and has to be entered manually (for example 1, 2, 3, and so on). The function ID is now five characters long. A function is now uniquely identified as a combination of environment ID, version, and function ID.

For more information about number range intervals, see *Intervals* in the *Related Information* section below.

Related Information

Intervals

2.2.4.1.1.8 Activate All NXI Services

This step is a cross-client setup that must be revisited for **every** support package update activity. In SAP Profitability and Performance Management, there are specific NXI services that need to be activated before you can use applications under *Modeling*, *Execution* and *System Reports*.

Procedure

1. Call up transaction *SICF*.
2. Enter the hierarchy type “SERVICE” and service name “NXI”, and then choose *Execute* .
3. To ensure that all services under the NXI services are activated, right-click on each of these services and choose *Deactivate Service*. Then reactive the services by choosing *Activate Service*. Confirm your choice by choosing the second *Yes* button (with the tree/hierarchy icon) in the dialog box that appears.
4. Make sure that all other services under the NXI nodes have the status “Active” or are not grayed out. You can check this by expanding all NXI nodes.

2.2.4.1.1.9 Assign SAP System Alias to NXI Services

Context

The local SAP system alias created in the previous step must be assigned to all NXI services.

Procedure

1. Launch transaction code SPRO and open the SAP Reference IMG.
2. Navigate to *SAP Netweaver* > *SAP Gateway* > *OData Channel* > *Administration* > *General Settings* > *Assign SAP System Aliases to OData Service*.

   If the SAP Gateway Foundation component is SAP_GWFND 757 or higher, navigate to *ABAP Platform* > *SAP Gateway* > *Administration* > *General Settings* > *Assign SAP System Aliases to OData Service*.
3. Make entries for the service doc. identifiers listed below and ensure that you assign the SAP system alias to each of the services. If you do not have a separate gateway system, enter at least "LOCAL".

Service Doc. Identifier	Support Package
/NXI/CP1_FW_ACT_CDS_0001	SP01
/NXI/CP1_FW_ACT_SEL_CDS_0001	SP01
/NXI/CP1_FW_EVENT_CDS_0001	SP01
/NXI/CP1_FW_MOD_CDS_0001	SP01
/NXI/CP1_FW_PRCS_CDS_0001	SP01
/NXI/CP1_FW_REP_CDS_0001	SP01
/NXI/CP1_FW_RUN_CDS_0001	SP01
/NXI/CP1_FW_STAT_F_KPI_SEL_CDS_0001	SP01
/NXI/CP1_FW_TEAMS_CDS_0001	SP01
/NXI/CP1_STAT_EXEC_KPI_SEL_CDS_0001	SP01
/NXI/P1_AUDITTRAIL_SRV_0001	SP01
/NXI/P1_FW_ENV_VER_CDS_0001	SP01
/NXI/P1_FW_STAT_F_SEL_SER_0001	SP01
/NXI/P1_PROCESSFLOW_SERVICE_0001	SP01
/NXI/P1_N_MOD_SRV_0001	SP05
/NXI/P1_N_APP_ANA_SRV_0001	SP07
/NXI/P1_N_APP_META_SRV_0001	SP07
/NXI/P1_N_APP_PRO_SRV_0001	SP07
/NXI/P1_N_APP_REP_SRV_0001	SP07
/NXI/P1_N_APP_SYS_SRV_0001	SP07
/NXI/P1_N_APP_DATA_SRV_0001	SP12
/NXI/P1_N_APP_VH_SRV_0001	SP12

2.2.4.1.1.10 Publish OData Services

To integrate the processing service, you need to publish the service group following the steps below:

1. Go to transaction `/n/iwfnd/v4_admin`.
2. On the *SAP Gateway Service Administration* screen, choose *Publish Service Group* in the header menu.
3. On the *SAP Gateway Service Publishing* screen, set the *System Alias* field to “LOCAL”.
4. Choose *Get Service Groups*.
5. The system lists all unpublished service groups. Select the `/NXI/P1_SERVICES` group.
6. Choose *Publish Service Group* and then, choose *OK*.
7. Add a new customizing request.
8. Go back to the *SAP Gateway Service Administration* screen. In the *Available Services* section, you can now see the service group `/NXI/P1_SERVICES`.
9. Select your service and choose *Service Test* > *Gateway Client*, then continue with testing the service.

2.2.4.1.1.11 Adjust Maximum Record Length (RADTBCON viewlen)

Context

This step is a cross-client activity that can be performed in any active client within the system where SAP Profitability and Performance Management is installed.

> **i Note**
>
> If your system is on SAP_BASIS version 753 (e.g. BW/4HANA 2.0 or S/4HANA 1909) and above, you can skip this step.

If you intend to import the sample content or use SAP Profitability and Performance Management with a record length greater than 4030, execute the following steps:

Procedure

1. Call up transaction `SE80`.
2. Choose *Environment* > *Repository Information System* > *Program Library* > *Programs*.
3. Enter name “RADTBCON”.
4. Go to lines 30-40 and search for the original entry data: `data: viewlen type dd03p-intlen value '4096',`

5. Edit this line and increase the value as follows: `data: viewlen type dd03p-intlen value '15000',`
6. Save your entries.
7. Activate the program.

2.2.4.1.1.12 Adjust Maximum Record Length (RADTBCON tablen)

Context

> **i Note**
>
> If your system is on SAP_BASIS version 753 (e.g. BW/4HANA 2.0 or S/4HANA 1909) and above, you can skip this step.

If you intend to import the Sample Content or use SAP Profitability and Performance Management with a record length greater than 4030, execute the following steps:

Procedure

1. Call up transaction `SE80`.
2. Choose *Environment* > *Repository Information System* > *Program Library* > *Programs*.
3. Enter name “RADTBCON”.
4. Go to lines 30-40 and search for the original entry data: `tablen like dd03p-intlen value '4030',`
5. Edit this line and increase the value. For example, as follows: `data: tablen like dd03p-intlen value '15000',`
6. Save your entries.
7. Activate the program.

2.2.4.1.1.13 Configure Virus Scan Interface

All changing calls to the SAP Gateway (such as saving changes to an environment) require the configuration of a virus scan interface.

Contact your SAP security expert to create a virus scan profile by executing transaction code `VSCANPROFILE`. For more information about the steps required, see the *Related Information* section.

Related Information

Setting Up a Virus Scan Provider (ABAP)

2.2.4.1.1.14 Maintain User Groups

Context

To enable individual users to use *Processes Manage & Deploy*, you need to assign them to a user group. To create a user group, proceed as follows:

Procedure

1. Go to *Maintain User Group* using the transaction `SUGR`.
2. On the *User Group* field, enter “PAPM”.
3. Choose *Create User Group* or `F8`.
4. Enter the following text: “PAPM generic user group for Manage and Deploy Process”.
5. Choose *Save* (`Ctrl` + `S`)

Related Information

Authorizations [page 56]

2.2.4.1.1.15 Migrate Models

Context

Valid when patching to SAP Profitability and Performance Management 3.0 SP04 onwards:

An enhanced UI for models with sync and mapping functionalities is available. Run the migration report `/NXI/P1_MIGRATE_MODELS` to activate functions configured with the old UI.

The steps to execute the report are described below.

Procedure

1. Go to transaction **SE38**.
2. Provide program name as `/NXI/P1_MIGRATE_MODELS`.
3. Press F8 to execute the programm.
4. In the selection screen, leave the environment, version and function type blank.
5. Press F8 to execute the report.

2.2.4.1.1.16 Set Up Dual Control for Usage in Process Execution (Optional)

If you intend to use the Dual Control functionality (with performers and reviewers) including email notification when you run processes or activities, you need to set up the basic workflow and perform the SAPconnect administration or check that this has already been done.

Related Information

- For more information about the basic workflow setup, see Automatic Workflow Customizing (section *Activities*).
- For more information about the SAPconnect administration, see External Sending in the SAP System.

2.2.4.1.1.17 Implement Important SAP Notes

Context

Overview of Important SAP Notes

Number of SAP Note	Issue to Be Solved	Comments
3127975	Visual Modeler Enhancements and New Features	This SAP Note contains enhancements and features including the release of the *Editable Visual Modeler*. **i Note** An additional reference for the new features of the Visual Modeler is SAP Note 3132403 (Expert and Neo User Interface Overview). This SAP Note contains the whitepaper that you can use as a reference to be familiarized with the similarities and differences of both Expert User Interface and NEO User Interface (Visual Modeler).
2608699	Selection screen issue in FPM/ABAP Webdynpro (SAP_UI)	You can skip this if you have SAP_UI 750 SP 12 on your system.
2548134	Context menu icon issue in ABAP Webdynpro (SAP_UI)	You can skip this if you have SAP_UI 750 SP 11 on your system.
2603503	Open ODS view issue in NetWeaver BW (SAP_BW)	You can skip this if you have SAP_BW 750 SP 12 on your system.
2541603	Incorrectly scaled values in analytical chart UIBB in NetWeaver BW (SAP_BW) or BW/4HANA	You can skip this if you have SAP_BW 750 SP 10 or BW/4HANA SP07 on your system.
2667234	"Dump in Analytical Chart UIBB" issue in NetWeaver BW (SAP_BW) or BW/4HANA	You can skip this if you have SAP_BW 750 SP 13 or BW/4HANA SP10 on your system.
2678636	"BICS Grid: Hidden Key Figures Cannot be Added to Chart" issue in NetWeaver BW (SAP_BW) or BW/4HANA	You can skip this if you have SAP_BW 750 SP 13 or BW/ 4HANA SP10 on your system.
2680631	"Dialog Component: Text for Cancel Button is not applied" issue in FPM/ABAP Webdynpro (SAP_UI)	You can skip this if you have SAP_UI 750 SP 14 on your system.
2679929	"APC for FPM Events: Void Space at the Page Bottom" issue in FPM/ABAP Webdynpro (SAP_UI)	You can skip this if you have SAP_UI 750 SP 14 on your system.

Number of SAP Note	Issue to Be Solved	Comments
2625337	“APC for FPM Events causes Messages to disappear” issue in FPM/ABAP Webdynpro (SAP_UI)	You can skip this if you have SAP_UI 750 SP 12 on your system.
2667520	“BICS Grid: Query Initialization” issue in NetWeaver BW (SAP_BW) or BW/4HANA	You can skip this if you have SAP_BW 750 SP 13 or BW/4HANA SP10 on your system.
2680398	“Chart UIBB: Personalized Chart Type is not persisted for Dynamic Feeder” issue in FPM/ABAP Webdynpro (SAP_UI)	You can skip this if you have SAP_UI 750 SP 14 on your system.
2597993	“UIBB Analytical Chart: Incorrect Chart Type” issue in FPM/ ABAP Webdynpro (SAP_UI)	You can skip this if you have SAP_UI 750 SP 12 on your system.
2662219	“FPM Analytics UIBB: Enabling of Hierarchy (Context Menu)” issue in NetWeaver BW (SAP_BW)	You can skip this if you have SAP_BW 750 SP14 or BW/4HANA SP12 on your system.
2727684	“BICS Grid: Value help for new line in empty grid” issue in NetWeaver BW (SAP_BW) or BW/4HANA	You can skip this if you have SAP_BW 750 SP14 or BW/4HANA SP12 on your system.
2810133	“BICS Grid: Update of cells does not accept new values” issue in NetWeaver BW (SAP_BW) or BW/4HANA	You can skip this if you have SAP_BW 750 SP16 or BW/4HANA 1.0 SP14 or BW/4HANA 2.0 SP02 on your system.
2613374	“ABAP BICS: Bookmarks cannot be used for queries with universal display hierarchy groups” issue in NetWeaver BW (SAP_BW) or BW/4HANA	You can skip this if you have SAP_BW 750 SP12 or BW/4HANA 1.0 SP13 on your system.

2.2.4.1.2 In SAP Business Warehouse’s client

2.2.4.1.2.1 Create Tool BW Client

Context

To integrate SAP Profitability and Performance Management with BW, you can activate the BW client as follows:

1. In a different client than SAP Profitability and Performance Management (for example, the BW is in client 100; SAP Profitability and Performance Management is in client 200, but in the same system)
2. In the same client as SAP Profitability and Performance Management (for example, BW and SAP Profitability and Performance Management are both in client 200).

Configure the Tool BW client as follows:

Procedure

1. Create a new client (note that a BW client cannot be set up in client 000) or use the existing client as the Tool BW client and assign a logical system to it using transaction SCC4.
2. Create a background user in the BW client using transaction SU01.
3. Assign the following roles and profiles to the background user:
   - S_BI-WHM_RFC (profile)
   - S_BI-WX_RFC (profile)
4. Create an RFC destination using transaction SM59. Use the same name as the logical system that is assigned to the BW client.
   - *Technical Settings* tab page: No settings required.
   - Logon and Security tab page: Enter the following data:
     - Client of the BW client
     - Background user
     - Assigned password
5. Call up transaction SE16.
6. Enter table name “RSADMINA”
7. Create a new entry.
8. Make the following settings:
   - BW_USER: Enter the background user created above.
   - BWMANDT: Enter the BW client ID.
   - BWMANDTRFC: Enter the name of the RFC destination created above.
   - Leave all other fields unchanged.
9. Initialize the BW as follows:
   a. Call up transaction RSA1.

   When you start RSA1 for the first time, you need to make some initial settings. When you do this, the system displays some message dialog boxes. Confirm all of these.

2.2.4.1.2.2 Adjust RSADMINA Table (Column TPBWMANDTRFC)

Context

In the live client for SAP Profitability and Performance Management, assign the BW RFC destination to the column TPBMANDTRFC in the table RSADMINA.

Procedure

1. Call up transaction `SE16`.
2. Enter table name “RSADMINA”.
3. Create a new entry.
4. Enter the name of the RFC destination created above in the field `TPBWMANDTRFC`. Leave all other fields unchanged.
5. Call up transaction `RSA1` to initialize the BW.
6. When you start the transaction for the first time, you need to make some initial settings. When you do this, the system displays some message dialog boxes. Confirm all of these.

2.2.4.1.2.3 Create SAP HANA Source System

There are two ways to create the source system: via BW Client or via SAP HANA Studio.

Adding Source System via BW Client

1. In the BW client of the system, launch transaction code `RSA1`.
   If the *Documentation on Modeling* area appears, choose which ever is your preference.
2. In the *Modeling* section select “Source Systems”.
3. Right-click on the *Source System* window and choose *Create*.
4. Choose *Local SAP HANA Database*.
5. In the *Create Source System* window, fill the *Logical System Name* and *Source System Name* fields with the schema name <your SAP SID schema> (for example “SAPIAD”). Choose *Continue*.
6. Select the connection type “Local SAP HANA Database Schema”.
7. Enter the schema name in the format <your SAP SID schema> (for example “SAPIAD”). Choose *OK*.
8. Repeat steps 3 to 7 for schema _SYS_BIC.

Adding Source System via SAP HANA Studio

1. Create a SAP HANA source system as per the steps described under *SAP HANA Source System* (see the *Related Links* section below) for the schemas <your SAP SID schema> (for example “SAPIAD”) and _SYS_BIC.
2. Open *SAP HANA Studio* > *BW Modeling Perspective* > *Data Sources*.
3. Choose *New Source System*.
4. Choose *Local SAP HANA Database*.
5. In the *Create Source System* window, fill the *Logical System Name* and *Source System Name* fields with the schema name <your SAP SID schema> (for example “SAPIAD”). Choose *Continue*.

6. Select the connection type “Local SAP HANA Database Schema”.
7. Enter the schema name in the format <your SAP SAP SID schema> (for example “SAPIAD”). Choose *OK*.
8. Repeat steps 3 to 7 for schema _SYS_BIC.

> **i Note**
>
> If you configure the *Model Table* functions and *Model View* functions in the environments of SAP Profitability and Performance Management to point to sources from other schemas, you also must carry out the steps listed above for every schema.

Related Information

SAP HANA Source System

2.2.4.1.2.4 Activate Planning Function Type

This activity is to be performed in the client where BW has been activated. To do this, follow the procedure below.

Procedure

1. In the tool BW client, call up transaction `RSA1`.
2. In the window on the left, choose *BI Content*.
3. In the same window, choose *Object Types*.
4. In the second window, expand the *Planning* folder.
5. In the *Planning* folder, expand the *Function Type for Planning (PLST)* node.
6. Choose *Select Objects*.
7. A dialog box appears with the list of object names. Select the object `/NXI/P1_PLANNING_FT`- Performance Management Planning Function Type.
8. Choose *Transfer Selections*.

   The information message “Choose one or more source systems” appears.
9. Choose *Confirm*.
10. The system shows the dialog box *Select Source Systems*.
11. Select the *BW* checkbox.
12. Choose *OK/Continue*.
13. The object appears in the window on the right (content activation pane). Ignore any error messages in the collection log.
14. Choose *Install*.

15. Planning function type `/NXI/P1_PLANNING_FT` is now activated.

2.2.4.1.2.5 Activate Query Element Variables

This activity is to be performed in the client where BW has been activated. To do this, follow the procedure below.

Procedure

1. In the tool BW client, call up transaction `RSA1`.
2. In the screen area on the left, choose *BI Content*.
3. In the same screen area, choose *Object Types*.
4. In the screen area in the middle, expand the *Query Elements* folder.
5. In the *Query Elements* folder, expand the *Variable (ELEM.VAR)* node.
6. Choose *Select Objects*.
7. A dialog box appears with the list of object names. Choose *Filter* and set filter criteria for the object name.
8. Choose *Define Values*, enter **`/NXI/*`** and choose *Execute*.
9. Choose *Transfer Selections*.

   The message “Choose one or more source systems” appears.
10. Choose *Confirm*.
11. The *Select Source Systems* dialog box appears.
12. Select the *BW* checkbox.
13. Choose *OK/Continue*.
14. The object appears in the content activation pane on the right-hand side of the screen. Ignore any error messages in the collection log.
15. Choose *Install*.

    Query elements are now activated.

2.2.4.2 HANA Steps

The steps in this section have to be executed in SAP HANA studio.

The HANA steps you have to carry out depend on your individual situation:

- It is mandatory for a newly installed SAP Profitability and Performance Management 3.0 system to perform the steps from Support Package 01 up to the latest patch level installed in the system.
- For a Support Package update, make sure to perform the steps mentioned in the Support Packages that were just implemented.

> **Example**
>
> When you were originally in SP 07 and moved to SP19, you must perform all the necessary steps for SP08, SP09, SP10, SP11, SP12, SP13, SP14, SP15, SP16, SP17, SP18 and SP19.

In the sections below, you find the necessary HANA steps for each Support Package.

Steps for SP06 to SP22

No additional HANA Steps for SP06, SP07, SP08, SP09, SP10, SP11, SP12, SP13, SP14, SP15, SP16, SP17, SP18, SP19, SP20, SP21 and SP22.

Steps for SP05

Install SAP HANA Automated Predictive Library for Machine Learning (Optional) [page 35]

Steps for SP02 to SP04

No additional HANA Steps for SP02, SP03 and SP04

Steps for SP01

1. Create NXI Schema in SAP HANA Studio [page 31]
2. Grant Full Authorization to SAP DB Connection User in SAP HANA Studio [page 32]
3. Grant SELECT and EXECUTE Authorizations to _SYS_REPO User in SAP HANA Studio [page 32]
4. Assign System Privileges to SAP DB Connection User (Optional) [page 33]
5. Adjust SAP HANA DB Parameters [page 34]
6. Maintain Schema Mapping for NXI Schema [page 34]

2.2.4.2.1 Create NXI Schema in SAP HANA Studio

Procedure

1. Log on to the SAP HANA database of your system within the SAP HANA Studio.
2. Open the SQL console.
3. Execute the statement “CREATE SCHEMA NXI;” to create the NXI schema.

   For more information about executing statements in the SQL console of SAP HANA Studio, see *Execute SQL Statements in SAP HANA Studio* in the *Related Information* section below.

Related Information

Execute SQL Statements in SAP HANA Studio

2.2.4.2.2 Grant Full Authorization to SAP DB Connection User in SAP HANA Studio

Procedure

1. Log on to the SAP HANA database of your system within SAP HANA Studio.
2. In the security folder, open the database connection user (database connection user maintained while creating the database connection DBCON).
3. Go to the *Object privileges* tab.

   For more information about object privileges, see *Object Privileges* in the *Related Information* section below.
4. Choose *Add*.
5. Enter the schema **NXI**.
6. Select all the checkboxes in the *Privileges for 'NXI'* box.
7. Deploy (F8).
8. Repeat the steps above to grant the SAP DB Connection user authorization for the schema `_SYS_BIC`.

Related Information

Object Privileges

2.2.4.2.3 Grant SELECT and EXECUTE Authorizations to _SYS_REPO User in SAP HANA Studio

Procedure

1. Log on to the SAP HANA database of your system within SAP HANA Studio.
2. In the security folder, open the `_SYS_REPO` user.
3. Go to the *Object Privileges* tab.
4. Choose *Add*.
5. Enter the schema **NXI**.
6. Select at least the “SELECT”, “SELECT CDS METADATA”, SELECT METADATA and“EXECUTE” checkboxes in the *Privileges for '_SYS_REPO'* box.

7. Deploy (F8).
8. Repeat the steps above to grant the `_SYS_REPO` user authorization for the default SAP system schema (usually the database connection user maintained while creating the database connection DBCON).
9. If you also intend to access tables or views from other schemas in the *Model View* function, you need to grant the same privileges to the `_SYS_REPO` user for those schemas.

2.2.4.2.4 Assign System Privileges to SAP DB Connection User (Optional)

Context

Grant the following system privileges to the SAP DB connection user in the SAP HANA database if you intend to use the following:

1. A virtual table or/view using the HANA SDA function type in the model view
   - **`CATALOG READ`**
   - **`CREATE REMOTE SOURCE`**
   - **`DATA ADMIN`**
2. File Adapter function
   - **`IMPORT`**
   - **`EXPORT`**
3. SAP HANA R Script function type in the remote function adapter
   - **`CREATE R SCRIPT`**

Procedure

1. Log on to the SAP HANA database of your system within SAP HANA Studio.
2. In the *Security* folder, open the database connection user (database connection user maintained while creating the database connection DBCON).
3. Go to the *System Privileges* tab.
4. Choose *Add*.
5. Enter the following system privileges:
   - **`CATALOG READ`**
   - **`CREATE REMOTE SOURCE`**
   - **`DATA ADMIN`**
   - **`IMPORT`**
   - **`EXPORT`**
   - **`CREATE R SCRIPT`**

6. Deploy (F8).

2.2.4.2.5 Adjust SAP HANA DB Parameters

Context

If you intend to use the upload/download function of the *File Adapter* function, you need to adjust the following parameters in the SAP HANA database:

Procedure

1. Log on to the SAP HANA database of your system within the SAP HANA studio.
2. Choose the system.
3. Go to the *Configuration* tab.
4. Open the node *indexserver.ini*.
5. Open the node *[]import_export*.
6. Set `enable_csv_import_path_filter` to “true”.
7. Set `csv_import_path_filter` to the application server directory to which users can import files. (for example, */usr/sap/trans/hana*)

2.2.4.2.6 Maintain Schema Mapping for NXI Schema

Procedure

1. Log on to the SAP HANA database of your system within the SAP HANA studio.
2. In the *SAP HANA Modeler* perspective, go to *Help* in the menu bar and select *Quick View*.
3. Choose *Schema Mapping*.
4. Add a new schema mapping entry in this table with authoring schema name `NXIAUTH` and physical schema name `NXI`.
5. Add a new schema mapping entry in this table with authoring schema name `SYSBIC` and physical schema name `_SYS_BIC`.

2.2.4.2.7 Install SAP HANA Automated Predictive Library for Machine Learning (Optional)

If you intend to use the function *Machine Learning*, you need to install SAP HANA Automated Predictive Library (APL) 1904 as the minimum version requirement in the SAP HANA database.

Follow the procedure below to grant mandatory roles for using the *Machine Learning* function to SAP DB Connection user in SAP HANA Studio:

1. Log on to the SAP HANA database of your system within SAP HANA Studio.
2. In the security folder, open the database connection user (database connection user maintained while creating the database connection DBCON).
3. Go to the *Granted Roles* tab.
4. Choose *Add* and assign the following roles:
   - `sap.pa.apl.base.roles::APL_EXECUTE`
   - `AFL__SYS_AFL_APL_AREA_EXECUTE`
   - `AFLPM_CREATOR_ERASER_EXECUTE`

   > **i Note**
   >
   > If you do not assign these roles, you might encounter insufficient privilege issues.
5. Choose the *Ok* button.

Related Information

SAP HANA Automated Predictive Library

2.2.4.3 Default Environment Steps

Context

The steps in this section have to be executed in SAP NetWeaver. This has to be done for every client in the system where SAP Profitability and Performance Management will be used.

Procedure

1. Ensure that all previous post installation tasks are completed.

2. If you had set up the target client by copying client 000 after installation or upgrade to SAP Profitability and Performance Management 3.0 using any of the `SAP_CUST`-based profiles, the default SAP environment is already copied over from client 000. You can skip the next step and go to step 4.
3. However, if the target client already existed before installation of or upgrade to SAP Profitability and Performance Management 3.0 or if the client was created without a client copy from 000 using a `SAP_CUST`-based profile, execute the following steps:
    1. In the target client, launch transaction `SCC1`.
    2. Specify the source client 000.
    3. Enter `/NXI/R3_SP04_DEF` as the transport request. Select the *Including Request Subtasks* checkbox.

        > **i Note**
        >
        > Perform this step only if it has not been done previously.

    4. Choose *Start Immediately* or *Schedule in Background*. Confirm any popup windows by choosing *Yes/OK* . This copies the default SAP environment and sample content environments to the target client. You can ignore any errors or warnings that appear in the log for `SCC1` execution.
4. Launch transaction `/n/NXI/P1_MODEL` and check under the *Sample Content* node if the delivered SAP default environment *Environment Template for Default Settings* exists. If it does not exist, please repeat all previous steps.
5. Launch transaction `SE38`, enter program `/NXI/P1_GENERATE_SQLFUNCTIONS` and choose *Execute*. Choose *Execute* again with the default input parameters. This results in successful log messages.
6. If you intend to use the *Machine Learning* function (transaction `SE38`), enter program `/NXI/P1_GENERATE_SQLFUNCTIONS` and choose *Execute*. Enter the Include as `/NXI/P1_GENERATE_SQLMLWRP` and choose *Execute* again.

2.2.5 Calculation Workbook Adapter Setup

2.2.5.1 Prerequisites

2.2.5.1.1 Setting Up SSL on Application Server ABAP

A direct communication between the SAP ABAP system and SAP BTP is required to successfully call the Calculation Workbook API. Therefore, you need to enable the SAP system to send an https request as an anonymous client via SSL to a public service on SAP BTP.

Procedure

Perform sections 4 to 7 of SAP Note 510007 which contain the following steps:

- Sections 4 and 5: Creating SSL Client PSEs for SAP WebAS through transaction STRUST
- Section 6: Customizing available TLS cipher suites

- Section 7: Customizing available TLS protocol versions (how to enable TLSv1.2)

2.2.5.1.2 Check Access to SAP BTP Cockpit

Ensure an established SAP BTP Cockpit connection before you proceed with the next steps. In case the result of the connection test failed, contact your system administrator to expose the SAP system where SAP Profitability and Performance Management 3.0 is activated to access the external network.

Procedure

1. In the SAP system and client where SAP Profitability and Performance Management 3.0 is activated, enter transaction code `SM59`.
2. Choose *Create*.
3. Configure the *Technical Setting* tab as follows:
   - *RFC Destination Name* = `PAPM_BTP_CHECK`
   - *Connection Type* = "G"
   - *Description 1* = "Connection Test between PaPM and BTP"
   - *Target Host* = `cockpit.eu10.hana.ondemand.com`
   - *Path Prefix* = `/cockpit`
4. Configure the *Logon & Security* tab:
   1. Choose *Do Not Use a User*.
   2. Choose *Do Not Send Logon Ticket*.
   3. Choose *Active*.
   4. Choose *ANONYM SSL Client (Anonymous)*.
5. Configure the *Special Options* tab:
   1. Choose *Timeout* > *ICM Default Timeout*.
   2. Choose *HTTP Settings* > *HTTP 1.1*.
   3. Choose *Compression Status* > *Inactive*.
   4. Choose *Comprehensive Response* > *Yes*.
   5. Choose *Accept Cookies* > *Yes (All)*.
6. Choose *Save*.
7. Choose *Connection Test*. After performing the steps above, you should see the *Status Text* = "OK".

2.2.5.2 Technical Setup of SAP Business Technology Platform

The Calculation Workbook Adapter is a feature offered by SAP Profitability and Performance Management 3.0 On-Premise, which calls the Calculation Workbook API offered by SAP Profitability and Performance Management Cloud.

Due to this integration, the administrator needs to establish a one-time technical setup step in the SAP Business Technology Platform as global account to successfully expose the Calculation Workbook API of the Cloud version to the Workbook Adapter of the On-Premise version.

2.2.5.2.1 Subscribe to SAP Profitability and Performance Management Cloud

For being able to use the Calculation Workbook API, it is important to subscribe to the SAP Profitability and Performance Management Cloud application where the Calculation Workbook API calls are being processed.

Procedure

Follow the steps described in the following blog post: SAP Profitability and Performance Management Cloud: Subscription & Decommission

2.2.5.2.2 Enable Cloud Foundry

In the created subaccount where SAP Profitability and Performance Management Cloud is subscribed, activate the Cloud Foundry as a prerequisite for the space creation.

Procedure

1. Choose *Enable Cloud Foundry* on the desired subaccount.
2. Optionally, change the *Instance Name* or *Org Name*, then choose *Create*.

2.2.5.2.3 Create a Space

The SAP Profitability and Performance Management Cloud APIs can be subscribed under a created space. You can either use an existing subaccount space or create a new subaccount as described in the following section.

Procedure

1. Under the subaccount where the SAP Profitability and Performance Management Cloud application is enabled, choose *Create Space*.
2. Provide a space name.
3. Assign space roles to the SAP BTP administrator.
4. Choose *Create*.

2.2.5.2.4 Subscribe to Default and Workbook Services

To enable the external calling of the *Workbook Adapter* functionality, you need to subscribe to the Default and Workbook services under the proper space.

Procedure

1. Under the proper global account, choose your subaccount.
2. Choose the space where the services must be activated.
3. Choose *Services* > *Service Marketplace*.
4. Search for "SAP Profitability and Performance Management".
5. Choose the option menu.
6. Choose *Create*.
7. Choose *SAP Profitability and Performance Management Cloud Service*.
8. Perform the following steps for both the "Default" and "Workbook" instance:
    1. Choose *Plan (Default or Workbook)*.
    2. Provide the *Instance Name* as follows:
        - For Default, enter "PaPM_Default_API".
        - For Workbook, enter "PaPM_Spreadsheet_API".
    3. Choose *Next*.
    4. Paste the JSON Formatted Parameters that you can find in the section below.
    5. From the copied JSON Formatted Parameters, adjust parameter `xsappname` as described in the following note.

> **i Note**
>
> - Use the following API names depending on the type of instance you create:
>   - Default: `papm-cloud-default-api`
>   - Workbook: `papm-cloud-spreadsheet-api`
> - Every subaccount should use a unique name.

6. Choose *Next*.
7. Choose *Create*.

9. Once both the Default and Workbook instance is created, choose *Instances*.
10. Check if both instances have the status “Created”.

JSON Formatted Parameters

```
{
    "xs-security": {
        "xsappname": "papm-cloud-api",
        "authorities": [
            "$XSMASTERAPPNAME.getMetaData",
            "$XSMASTERAPPNAME.getSysUserData",
            "$XSMASTERAPPNAME.getEnvironmentData",
            "$XSMASTERAPPNAME.saveEnvironmentData",
            "$XSMASTERAPPNAME.getModelingData",
            "$XSMASTERAPPNAME.saveModelingData",
            "$XSMASTERAPPNAME.activate",
            "$XSMASTERAPPNAME.run",
            "$XSMASTERAPPNAME.getHistoryData",
            "$XSMASTERAPPNAME.createHistorySnapshot",
            "$XSMASTERAPPNAME.getReportData_template",
            "$XSMASTERAPPNAME.saveReportData_template",
            "$XSMASTERAPPNAME.getVisualizeData_modeling",
            "$XSMASTERAPPNAME.saveVisualizeData_modeling",
            "$XSMASTERAPPNAME.run_calculation",
            "$XSMASTERAPPNAME.run_js",
            "$XSMASTERAPPNAME.run_python",
            "$XSMASTERAPPNAME.getLayoutData_modeling",
            "$XSMASTERAPPNAME.saveLayoutData_modeling",
            "$XSMASTERAPPNAME.getAppMonData",
            "$XSMASTERAPPNAME.getProcessMonData",
            "$XSMASTERAPPNAME.terminateRun",
            "$XSMASTERAPPNAME.getProcessData",
            "$XSMASTERAPPNAME.saveProcessData",
            "$XSMASTERAPPNAME.getVisualizeData_execution",
            "$XSMASTERAPPNAME.saveVisualizeData_execution",
            "$XSMASTERAPPNAME.getLayoutData_execution",
            "$XSMASTERAPPNAME.saveLayoutData_execution",
            "$XSMASTERAPPNAME.getReportData_report",
            "$XSMASTERAPPNAME.saveReportData_report",
            "$XSMASTERAPPNAME.getTeamData",
            "$XSMASTERAPPNAME.saveTeamData",
            "$XSMASTERAPPNAME.getConnectionData",
            "$XSMASTERAPPNAME.saveConnectionData",
            "$XSMASTERAPPNAME.importEnvironmentData",
            "$XSMASTERAPPNAME.getContentData",
            "$XSMASTERAPPNAME.exportEnvironmentData",
            "$XSMASTERAPPNAME.getDbAdminCredentials",
            "$XSMASTERAPPNAME.getDbObjects",
            "$XSMASTERAPPNAME.getTenantSettings",
           "$XSMASTERAPPNAME.saveTenantSettings",
```

```
            "$XSMASTERAPPNAME.getCustomerConfiguration",
            "$XSMASTERAPPNAME.saveCustomerConfiguration"
        ]
    }
}
```

2.2.5.2.5 Create Service Key

In order to call the API, the external caller needs to be provided with a service key.. Hence as part of this documentation, you need to create a service key for both the Default and Workbook instance.

Procedure

Perform the following steps for both the Default and Workbook instance:

1. Choose *Instances*.
2. Choose the option menu.
3. Choose *Create Service Key*.
4. Provide a *Service Key Name* as follows:
   - Default: “SK_PaPM_Default_API”
   - Workbook: “SK_PaPM_Spreadsheet_API”
5. Leave the parameter section empty.
6. Choose *Create*.

2.2.5.2.6 Provide Service Key Information to SAP Administrator

The service key information is important for the external caller to fully use the workbook calculation. This service key then must be provided to the administrator who configures the Remote Function Adapter and Connection Management Application in the On-Premise version of SAP Profitability and Performance Management.

Procedure

1. Choose *Instances*.
2. Choose *SAP Profitability and Performance Management Cloud Workbook Plan*.
3. Choose *Service Key*.
4. Make a note of the following data:

- `url`: This is the workbook calculation service end-point.
- `clientid`: This is the username that must be used to call the service.
- `clientsecret`: This is the password that must be used to call the service.
- `url`: This is the workbook token generator or the Service Key URL.

5. Provide the retrieved information to your SAP administrator.

2.2.5.3 Technical Setup of the SAP System

To set up the Workbook Adapter completely, you need to create a remote connection to communicate with the Calculation Workbook API of SAP Profitability and Performance Management Cloud. The steps in this section must be performed in a system and client where SAP Profitability and Performance Management 3.0 is activated.

2.2.5.3.1 Create Remote Connection

Configure a remote connection to communicate with the Calculation Workbook API.

This remote connection is responsible for generating a token to access the Calculation Workbook API.

Procedure

1. In the SAP system and client where SAP Profitability and Performance Management 3.0 is activated, go to transaction code `SM59`.
2. Choose *Create*.
3. Configure the *Technical Setting* tab as follows:
   - *RFC Destination Name* = `PAPM_SPREADSHEET`
   - *Connection Type*: “G”
   - *Description 1*: “Authorization endpoint client credentials grant”
   - *Target Host* = <this is the second URL captured in Provide Service Key Information to SAP Administrator [page 41], do not include the https:// >
   - *Path Prefix* = `/oauth/token`
4. Configure the *Logon & Security* tab:
   1. Choose *Basic Authentication*.
   2. *User*: <this is the `clientid` captured in Provide Service Key Information to SAP Administrator [page 41]>
   3. *Password*: <this is the `clientsecret` captured in Provide Service Key Information to SAP Administrator [page 41]>
   4. Choose *Do Not Send Logon Ticket*.
   5. Choose *Active*.

6. Choose *ANONYM SSL Client (Anonymous)*.

5. Configure the *Special Options* tab:
    1. Choose *Timeout* > *ICM Default Timeout*.
    2. Choose *HTTP Settings* > *HTTP 1.1*.
    3. Choose *Compression Status* > *Inactive*.
    4. Choose *Comprehensive Response* > *Yes*.
    5. Choose *Accept Cookies* > *Yes (All)*.
6. Save the connection.

2.2.5.3.2 Create Connection via Connection Management

The *Calculation Workbook* function does not directly communicate with the external services. Instead, it uses a connection configured in the connection management application which provides connection flexibility.

Procedure

1. Choose *SAP Menu* > *Administration* > *Manage Connections* (transaction code `/nxi/p1_conm`).
2. Create a new connection of type "Remote Function URL", then choose *OK*.
3. Provide the RFC connection created in Create Remote Connection [page 42], thus `PAPM_SPREADSHEET`.
4. Provide the following URL:

```
https://<the first URL captured in Provide Service Key Information to SAP
Administrator [page 41] which points to the Workbook Calculation API's
endpoint>/api/spreadsheet/calculate
```

> Example
>
> ```
> https://papm-spreadsheets-api.cfapps.eu10.hana.ondemand.com/api/
> spreadsheet/calculate
> ```

2.2.6 SAP Fiori Launchpad Applications

You can enable SAP Fiori launchpad applications for SAP Profitability and Performance Management by assigning the corresponding standard navigation roles:

1. The `/NXI/P1_FIORI_USER - FIORI` user is mandatory (it covers all SAP Profitability and Performance Management Fiori Catalogs)
2. All or any of the following roles (which contain the SAP Fiori catalog group and the relevant authorization):

/NXI/P1_MODELING_USER	Modeling User role
NXI/P1_MODELING_USER_ALL	Modeling user (all authorizations)
/NXI/P1_EXECUTION_USER	Execution User role
/NXI/P1_EXECUTION_USER_ALL	Execution User role (all authorizations)
/NXI/P1_EXECUTION_MANAGER	Execution Manager role
/NXI/P1_EXECUTION_MANAGER_ALL	Execution Manager role (all authorizations)
/NXI/P1_ADMIN_USER	Admin User role
/NXI/P1_ADMIN_USER_ALL	Admin User role (all authorizations)
/NXI/P1_SYSTEM_REPORT_USER	System Report User role
/NXI/P1_SYSTEM_REPORT_USER_ALL	System Report User role

To use this feature, you need to have set up the SAP Fiori system landscape for the ABAP environment. For more information, see *Setup of SAP Fiori System Landscape with ABAP Environment* in the *Related Information* section below.

Even after assigning these SAP Fiori roles to users, if the SAP Fiori catalog/tiles in a system client are missing, execute the following reports in transaction SE38 to refresh SAP Fiori caches:

1. /UI2/CHIP_SYNCHRONIZE_CACHE
2. CHIP_RESET_CATALOG_CACHE
3. /UI2/INVALIDATE_GLOBAL_CACHES

After patching to:

- SP07 or higher version:
  it is mandatory to perform the manual steps described in SAP Note 2855331 once. You can ignore this if you have already done it during lower version patching.
- SP01 up to SP06 version:
  implement SAP Note 2842941 and then follow once the manual steps described in SAP Note 2855331.

> **i Note**
>
> Note that there is a known limitation with SAP Profitability and Performance Management that the Fiori apps cannot be used via a gateway server and have to be used locally (in the system where SAP Profitability and Performance Management is installed).

Related Information

Setup of SAP Fiori System Landscape with ABAP Environment

2.2.7 Transport

- An environment is the smallest unit that you can include in a transport.
- You cannot select only sections of an environment or deltas. To ensure consistency, a whole environment has to be transported.
- Database records of Model Tables are included automatically if they are configured as transportable.
- Changes are not recorded automatically.
- To transport environments, you have to explicitly mark the environments and include them in a transport in the environment list screen.
- During the *After Import* phase of the transport import for the environment configuration in the target system, the system activates the following functions:
  - *Model Table*, *Model View*, *Model BW*, *File Adapter* and *Model RDL*
  - Functions that are added as activities of a process template
  - Functions with the processing type "Executable"
  - Functions that are a remote adapter (only the RFA types HANA R Script and HANA Stored Procedure are not activated)
  - Functions that are an input of a view using an iterative type (loop).
- The environment generation strategy for environments is client-specific. All HANA objects (tables, procedures, and so on) are generated dependent on the client to which this environment is imported. The advantage of this generation method is that you can work with multiple clients in the same system. The disadvantage is that generated objects do not have fixed names (the names are based on function identifier and client).

  > **i Note**
  >
  > You need to take this into account when you use these generated objects for custom development. Furthermore, some customer implementation configurations that refer to generated objects (for example, generated content views consumed by SAP Lumira reports) need to be adjusted after a transport or client copy. Generated objects are for usage by SAP Profitability and Performance Management internally and it is not recommended to use these generated objects directly.

- As of now, a modeling user can make changes even if the client has been set to "No changes possible". Changes in the modeling environment must be controlled by means of authorizations.
- Numbers generated from the corresponding number range objects are used as identifiers for the creation of various entities/functions. Each system client in the landscape should, therefore, have its own distinct number range interval defined during system client setup.
- Transporting environments across systems/clients where number range interval definitions for `/NXI/*` number range objects are identical could lead to serious inconsistencies. When you are setting up the landscape, you therefore need to make sure that the number range intervals do not overlap and are distinct.
- Ensure that the source system client and the target system client have their own distinct number range intervals before you transport any environments between these systems to avoid any serious inconsistencies.
- After an environment is transported, the settings of that environment in the target system are always overwritten by the settings from the source system.

3 Upgrade Information

If you are already using SAP Performance Management for Financial Services 2.0 (any of the SPs), you can upgrade to SAP Profitability and Performance Management 3.0 and continue to use your existing configurations, since these releases are cross-compatible.

> **i Note**
>
> SAP Profitability and Performance Management 3.0 can be installed and used in parallel with an existing SAP Performance Management for Financial Services 2.0. In this case, you will find the SAP Performance Management for Financial Services 2.0 transactions on the SAP Easy Access menu in the folder *Earlier Version*. Please be aware that these are two separate solutions.
>
> Existing environments that have been configured in SAP Performance Management for Financial Services 2.0 can therefore still stay in 2.0 and be used in production. New models can be configured in parallel and used in production in SAP Profitability and Performance Management 3.0. Automatic migration of SAP Performance Management for Financial Services 2.0 environments to SAP Profitability and Performance Management 3.0 environments is not possible and not supported. If you intend to move your existing SAP Performance Management for Financial Services 2.0 environment to SAP Profitability and Performance Management 3.0 environment, you will have to re-configure your environment in SAP Profitability and Performance Management 3.0.

Read the following sections in this Administrator's Guide before you start your upgrade to the latest release:

- Important SAP Notes [page 5]
- System Landscape [page 5]
- Hardware and Software Requirements [page 6]
- Preparation [page 7]

If you want to carry out a pure add-on delta upgrade (if you are upgrading from SAP Cost and Revenue Allocation for Financial Products 1.0 based on NetWeaver 750 or SAP Performance Management for Financial Services 2.0 SP02) to SAP Profitability and Performance Management 3.0, you can use transaction `SAINT` (SAP Add-On Installation Tool).

If you are upgrading from SAP Cost and Revenue Allocation for Financial Products 1.0 based on NetWeaver 740 to SAP Profitability and Performance Management 3.0, we recommend that you use Software Update Manager (*SUM*).

For SAP Profitability and Performance Management deployed on BW/4HANA or SAP S/4HANA , new configurations or changes in configuration are supported only on 3.0 version.

4 Sample Content Information

SAP Profitability and Performance Management sample content is an example configuration made available to customers to demonstrate best practices and ideas about how to model a use case using SAP Profitability and Performance Management.

For more information about the available sample contents, see Sample Content.

To install any of the standalone sample contents, see Install the Sample Content in Other Clients in Your System.

> **i Note**
>
> After the installation of or upgrade to SAP Profitability and Performance Management 3.0 SP18, sample content is available in client “000” only. The environment ID with prefix “S” is reserved for the SAP sample content. Make sure that you do not configure or create environments with an environment ID with “S” as the first character.

5 Operations Information

In addition to the business functions available using the Web Dynpro UI, SAP Profitability and Performance Management also provides some SAP GUI transactions. These can be found under *Tools* in the *SAP Easy Access* menu. These transactions are utility reports that help you with operational tasks in SAP Profitability and Performance Management. These transactions are described in the following sections.

Related Information

Delete Temporary Data [page 48]
Generate Functions/ Mass Generation [page 48]
Execute Function [page 49]

5.1 Delete Temporary Data

Use transaction `/NXI/P1_FW_DEL_TDATA` to delete temporary data.

The results of executing functions are stored temporarily (for buffering reasons) in the respective Y tables of the functions. You can run transaction `/NXI/P1_FW_DEL_TDATA` to delete this data from the Y tables. You can enter environment, version and function in this temporary data deletion transaction.

> **i** Note
>
> If you select the *Model Table Data* checkbox, the Model Table data entries are deleted as well.

5.2 Generate Functions/ Mass Generation

Usually, you configure and generate functions using the SAP Profitability and Performance Management Web Dynpro UI.

However, if you want to generate a function with a cascading effect to include functions that are used by the selected function for generation as well, use transaction `/NXI/P1_FW_ACTIVATE` - *Activate Function*.

You can use a function or an environment ID as input.

5.3 Execute Function

Generally, you configure and execute functions using the SAP Profitability and Performance Management Web Dynpro UI.

However, if you want to schedule a function in batch mode, run transaction `/NXI/P1_FW_RUN` - *Run Function*. You can also use this report if you want to execute a function from an external system.

To trigger the report in the background, choose the menu option *Execute in Background* under *More* > *Program*.

In the selection screen, you need to provide the following details:

- *Environment*
- *Version*
- *Function or Process/Activity*: For the execution run status of an activity to be reflected in the *My Activities* application, you need to specify the process as well as the activity. When you provide the process, selections and parameters maintained for that process are considered automatically.
- *Run ID* (optional): Fill in this field only if you want to provide an external run ID.
- *Package* (optional): Fill in this field only if you want to provide an external package ID.
- *Package Parameter* (optional): Fill in this field only if you want to provide parameters from an external call. You can only use parameters registered in the calculation unit of the environment version. The semicolon is used as a separator. The expected format is:
  `<first_parameter_field>=<first_parameter_value>;<second_parameter_field>=<second_parameter_value>...`

  > Example
  >
  > `I_AI_AMT=2000;I_PERIOD_TYPE=6`

- *Package Selection* (optional): Fill in this field only if you want to provide selections from an external call. You can only use selection fields registered as process selection fields in the calculation unit of the environment version or package selection fields registered in the function attributes of a function. The semicolon is used as a separator. The expected format is:
  `<first_sel_field>=(<first_sel_field>=<first_sel_value>);<second_sel_field>=(<second_sel_field>=<second_sel_value>)...`

  > Example
  >
  > ```
  > ZYEAR=(ZYEAR = '2019');LEGAL_ENTITY=(LEGAL_ENTITY='P105' OR
  > LEGAL_ENTITY='P220');POST_DATE=( POST_DATE BETWEEN '20210101' AND
  > '20211231');
  > ```

- *Synchronous Execution*: Mark this checkbox if you want to execute the function synchronously (trigger and wait until it finishes). Unmark it if you want to execute the function asynchronously (trigger and not wait for it to finish and continue to the next step).

5.4 Archiving

Archiving enables you to move data records from database tables of SAP Profitability and Performance Management into a file and store it on the system file server.

You can archive application log data, the environment history, processes and activities. The table below lists the archiving objects and the associated database table:

Data	Archiving Objects	Database Tables
Application Log Data	/NXI/ALMSG	/NXI/TP1ALMSG; /NXI/TP1AL
Process and Activities	/NXI/CUPA	/NXI/TP1CUPA; /NXI/TP1CUP
Environment History	/NXI/ENVH	/NXI/TP1ENVH

Key Features

Archiving Activities

The archiving process comprises the following activities:

- Write [page 51]: Moves the data records from specific database tables to files on the application server. The file is stored under the path *AL11* > *DIR_GLOBAL*.
- Display [page 52]: Displays data records from the archived files
- Delete [page 52]: Deletes data from the database tables
- Reload [page 53]: Retrieves the data records from the archived files back to the database tables

Each activity has been implemented in an SAP report for each data type separately. The following archiving reports are available in SAP Profitability and Performance Management 3.0:

Application Log Data

Archiving Activity	Transaction Code	Program Name	Description
Write	/NXI/P1_AR_AL_W	/NXI/P1_ALMSG_ARC_WRI	Application Log: Archiving Write Report
Display	/NXI/P1_AR_AL_D	/NXI/P1_ALMSG_ARC_DISP	Application Log: Archiving Display Program
Delete	/NXI/P1_AR_AL_DL	/NXI/P1_ALMSG_ARC_DEL	Application Log: Archiving Deletion Program
Reload	/NXI/P1_AR_AL_R	/NXI/P1_ALMSG_ARC_REL	Application Log: Reload Program

Process and Activities Data

Archiving Activity	Transaction Code	Program Name	Description
Write	/NXI/P1_AR_PA_W	/NXI/P1_CUPA_ARC_WRI	Process/Activities: Archiving Write Report

Archiving Activity	Transaction Code	Program Name	Description
Display	/NXI/P1_AR_PA_D	/NXI/P1_CUPA_ARC_DISP	Process/Activities: Archiving Display Program
Delete	/NXI/P1_AR_PA_DL	/NXI/P1_CUPA_ARC_DEL	Process/Activities: Archiving Delete Program
Reload	/NXI/P1_AR_PA_R	/NXI/P1_CUPA_ARC_REL	Process/Activities: Archiving Reload Program

Environment History Data

Transaction Code	Transaction Code	Program Name	Description
Write	/NXI/P1_AR_EH_W	/NXI/P1_ENVH_ARC_WRI	Environment History: Archiving Write Report
Display	/NXI/P1_AR_EH_D	/NXI/P1_ENVH_ARC_DISP	Environment History: Archiving Display Program
Delete	/NXI/P1_AR_EH_DL	/NXI/P1_ENVH_ARC_DEL	Environment History: Archiving Deletion Program
Reload	/NXI/P1_AR_EH_R	/NXI/P1_ENVH_ARC_REL	Environment History: Archiving Reload Program

Archiving Management

The system provides an overview of archiving sessions, such as archiving sessions with errors, incomplete archiving sessions, complete archiving sessions and replaced archiving sessions.

You can choose the specific sessions and files for which you want to view details. For example *Date*, *Time*, *Number of Objects*, *Size in MB*, *Status*.

Modifiable settings are *Notes*, *File Name*, *Logical Path* and *Physical File Name*.

5.4.1 Write

Follow the steps below to use the *Write* function within the archiving process:

1. In the client where SAP Profitability and Performance Management is installed, enter the transaction code SARA.
2. In the *Archiving Object* field, choose the object to be archived and press Enter.
3. Choose the *Write* button, so that the *Create Archive Files* window appears.
4. Create or edit an existing variant to define the following:
    1. Selection criteria
        - *Application Log Data*: Specify the timestamp or run ID as a criteria. If a timestamp is provided, the system archives all the entries that are equal to or less than the entered date.
        - *Process and Activities*: Specify the activity end date or due date as a criteria. The report selects records that are prior to the specified date. Only process instances with process status “COMPLETED” and “ABORTED” are archived.
        - *Environment History*: Specify the timestamp date as an archiving criteria.

2. Processing options
   Choose whether you want to execute the activity in test mode (*Simulation*) or production mode (*Real Run*).
5. Save the variant. The screen reverts to the *Create Archive File* window.
6. Define the *Start Date*. You can set an immediate start or schedule the writing process.
7. Define spool parameters like the output device, then choose *Continue*.
8. Choose *Execute* or F8.
9. The system performs the processing in the background.

> **i Note**
>
> Execute transaction SM37 to monitor the running background batch job.

5.4.2 Display

Follow the steps below to use the *Display* function within the archiving process:

1. In the client where SAP Profitability and Performance Management is installed, enter the transaction code SARA.
2. In the *Archiving Object* field, choose the object to display the data from the archived file and press Enter.
3. Choose the *Execute* button.
4. Define the selection for the following:
   - *Application Log Data*: Run ID or timestamp
   - *Process and Activity*: Due date of the activity
   - *Environment History*: Timestamp date
5. Choose *Execute*. The *Select Files for Read Program* screen appears.
6. In the *Sessions and Files* column, select the entry that matches the written or an existing file. Choose *Continue*.
7. The *Archiving Display* screen appears and displays the details for your selections.

5.4.3 Delete

Follow the steps below to use the *Delete* function within the archiving process:

1. In the client where SAP Profitability and Performance Management is installed, enter the transaction code SARA.
2. In the *Archiving Object* field, choose the object to be deleted and press Enter.
3. Choose *Delete* . The *Execute Delete Program* window appears.
4. You can choose to execute the deletion in test mode.
5. Select the files to be deleted by choosing an entry in the *Archive* selection.

> **i Note**
>
> Only files with status “Write Complete” are available in the list.

> It is important that you take note of the data that is to be deleted so that you can later verify that deletion was executed correctly.

6. Choose *Continue* or press Enter.
7. Define the *Start Date*. You can set an immediate start or schedule the writing process.
8. Define spool parameters like the output device, then choose *Continue*.
9. Choose *Execute* or F8.

To validate that the data records have been deleted, check the data in the respective database tables. The deleted data should no longer exist there.

5.4.4 Reload

Follow the steps below to use the *Reload* function within the archiving process:

1. In the client where SAP Profitability and Performance Management is installed, enter the transaction code SARA.
2. Navigate to *Menu* > *More* > *Go To* > *Reload*. The system displays an information window advising you to reload data in exceptional circumstances only.
3. Choose *Continue* to proceed. The *Reload Archive Session* window appears.
4. Create or edit an existing variant to define whether you want to carry out the reloading in test mode (*Simulation*) or production mode (*Real*).
5. Select the files that you want to reload by choosing an entry in the *Archive* selection.
6. Choose *Continue* or press Enter.
7. Define the *Start Date*. You can set an immediate start or schedule the writing process.
8. Define spool parameters like the output device, then choose *Continue*.
9. Choose *Execute* or F8.

5.5 Delete Generated Objects

When a SAP Profitability and Performance Management function is activated, the system generates certain objects (for example, Y tables, procedures and views). These generated objects are deleted when a given function is deleted.

You can also trigger the deletion of these objects explicitly using the following transactions:

- To delete the generated objects related to a deleted function from existing environments, use the transaction **/NXI/P1_IMPORT** with option *Ungenerate Deleted Functions*.
- To delete the generated objects related to functions from the deleted environments, use the transaction **/NXI/P1_UNGEN**.

6 Security Information

This section contains security-relevant information for SAP Profitability and Performance Management. We recommend that you read the fundamental security guides listed below.

Pay particular attention to the most relevant sections or specific restrictions as indicated in the table below.

Security Guide	Most Relevant Sections or Specific Restrictions
SAP NetWeaver 7.5 Security Guide	Entire Guide

6.1 User Administration and Authentication

SAP Profitability and Performance Management uses the user management and authentication mechanisms provided with the SAP NetWeaver platform, in particular the SAP NetWeaver Application Server ABAP. Therefore, the security recommendations and guidelines for user administration and authentication as described in the *SAP NetWeaver Application Server ABAP Security Guide* [SAP Library] also apply to SAP Profitability and Performance Management.

In addition to these guidelines, we include information about user administration and authentication that specifically applies to the SAP Profitability and Performance Management application in the following topics:

- User Management [page 54]
  This section lists the tools to use for user management, the types of users required, and the standard users that are delivered with the SAP Profitability and Performance Management application.
- User Data Synchronization [page 55]
  This section describes how the user data can be synchronized across systems in your system landscape.
- Integration into Single Sign-On Environments [page 55]
  This section describes how SAP Profitability and Performance Management supports single sign-on mechanisms.

6.2 User Management

User management for SAP Profitability and Performance Management uses the mechanisms provided with the SAP NetWeaver Application Server (ABAP). For example, tools, user types, and password policies. For an overview of how these mechanisms apply to SAP Profitability and Performance Management, see the following sections in this Administrator's Guide. In addition, we provide a list of the standard users required for operating SAP Profitability and Performance Management.

User Administration Tools

The table below shows the tools to use for user management and user administration with SAP Profitability and Performance Management.

Tools	Description
User maintenance for ABAP-based systems (transaction `SU01`)	For more information about the authorization objects provided by SAP Profitability and Performance Management, see the relevant component in the section Authorizations [page 56].
Role maintenance with the profile generator for ABAP-based systems (PFCG)	For more information about the roles provided by SAP Profitability and Performance Management, see the relevant component in the section Authorizations [page 56].
Central User Administration (CUA) for the maintenance of multiple ABAP-based systems	Use CUA to centrally maintain users for multiple ABAP-based systems. Synchronization with a directory server is also supported.
Organization of user groups (transaction `SUGR`)	Use transacton SUGR to organize user groups (for example, *Performer* and *Reviewer*) when you want to work with processes and activities (including applications such as *My Activities*, *Processes*, *My Events*) in line with the principle of dual control.

6.3 User Data Synchronization

By synchronizing user data, you can reduce effort and expense in the user management of your system landscape. Since SAP Profitability and Performance Management is based on SAP NetWeaver, you can use all of the mechanisms for user synchronization in SAP NetWeaver here.

Related Information

For more information, see SAP NetWeaver Security Guide.

6.4 Integration into Single Sign-On Environments

SAP Profitability and Performance Management supports the single sign-on (SSO) mechanisms provided by SAP NetWeaver. Therefore, the security recommendations and guidelines for user administration and authentication as described in the *SAP NetWeaver Security Guide* also apply.

The most widely-used supported mechanisms are listed below:

- Secure Network Communications (SNC):
  SNC is available for user authentication and provides for an SSO environment when using the SAP GUI for Windows or
  Remote Function Calls.
- SAP logon tickets:
  SAP Profitability and Performance Management supports the use of logon tickets for SSO when using a web browser as the frontend client. In this case, users create a logon ticket after they have authenticated themselves with the initial SAP system. The ticket can then be submitted to 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 system has checked the logon ticket.
- Client certificates:
  Users using a web browser as a frontend client can also provide X.509 client certificates for authentication. In this case, user authentication is performed on the web server using the Secure Sockets Layer Protocol (SSL Protocol) and no passwords have to be transferred. User authorizations are valid in accordance with the authorization concept in the SAP system.

For more information about the available authentication mechanisms, see *User Authentication and Single Sign-On* [SAP Library] in the *SAP NetWeaver Library*.

6.5 Authorizations

SAP roles and authorizations are used to control access to the various SAP Profitability and Performance Management functions.

The SAP NetWeaver authorization concept is based on assigning authorizations to users based on roles. For role maintenance, you use the profile generator (transaction **PFCG**) on the AS ABAP.

The solution comes with the following predefined roles:

1. Administration role `/NXI/P1_ADMIN_USER` or `/NXI/P1_ADMIN_USER_ALL`
   Users assigned to this role can run the following transactions:
   1. *Default Settings*
   2. *Teams*
2. Modeling role `/NXI/P1_MODELING_USER` or `/NXI/P1_MODELING_USER_ALL`
   Users assigned to this role can run the following transactions:
   1. *Modeling Overview*
   2. *My Environments*
3. Execution role `/NXI/P1_EXECUTION_USER` or `/NXI/P1_EXECUTION_USER_ALL`
   Users assigned to this role can run the following transactions:
   1. *Execution Overview*
   2. *My Activities*
   3. *My Events*
   4. *My Reports*
4. Execution management role `/NXI/P1_EXECUTION_MANAGER` or `/NXI/P1_EXECUTION_MANAGER_ALL`
   Users assigned to this role can run the transaction *Processes*.

5. Operations/system reports role `/NXI/P1_SYSTEM_REPORT_USER` or `/NXI/P1_SYSTEM_REPORT_USER_ALL`
   Users assigned to this role can run the following transactions:
   1. *Application Monitor*
   2. *Process Monitor*
   3. *Modeling History*
      By default, this role provides only display rights. To retrieve historic versions, the authorizations "Overwrite" and "Copy" are required (see below).

In addition, granular authorizations are maintained via authorization object `/NXI/P1F` using the following authorization fields:

1. `/NXI/P1ENV`
   This attribute defines the environment, for which the authorization is maintained.
2. `/NXI/P1VER`
   This attribute defines the environment version, for which the authorization is maintained.
3. `/NXI/P1PCU`
   This attribute defines the calculation unit, for which the authorization is maintained.
4. `/NXI/P1FTY`
   This attribute defines the function type, for which the authorization is maintained.
5. `/NXI/P1FID`
   This attribute defines the function id, for which the authorization is maintained.
6. `/NXI/P1ACT`
   This attribute defines, for which action the authorization is maintained. The following values are allowed:
   - "01" – Create
   - "03" – Display
   - "06" – Delete
   - "07" – Activate
   - "16" – Execute
   - "23" – Edit
   - "28" – Show Data
   - "30" – Edit Data
   - "46" – Merge
   - "51" – Delete Data
   - "71" – Analyze
   - "75" – Remove
   - "90" – Copy
   - "94" – Overwrite

   The following authorization activities have been updated to distinctively indicate authorizations on environment level:
   - "21" – Transport Environment Version
   - "81" – Create Environment Version
   - "82" – Edit Environment Version
   - "83" – Display Environment Version
   - "84" – Copy Environment Version
   - "85" – Merge Environment Version

- “86” – Delete Environment Version

See 2915996 for forther information.

To enable users to use the *Processes Manage & Deploy* application, you need to assign a SAP Profitability and Performance Management user group to individual users.

> **i** Note
>
> 1. You can check all the available user groups or teams and assign them to individual users in transaction `/NXI/P1_TEAM` – *Teams: Manage Team Users* app
> 2. As a minimum requirement, users must be assigned to the generic SAP Profitability and Performance Management user group “PAPM”.
> 3. To use the workflow (dual control) functions, in addition to the generic SAP Profitability and Performance Management user group, individual users must also be assigned to specific groups or teams (for example, PERFORMER and/or REVIEWER).

6.6 Session Security Protection

To increase security and prevent access to the SAP logon ticket and security session cookies, we recommend that you activate secure session management. We also highly recommend using SSL to protect the network communications where these security-relevant cookies are transferred.

Session Security Protection on the AS ABAP

The following section is relevant for Project Workspace and Project Cost and Revenue Planning in SAP NetWeaver Business Client:

To prevent access in JavaScript or plug-ins to the SAP logon ticket and security session cookies (`SAP_SESSIONID_<sid>_<client>`), activate secure session management. With an existing security session, users can then start applications that require a user logon without logging on again. When a security session is ended, the system also ends all applications that are linked to this security session.

Use the transaction `SICF_SESSIONS` to specify the following parameter values shown in the table below in your AS ABAP system:

Session Security Protection Profile Parameters

Profile Parameter	Recommended Value	Comment
icf/set_HTTPonly_flag_on_cookies	0	Client-dependent
login/ticket_only_by_https	1	Not client-dependent

6.7 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 (both on 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. In addition, 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 Profitability and Performance Management 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 Profitability and Performance Management. Details that specifically apply are described in the following sections:

- Communication Channel Security:
  This section describes the communication paths and protocols used by Project Workspace and Project Cost and Revenue Planning.
- Network Security:
  This section describes the recommended network topology for Project Workspace and Project Cost and Revenue Planning. It shows the appropriate network segments for the various client and server components and where to use firewalls for access protection. It also includes a list of the ports needed to operate Project Workspace and Project Cost and Revenue Planning.
- Communication Destinations:
  This section describes the information needed for the various communication paths. For example, which users are used for which communications.

For more information, see the following sections in the *SAP NetWeaver Security Guide* in the *Related Information* section:

- *Network and Communication Security* [SAP Library]
- *Security Aspects for Connectivity and Interoperability* [SAP Library]

Related Information

Network and Communication Security
Security Guides for Connectivity and Interoperability Technologies
Defining Downloads (Server -> Directory)
Defining Uploads (Directory -> Server)
Creating Certificates
Distributing Certificates to Client Computers

6.8 Communication Channel Security

The table below shows the communication channels used by Project Workspace and Project Cost and Revenue Planning, the protocol used for the connection, and the type of data transferred.

Communication Path	Protocol Used	Type of Data Transferred	Data Requiring Special Protection
Frontend client using SAP GUI for Windows to application server	RFC, HTTP(S)	Integration data	Passwords
Frontend client using a web browser to application server	HTTPS	All application data	Passwords
Application server to third-party application	HTTPS	System ID, client, and host name	System information (that is, host name)
Application server to application server	RFC	Application data (equipment, functional locations) integration objects	System information

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 Security Guide*.

6.9 Network Security

For information about network security for SAP NetWeaver, see the *SAP NetWeaver Security Guide*. The minimum security demand for your network infrastructure is the use of a firewall for all your services that are provided over the internet. A more secure variant is to protect your systems (or groups of systems) by locating the system groups in different network segments. Each system group has a firewall that protects it from unauthorized access. External security attacks can also come from the inside, if the intruder has already taken control of one of your systems.

Related Information

For information about access control using firewalls, see Using Firewall Systems for Access Control.

6.10 Communications Destinations

The use of users and authorizations in an irresponsible manner can pose security risks. Follow the security rules below when communicating with other systems:

- Employ the user types system and communication.
- Choose a secure password and do not divulge it to anyone else.
- Only store user-specific logon data for users of type system and communication.
- Wherever possible, use trusted system functions instead of user-specific logon data.

For navigation with NWBC for Desktop, you need to make entries in the table `HTTP_WHITELIST`.

6.11 Data Protection and Privacy

Data protection is associated with numerous legal requirements and privacy concerns. In addition to compliance with general data protection and privacy acts, it is necessary to consider compliance with industry-specific legislation in different countries. SAP provides specific features and functions to support compliance with regard 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 should not be taken as advice or a recommendation regarding additional features that would be required in specific IT environments. Decisions related to data protection must be made on a case-by-case basis, taking into consideration the given system landscape and the applicable legal requirements.

> **i Note**
>
> SAP does not provide legal advice in any form. SAP software supports data protection compliance by providing security features and specific data protection-relevant functions, such as read access logging and deletion of personal data. In many cases, compliance with applicable data protection and privacy laws will not be covered by a product feature. Definitions and other terms used in this document are not taken from a particular legal source. The extent to which data protection is supported by technical means depends on secure system operation. Network security, security note implementation, adequate logging of system changes and appropriate usage of the system are the basic technical requirements for compliance with data privacy legislation and other legislation.

Some basic requirements that support data protection are often referred to as technical and organizational measures (TOM). The following topics are related to data protection and require appropriate TOMs:

- Access control: Authentication features as described in User Administration and Authentication [page 54].
- Authorizations: Authorization concept as described in Authorizations [page 56] to ensure secure access to data.

The possibility of sensitive data being processed in SAP Profitability and Performance Management depends on your specific implementation. You decide what kind of data can be processed by SAP Profitability and Performance Management. It is strongly recommended that you do not feed person related data into SAP Profitability and Performance Management. If you still choose to process person related data in

SAP Profitability and Performance Management then it is recommended to de-personalize (pseudonymize/ anonymize) such data on your own before feeding it into SAP Profitability and Performance Management. You should enforce secure access to data using the authorization concept described in the earlier sections. It is also strongly recommended to run the temporary table data deletion report which clears data from the SAP Profitability and Performance Management temporary tables from time to time (see section Delete Temporary Data [page 48]).

If you process person related data in anyway, you need to make sure that you operate SAP Profitability and Performance Management in compliance to the relevant data privacy regulations. Particularly, requirements like personal data consent management, personal data read access logging, information about existing person related data, logging changes on person related data and erasure of personal data.

Related Information

Data protection in SAP HANA

6.11.1 Glossary

Term	Definition
Blocking	A method of restricting access to data for which the primary business purpose has ended.
Consent	The action of the data subject confirming that the usage of his or her personal data shall be allowed for a given purpose. A consent functionality allows the storage of a consent record in relation to a specific purpose and shows if a data subject has granted, withdrawn, or denied consent.
Data subject	An identified or identifiable natural person. 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.
Deletion	Deletion of personal data so that the data is no longer available.
End of business	Date where the business with a data subject ends, for example, the order is completed, the subscription is canceled, or the last bill is settled.
End of purpose (EoP)	End of purpose and start of blocking period. The point in time when the primary processing purpose ends, for example, a contract is fulfilled.

Term	Definition
End of purpose (EoP) check	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, for example, tax auditors.
Personal data	Any information relating to an identified or identifiable natural person (a data subject).
Purpose	The information that specifies the reason and the goal for the processing of a specific set of personal data. As a rule, the purpose references the relevant legal basis for the processing of personal data.
Residence period	The period of time between the end of business and 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.
Retention period	The period of time between the end of the last business activity involving a specific object (for example, a business partner) and the deletion of the corresponding data, subject to applicable laws. The retention period is a combination of the residence period and the blocking period.
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, trade union membership, 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
Where-used check (WUC)	A process designed to ensure data integrity in the case of potential blocking of business partner data. An application's where-used check (WUC) determines if there is any dependent data for a certain business partner in the database. If dependent data exists, this means the data is still required for business activities. Therefore, the blocking of business partners referenced in the data is prevented.

6.11.2 User Consent

SAP Profitability and Performance Management uses data from operational source systems or systems with permanent data stores which have actual data lifecycle management objects and is not collecting any data directly.

6.11.3 Read Access Logging

Read access logging (RAL) is used to monitor and log read access to sensitive data. Data may be categorized as sensitive by law, by external company policy, or by internal company policy. Read access logging enables you to answer questions about who accessed particular data within a specified time frame. Here are some examples of such questions:

- Who accessed the data of a given business entity, for example a bank account?
- Who accessed personal data, for example of a business partner?
- Which employee accessed personal information, for example religion?
- Which accounts or business partners were accessed by which users?

The data processed in SAP Profitability and Performance Management is read from operational source systems or systems with permanent data stores which have actual data lifecycle management. SAP Profitability and Performance Management assumes that read access logging is implemented in these source systems. If you need to track read access directly in the SAP HANA database of SAP Profitability and Performance Management you can use SAP HANA Audit Trail. If you need to track read access in the Netweaver Application Server for ABAP of SAP Profitability and Performance Management, you have to configure Read Access Logging in Netweaver Application Server for ABAP on your own.

Related Information

Auditing Activity in the SAP HANA Database
SAP HANA Audit Trail
Read Access Logging in Netweaver AS ABAP

6.11.4 Information Report

Data subjects have the right to get information regarding their personal data undergoing processing.

Since the data processed in SAP Profitability and Performance Management is read from operational source systems or systems with permanent data stores which have actual data lifecycle management, SAP Profitability and Performance Management assumes that information reporting is implemented in these source systems. Since SAP Profitability and Performance Management has no permanent data storage, the local temporary data is deleted regularly and the calculated final results data are written back to the source

systems, the assumption is that the information report has to be implemented in these source systems. If you need information reporting directly from the SAP HANA database of SAP Profitability and Performance Management, you can use SQL to retrieve the required information. You can use SAP WebIDE / SAP HANA runtime tools to create views for the required temporary database tables to fetch the information. If you need information reporting from the Netweaver ABAP Application Server of SAP Profitability and Performance Management, you could make use of Information Retrieval Framework solution provided by Netweaver Application Server for ABAP by implementing/configuring it on your own.

Related Information

Information Retrieval Framework in Netweaver AS ABAP

6.11.5 Change Log

Personal data is subject to frequent changes. Therefore, for review purposes or as a result of legal regulations, it may be necessary to track the changes made to this data. When these changes are logged, you should be able to check which employee made which change, the date and time, the previous value, and the current value, depending on the configuration. It is also possible to analyze errors in this way.

Logging changes on person related data is not relevant in SAP Profitability and Performance Management as data is only read from operational source systems or systems with permanent data stores which have actual data lifecycle management into SAP Profitability and Performance Management for calculations/processing. Since SAP Profitability and Performance Management has no permanent data storage, the local temporary data is deleted regularly and the calculated final results data are written back to the source systems, the assumption is that change logging has to be implemented in these source systems.

6.11.6 Deletion of Personal Data

The processing of personal data is subject to applicable laws related to the deletion of this data when the specified, explicit, and legitimate purpose for processing this personal data has expired. If there is no longer a legitimate purpose that requires the retention and use of personal data, it must be deleted. When deleting data in a dataset, all referenced objects related to that data set must be deleted as well. Industry-specific legislation in different countries also needs to be taken into consideration in addition to general data protection laws. After the expiration of the longest retention period, the data must be deleted.

Data is read from source systems (which have data lifecycle management objects) into SAP Profitability and Performance Management for calculations/processing and the results are written back to such systems. So deletion of personal data has to be performed in such source systems. For the data residing in the temporary buffer tables of SAP Profitability and Performance Management you have to run the temporary table data deletion report which clears data from the SAP Profitability and Performance Management temporary tables (see *Delete Temporary Data*).

Related Information

Delete Temporary Data [page 48]

6.12 Security-Relevant Logging and Tracing

SAP Profitability and Performance Management uses the logging and tracing mechanisms of SAP NetWeaver. SAP NetWeaver security features, such as the *Audit Info System* and the *Security Audit Log* help you secure your system, detect security-relevant events, and reconstruct actions that have taken place in the system.

For more information about logging and tracing in SAP NetWeaver, see *Auditing and Logging* in the *Related Information* section below.

Related Information

For information about auditing and logging, see Auditing and Logging.

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