

Browse the Book

This sample chapter discusses how to use SAP ILM to shut down legacy systems with the retention warehouse. After an overview of the foundations and architecture of the retention warehouse, this chapter moves onto the core tasks: replicating legacy data, archiving that data, and transferring it to the retention warehouse system. The chapter closes by covering reporting on a system that has been shut down.









Iwona Luther, Nicole Fernandes

SAP Information Lifecycle Management: The Comprehensive Guide

609 Pages, 2020, \$99.95 ISBN 978-1-4932-1959-9



www.sap-press.com/5072

[**]

Chapter 8

System Shutdown with the Retention Warehouse

Now that you're familiar with SAP ILM and the first application scenario, retention management, let's move on to the second SAP ILM scenario, retention warehouse. You'll learn how the retention warehouse scenario can be used to shut down legacy systems and the advantages and challenges that come with it.

This chapter gives you an overview of how you can use SAP ILM to shut down legacy systems. It deals specifically with the second of the two application scenarios that we discussed at the end of Section 1.1 in Chapter 1.

System Shutdown = System Decommissioning

In the literature or documentation, the term system decommissioning or system decommissioning of legacy systems is sometimes used in conjunction with system shutdown.

A system shutdown project with SAP ILM is usually managed by experts from SAP ILM Consulting because the subject and the related tasks are demanding. In this chapter, we want to give you an overview of the project stages and the SAP ILM retention warehouse functionalities.

8.1 Foundations and Definition

Before we explain the retention warehouse scenario solution, let's first discuss the underlying issues. To determine the challenges that SAP ILM can help you with, ask yourself the following questions:

- What is a legacy system?
- How do legacy systems come into being in your system landscape?
- Why can't you just switch off the legacy systems?
- Why shouldn't you just keep the legacy systems running?

A system must meet the following general criteria to be called a legacy system:



- The system should be read-only.
- If access to the system is required, it should only be granted to a few users. The purpose of the access is related to audits/inspections, legal aspects such as retention obligations, or similar.
- The system isn't connected to any productively used system.
- The system isn't used by any system in productive use.

So how is it that legacy systems occur in your system landscape? The possible reasons are these:

- Acquisitions of systems in mergers and acquisitions
- Upgrades of systems
- Implementations of new solutions

What about the option of simply switching off a legacy system? This option is generally out of the question due to legal aspects such as retention obligations or possible audits/inspections for which you have to keep certain data of the system.

Well, you might be wondering if the system could just continue to operate as before. Actually, this approach is rather shortsighted because, over time, running legacy systems can prove to be very costly for the following reasons:

- Legacy systems may no longer be subject to a maintenance contract.
- Running a legacy system consumes additional or very specific resources (appropriately trained staff who still know the system, etc.).
- Further expenditures may have to be made in connection with risk assessment in the operation of old hardware and software.

The solution to the legacy system problem is provided by the *retention warehouse sce-nario* of SAP ILM. You can use it to shut down legacy systems in your system landscape, while at the same time retaining data required to meet legal aspects and obligations.

The retention warehouse scenario offers you the following advantages:

- A central repository for all shutdown legacy systems
- Flexible reporting options
- Continuous implementation/compliance with retention obligations

[>>]

Different Facets of the Retention Warehouse Scenario

This SAP ILM scenario has also been further developed over the years. For example, the first version didn't use an SAP Landscape Transformation Replication Server system (Section 8.2). Our chapter is devoted to the current version of the retention warehouse scenario and its use.

We've already described the business function you require for the retention warehouse scenario—business function ILM (Information Lifecycle Management)—in Chapter 2, Section 2.8. If you also want to use SAP Business Warehouse (SAP BW) for reporting, SAP provides suitable predefined content in business functions ILM RWC *.

8.2 System Architecture

Let's first address the system architecture in an SAP ILM retention warehouse scenario. We'll look at Figure 8.1 and describe the individual components of this scenario on its basis.

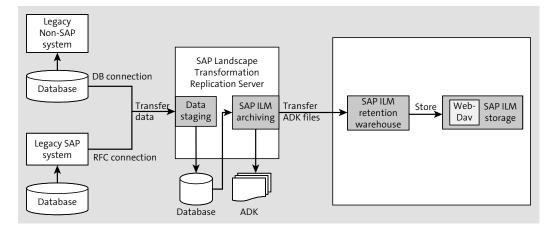


Figure 8.1 Retention Warehouse Scenario: System Architecture

- 1. In the left half of the screen, you can see the legacy system that is supposed to be shut down.
 - If it's an SAP system, you must install the DMIS (Data Migration Server) add-on.
 The version you need depends on the version of your legacy system. In this context, SAP Note 1000578 is certainly of interest to you.
 - If it's a non-SAP system, its database and version should be of a standard that is supported by SAP Landscape Transformation Replication Server. For more information, see SAP Note 1768805.
- 2. The SAP Landscape Transformation Replication Server box in Figure 8.1 represents the system that should also contain the DMIS add-on. The DMIS version should be at least 2011 SP14.
- 3. The SAP ILM Retention Warehouse box represents the retention warehouse system.
- 4. The box on the far right in Figure 8.1 represents the SAP ILM-enabled storage system (see Chapter 2, Section 2.6).

[>>]

SAP Landscape Transformation Replication Server

An SAP Landscape Transformation Replication Server system enables the replication of data from one or more source systems to one or more target systems. The source systems can be SAP systems or non-SAP systems.

[>>]

A New Home for Data from Shutdown Systems

The fact that the *retention warehouse system* is a new system that you have to set up in your system landscape sounds a bit absurd because, on one hand, we're talking about harmonizing your system landscape and *reducing* the number of your systems. But the savings, as you'll see, come with time. You can think of the retention warehouse system as a building where the data to be retained from different shutdown systems moves into separate apartments (see also Figure 2.40 in Chapter 2). The data in the source system (legacy system) remains unchanged; it isn't modified, archived, or deleted. Instead, the required data is copied to the new home—the retention warehouse system.

Let's now look at the connections between the systems just mentioned and the directions that are possible. You can set up the following connections:

1. From SAP Landscape Transformation Replication Server system to the legacy system

If the legacy system is an external system (non-SAP system), you need a database connection from the SAP Landscape Transformation Replication Server system to the legacy system. You can create this in Transaction DBCO (DB Connection Maintenance).

If the legacy system is an SAP system, you need an ABAP Remote Function Call (RFC) connection from the SAP Landscape Transformation Replication Server system to the legacy system.

2. From SAP Landscape Transformation Replication Server system to the database In the SAP Landscape Transformation Replication Server system, you need another connection to the database. This new connection should point to a new *database schema*. In this way, you achieve better management of the database because you have objects in the primary database (tables, views, etc., in the primary database schema, which is usually called SAPR3), completely isolated from the database objects that you'll create as part of the shutdown project. For example, you can delete the additional database schema at the end of the project.

3. From SAP ILM retention warehouse system to SAP Landscape Transformation Replication Server system

Here you need one RFC connection per SAP Landscape Transformation Replication Server client.

4. From the SAP ILM retention warehouse system to the SAP ILM-enabled storage system

For this, you need an HTTP connection.

After these connections are established, you can move on to the next step—replicating data from the legacy system.

8.3 Replication of Data from the Legacy System

Let's begin with an explanation of the individual steps you take when shutting down a legacy system. We'll first introduce the replication of data from your legacy system.

Which Data from the Legacy System Is Still Needed?



An important question in a system shutdown project is the following: What data do you need to transfer to the SAP ILM retention warehouse system before you shut down the legacy system? Generally speaking, there are two approaches to this:

- All data is transferred because you can't tell 100% what will no longer be needed in the future.
- You invest a good amount of time in an extensive analysis that identifies the (not) required data.

Experience from projects known to us shows that most customers choose the first option.

To begin replicating data from your legacy system, let's take a look at Figure 8.2. The replication (extraction) of data from the legacy system into the SAP Landscape Transformation Replication Server system requires the following two steps:

- 1. Set up the SAP Landscape Transformation Replication Server configuration for extraction.
- 2. Replicate (extract) data from the legacy system for the required tables.

These two steps will be described in detail in the following sections.

Replication, Export, Extraction



In the relevant literature, as well as in our book, there are various synonyms for this process: *replication*, *export*, or *extraction*.

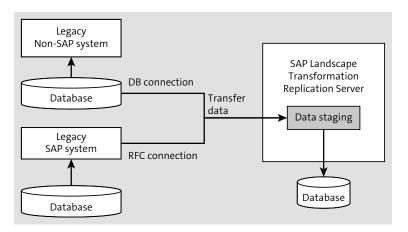


Figure 8.2 SAP ILM Retention Warehouse Scenario: Data Extraction

8.3.1 Configuration for Extraction in an SAP Landscape Transformation Replication Server System

For extraction in the SAP Landscape Transformation Replication Server system, you need to set up the configuration by following these steps:

- 1. Run Transaction LTRC (LT Replication Server Cockpit).
- 2. Select Create Configuration (see Figure 8.3).



Figure 8.3 SAP LT Replication Server Cockpit Screen: Create Configuration

3. Complete the **Configuration Name** and **Description** fields according to your naming convention (see Figure 8.4), and confirm your entries with **Next**.

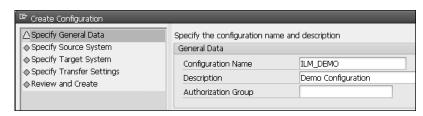


Figure 8.4 Create Configuration: General Data

- 4. Enter the details required for a connection to the source system (the legacy system) in the **Specify Source System** area.
- 5. If the legacy system is an SAP system, select the **RFC Connection** radio button, and enter the name of the RFC connection in the **RFC Destination** field (see Figure 8.5).
- 6. There are also two checkboxes that you should activate appropriately:
 - Select the Allow Multiple Usage checkbox if the RFC connection entered can also be used for other SAP Landscape Transformation Replication Server replication connections.
 - If the Read from Single Client checkbox is selected, data can only be transferred from one client of the legacy system. Select this checkbox if you plan to shut down data from only one client of the legacy system.

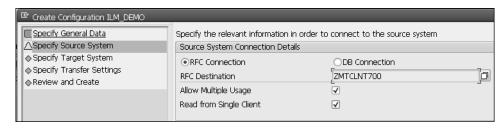


Figure 8.5 Creating a Configuration: Specifying the Source System (RFC Connection)

- 7. If the legacy system is an external system (non-SAP system), select the **DB Connection** radio button (see Figure 8.6), and make the following entries:
 - From the Database System dropdown list, select the type of database of the legacy system.
 - In the DB Connection field, enter the database connection name that you set up in Transaction DBCO (DB Connection Maintenance).
 - In the Schema Name field, enter the name of the database schema in which the table is located in the legacy system.
- 8. Confirm your entries with Next.

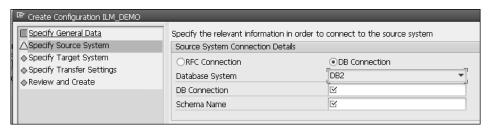


Figure 8.6 Create Configuration: Specify Source System (DB Connection)

9. Next, you can make entries for the target system. To do this, activate the **DB Connection** radio button (see Figure 8.7), and then describe the properties of the target system.

If you intend to use SAP HANA as the secondary database, complete the fields as follows:

- From the Database System dropdown list, select the HANA entry.
- Enter the name of the user who has permission to connect to the SAP HANA database in the Administration User Name field.
- Enter the password of the user in the **Password** field.
- Enter the host name of the database server in the **Host Name** field.
- Enter the instance number of the SAP HANA database server in the Instance Number field.
- In the Logical Port Number field, enter the logical port number of the SAP HANA database server.
- Select the Use Encrypted Connection checkbox. For SAP HANA SP 07 or higher (as
 a database in the SAP Landscape Transformation Replication Server system) the
 checkbox *must* be activated. This ensures that the data transfer takes place via an
 encrypted connection.

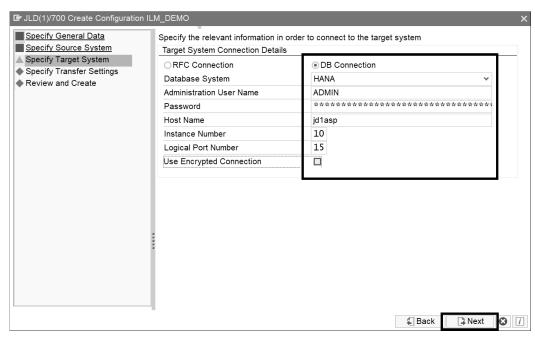


Figure 8.7 Creating a Configuration: Specifying the Target System as an SAP System

- 10. If you intend to use any other database supported by SAP Landscape Transformation Replication Server as the target database, complete the fields as follows (see Figure 8.8):
 - From the Database System dropdown list, select the type of database of the legacy system.

- In the DB Connection field, enter the database connection name that you set up in Transaction DBCO (DB Connection Maintenance). It describes the target database to which the data will be replicated.
- In the Schema Name field, enter the name of the database schema in which the table is located in the legacy system.
- For some databases, such as DB6 or Oracle, you also need to specify the tablespace that is intended for the database schema.
- 11. Confirm your entries with Next.

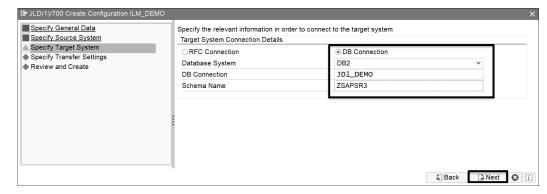


Figure 8.8 Creating a Configuration: Specifying the Target System as an External System

12. On the left side of the screen, the **Specify Transfer Settings** section is now high-lighted (see Figure 8.9). Make settings here that correspond to the system resources for replication.

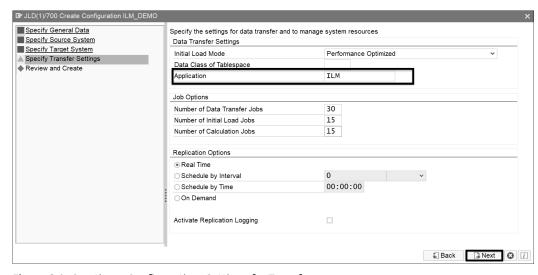


Figure 8.9 Creating a Configuration: Settings for Transfer

- 13. Make sure you enter the value "ILM" in the **Application** field. This ensures that the required tables are generated in the SAP Landscape Transformation Replication Server system (and that the data can be transferred there from the legacy system). Not every application needs this procedure, but SAP ILM does, so it's important that you enter this value exactly.
- 14. Confirm your entries with Next.
- 15. On the left side of the screen, the last area will be highlighted next: **Review and Create** (see Figure 8.10). Check the parameters and confirm your entries via the **Create** button.

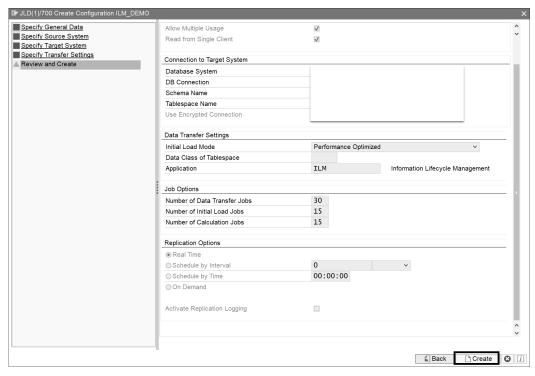


Figure 8.10 Creating a Configuration: Review and Create

The preparations for replication are now complete. The data to be shut down can subsequently be replicated from the source system (legacy system) to the (primary) database of the SAP Landscape Transformation Replication Server system.

8.3.2 Replication of Data from the Legacy System

The next logical step is to transfer the required data from the source system (legacy system) to the SAP Landscape Transformation Replication Server system. This is the replication/extraction mentioned earlier. The SAP Landscape Transformation Replication Server system serves as a kind of collection point (you'll often find the term *staging area* for this). Follow these steps:

- 1. Run Transaction LTRC (LT Replication Server Cockpit).
- 2. Select the configuration you've created (in our example, it's called **ILM_DEMO**), and then select **Display Configuration** (see Figure 8.11).



Figure 8.11 Transaction LTRC (LT Replication Server Cockpit)

3. Select the **Table Overview** tab (if it isn't already displayed), and click the **Data Provisioning** button at the top (see Figure 8.12).

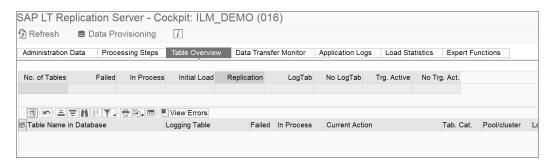


Figure 8.12 Transaction LTRC (Data Provisioning)

4. Enter the name of the table in the **Table Name in Database** field (see Figure 8.13), select the **Start Load** radio button, and then click **Execute** (F8).

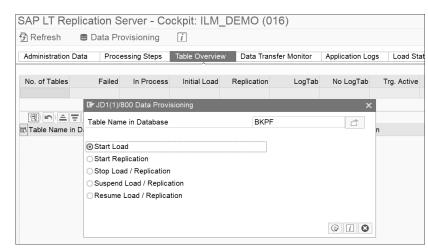


Figure 8.13 Data Provisioning: Start Loading Process



Provide Multiple Tables Simultaneously

You can also enter several table names in the screen displayed in Figure 8.13. However, we recommend that you don't enter more than 5,000 tables at once.

The entered table name appears in the **Table Overview** tab (see Figure 8.14). This confirms that the table exists in the source system (legacy system) and that data retrieval will take place.



Figure 8.14 Transaction LTRC: Confirmation of Selected Tables

In the first step, an associated target table is generated in the SAP Landscape Transformation Replication Server system. You can find information about this table by clicking on the link in the **Proxy Table** column in the overview of all tables. A possible result screen is shown in Figure 8.15.

Dictionary: Display	/ Tab	le								
+ + 9 8 4 4	1 🖟	≡ \	A E	i i	n;	iii Technica	al Setting	gs Ind	exes.	Append Structure
Transparent Table	/1ı T	/800	000002	201 Act	ive					
Short Description				nt Header	.,,					
Attributes Delivery ar					/ heli	p/check Cur	rency/Qua	ntity Fiel	de	
7 tttributes Benvery un	ia iviali	remain		^ Entry	, 1101	proficoi: Our	reney/ qua	intity i ion	10	
		×		≈	w []	Srch Help	Pre	edefined ⁻	Гуре	
Field	Key	Initi	Data e			Data Type	Length	Decim	Shor	t Description
MANDT	✓	✓				CLNT	3	3	0 Clien	t
BUKRS	√	✓				CHAR	4	1	0 Com	pany Code
BELNR	✓	✓				CHAR	10)	0 Acco	unting Document Number
GJAHR	✓	✓				NUMC	4	ŀ	0 Fisca	al Year
BLART						CHAR	2	2	0 Docu	ment Type
BLDAT						DATS	8	3	0 Docu	ment Date in Document
BUDAT						DATS	8	3	0 Post	ing Date in the Document
MONAT						NUMC	2	2	0 Fisca	al Period
CPUDT						DATS	8	3	0 Day	On Which Accounting Document Was Entered
CPUTM						TIMS	6	5	0 Time	of Entry
AEDAT						DATS	8	3	0 Date	of the Last Document Change by Transaction
UPDDT						DATS	8	3	0 Date	of the Last Document Update
WWERT						DATS	8	3	0 Tran	slation Date
USNAM						CHAR	12	2	0 User	name
TCODE						CHAR	20)	0 Tran	saction Code
BVORG						CHAR	16	5	0 Numl	per of Cross-Company Code Posting Transaction

Figure 8.15 Transaction LTRC: Confirmation of Table Information

At this point, you certainly want to know the status of the data provisioning (extraction). To do this, select a table in the table overview, and click on the **Data Transfer Monitor** tab (see Figure 8.16).



Figure 8.16 Transaction LTRC: Data Transfer Monitor

To enable you to track the status of processing, the following information is provided here:

■ Failed

This column displays an "X" if one of the steps for data transfer has failed. You can see information about the cause by clicking on the corresponding line and selecting the **View Errors** button above the list.

In Process

This column displays an "X" if the data transfer is in one of the following steps (Defined, Generated, Calculated, etc.).

Defined

This column displays an "X" if the table metadata has been successfully determined and the tables have been successfully created in the SAP Landscape Transformation Replication Server system. The table metadata includes the fields of the tables, their type description, and so on. This metadata is needed, on the one hand, to generate the table and, on the other hand, to generate the programs that transfer the data from the source to the target table.

Generated

This column displays an "X" if runtime replication objects have been created. Function modules and coding are required to replicate the data from the source system to the target system.

■ Calculated

This column displays an "X" if the access plan has been calculated. Data replication first collects certain metadata and creates an access plan. With its help, the reading and replication process can be optimized. Certain processing operations can be carried out in parallel, if possible.

■ Loaded

This column displays an "X" if the data was successfully loaded from the source system (legacy system) into the table in the SAP Landscape Transformation Replication Server system.

After the data has been extracted, the **Load Statistics** tab will also provide you with more information (see Figure 8.17). For example, the **Records Inserted** and **Records Read** columns show the corresponding numbers.

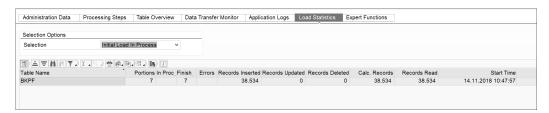


Figure 8.17 Transaction LTRC: Load Statistics

Another way to check the status of data provisioning (extraction) for a table is to take a look at the data provided. You can use the *Data Browser*, for example (see Figure 8.18).

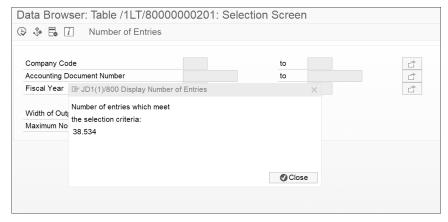


Figure 8.18 Data Browser for Extracted Tables

8.4 Archiving Data from the Legacy System

The *Legacy Extraction Workbench* is an SAP ILM solution that works in conjunction with SAP Landscape Transformation Replication Server replication. You can use the Legacy Extraction Workbench to archive data that you've replicated from the legacy system to the SAP Landscape Transformation Replication Server system, as described in Section 8.3. The Legacy Extraction Workbench is therefore an SAP ILM solution that you'll use in the SAP Landscape Transformation Replication Server system.



Why Archive Replicated Data in the SAP Landscape Transformation Replication Server System?

One of the core features of the system shutdown concept with SAP ILM (the retention warehouse scenario) is that the shutdown data is available in the retention warehouse system in the format of SAP ILM-enabled archive files. One step in the shutdown scenario must therefore be the archiving of such data. The advantage is that the data is available in compressed form, the retention period is flagged directly on the archive file (if known), and data from different legacy systems is available in separate areas.

If your legacy system is an SAP system, you must have replicated the following tables from the legacy system to the SAP Landscape Transformation Replication Server system to use the Legacy Extraction Workbench:

- DD03L (Table Fields)
- ARCH OBJ (Objects for Archiving and Reorganization)
- ARCH DEF (Definition of Archiving Object)
- ARCH_TXT (Description of Archiving Objects)

You also need an RFC connection from the SAP Landscape Transformation Replication Server system to the legacy system.

If your legacy system is a non-SAP system, a functioning database connection between the legacy system and the SAP Landscape Transformation Replication Server system is sufficient at this point. We will provide information on the configuration required for the Legal Extraction Workbench and its use when running an archiving procedure in the following sections.

8.4.1 Configuration

Let's now look at the configuration for the Legacy Extraction Workbench, which you make in Transaction ILM_LTCONFIG (Landscape Transformation System Configuration). It consists of two tasks, which we'll discuss separately in a moment:

- 1. Storing the mass transfer information
- 2. Defining the archiving object

Let's begin with storing the mass transfer information by following these steps:

- 1. In Transaction ILM_LTCONFIG on the left side of the screen, double-click on the Mass Transfer Information entry.
- 2. Switch to change mode, and create a new entry. Make the following entries (see Figure 8.19):
 - Assign a mass transfer ID in the Mass Transfer ID column. As you can see from the field value help (F1), it specifies a unique identifier that is assigned to a mass transfer session between the legacy system and the SAP Landscape Transformation System.
 - In the Legacy System ID column of the source system, enter the ID of the source system from which the data is to be read. If the legacy system is a non-SAP system, enter a name consisting of three characters.
 - In the Legacy System Client column, specify the client of the source system from which you want to read. If it's a non-SAP system, enter a name consisting of three digits.
 - Select the IS SAP System checkbox if the legacy system is an SAP system.

- If you've selected the Is SAP System checkbox, specify the RFC connection from the current system to the legacy system in the RFC Connection: LT to Legacy SAP System column.
- The Legacy System Configuration Status column is an output field and displays the status of the configuration created.
- 3. Save your entries.

View Cluster Maintenance: Initial Screen							
⇒ E							
Dialog Structure	Mass Transfer Information	1					
Mass Transfer Information Mass Transfer Information	Mass Transfer ID	Legacy System ID	Legacy System Client	Is SAP System	RFC Connection: LT to SAP Legacy System		
Archiving Object	00A	IP3	400	✓	IP3CLNT400		
✓ I Structure Definition							
■ Table Relationship ■ Tables for Context Data Extrac							
Cluster Tables							

Figure 8.19 Transaction ILM LTCONFIG: Mass Transfer Information



Do I Always Have to Define an Archiving Object?

The table has its own repository of archiving objects, so to speak. Regardless of which archiving objects Transaction SARA (Archive Administration) displays in the SAP Landscape Transformation Replication Server system, you must create all required archiving objects in the Legacy Extraction Workbench (again, if necessary), as we describe here.

We'll now turn to the second task mentioned at the beginning of this section—defining the archiving object—by following these steps:

1. Select the mass transfer ID you've just created, and select **Archiving Object** in the tree on the left.

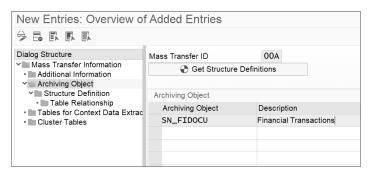


Figure 8.20 Transaction ILM_LTCONFIG: Archiving Object

- 2. Create a new entry for an archiving object in change mode on the right-hand side of the screen. Make the following entries (see Figure 8.20):
 - In the Archiving Object column, enter a name of your choice (up to 10 characters) for the new archiving object.

- Enter a suitable description for the archiving object in the **Description** column.
- Configuration Status of the Object is an output field and displays the status of the configuration created for the archiving object.
- 3. Save your entries.
- 4. Select the archiving object you've just defined, and click on **Structure Definition** in the tree on the left.

Your next task is to enter the tables that can be archived using the archiving object by following these steps (see Figure 8.21):

- 1. Type a number for the table you want to enter in the **Sequence** column.
- 2. Enter the name of the superordinate table (parent table) in the **Parent Table** column.
- 3. In the **Child Table** column, enter the name of the subordinate table. If it's the header table (leading table), enter its name again here.
- 4. Select the **Is Relationship Single** checkbox if the child table can only have one entry per entry in the parent table. Don't select it if there can be multiple entries.
- 5. Save your entries.



Figure 8.21 Transaction ILM LTCONFIG: Archiving Object, Structure Definition

Numbers of Tables in the Archive Hierarchy

[«]

The number in the **Sequence** column must be unique (a number should therefore only occur exactly once); otherwise, it has no further meaning. We recommend that you assign the numbers for the tables in ascending order. You can determine the increment as you wish. Start with the header table.

The next step is to define the table relationships. Follow these steps (see Figure 8.22):

- 1. Select the row in which you entered the parent and child tables, and double-click the **Table Relationship** entry in the tree on the left.
- 2. In the **Position** column, enter a number representing the table relationship. We recommend that you assign the numbers in ascending order; you can determine the increment as you wish.
- 3. Enter the name of the table field of the superordinate table that is to be used as the foreign key for the table relationships in the **Parent Field** column.

- 4. In the **Child Field** column, enter the name of the table field of the subordinate table that has a foreign key relationship with the field of the superordinate table.
- 5. Save your entries.

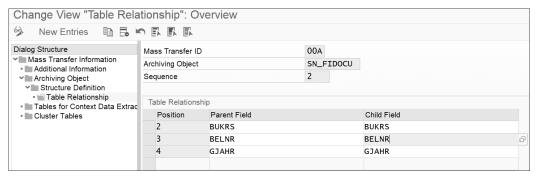


Figure 8.22 Adjusting the Table Relationship



Retrieve Table Relationships

If the legacy system is an SAP system and the table relationships between the parent and child table are part of the table key, you can alternatively click on the **Get Table Relationship** button. The system creates a suggestion for the table relationships, which you can adjust if necessary.

8.4.2 Running an Archiving Procedure via the Legacy Extraction Workbench

Now that the configuration is complete, let's discuss how to run archiving in the SAP Landscape Transformation Replication Server system.



Archive Using Transaction SARA or Legacy Extraction Workbench?

We want to emphasize once again that the Legacy Extraction Workbench, and not Transaction SARA (Archive Administration), is used to archive data that exists in the SAP Landscape Transformation Replication Server system (and was replicated there from the legacy system). This section shows you how to proceed.

Follow these steps:

- 1. Run Transaction ILM_LTRUN (SAP ILM Landscape Transformation Configuration: Object Execution).
- 2. Double-click on the left side of the screen on the mass transfer ID created as in the previous section on configuration. In the right half of the screen, you can now see the corresponding archiving objects that were also created during configuration (see Figure 8.23).
- 3. Select the name of the required archiving object, and click **Create Archiving File**.

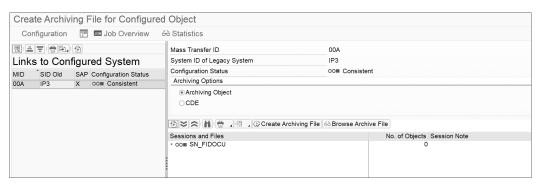


Figure 8.23 Transaction ILM_LTRUN: Generate Archive Write Program

[«]

Generating the Archiving Object

If you select the **Create archiving file** function mentioned in step 3 for the first time, the archiving object is generated first. The system informs you of this in steps 4 to 6 described in this section, but if you've already created archive files using this archiving object, these steps aren't required.

- 4. A popup window appears informing you about the generation of the archive write program. Read it and confirm it with the **Generate** button.
- 5. You'll now see a popup window with all fields from the parent (leading) table (see Figure 8.24). Select the fields that you want to have as selection parameters in the selection screen of the archive write program. Then confirm the popup window.

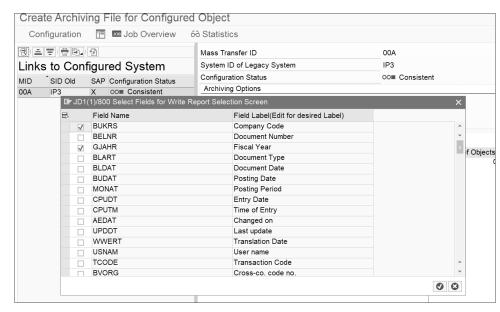


Figure 8.24 Generate Archive Write Program: Determining Fields for Selections

 $\lceil \langle \langle \rangle \rceil$

6. You'll then receive a success message with the name of the generated archive write program (e.g., the name could be <code>ZILM_RW_SN_FIDOCU_OOA_WRI</code>.) The archiving object is now generated. An example of how the selection screen of the archive write program might look is shown in Figure 8.25.

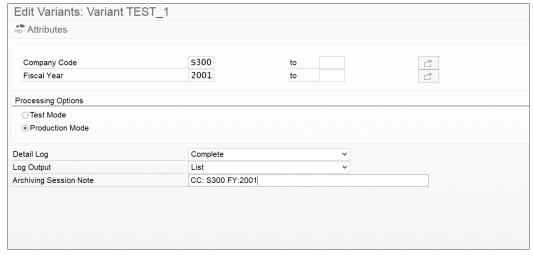


Figure 8.25 Start Archive Session: Maintain Variant for the Archive Write Program

[>>]

Mini Archiving Object

The archiving object generated here consists only of the archive write program and some required Customizing settings. For example, it doesn't have a delete or read program; these aren't required for the shutdown concept.

[>>]

Related SAP ILM Object and Its Settings

A related SAP ILM object hasn't been generated. Your task is therefore to do this in Transaction IRM_CUST (Information Retention Manager Customizing). (For more information, see Chapter 9, Section 9.5. ABAP development skills and a good understanding of the table structure of the associated archiving object are required). You must then make an assignment to at least one audit area and create suitable rules for the retention period (see Chapter 2, Section 2.3 and Section 2.5).

- 7. Double-click on the name of the (now-generated) archiving object, and click **Create Archiving File** again.
- 8. A popup window appears in which you can make entries for the variant for the archive write program, the start date, and the spool parameters. To create a variant, click on Maintain/Edit. We consider a certain knowledge of how to handle these actions, that

is, knowledge of data archiving, to be a prerequisite for reading this book (for further links with information on related subjects, see Chapter 1, Section 1.1).

Archive Files in the SAP Landscape Transformation Replication Server System

Project experience shows that it's advantageous to create SAP ILM-enabled archive files (i.e., archive files with a calculated retention period) when archiving in the SAP Landscape Transformation Replication Server system because everything is written in a better order right from the beginning. In this case, you have to transport the archiving objects, SAP ILM objects, and audit areas created from the SAP Landscape Transformation Replication Server system to the retention warehouse system. We recommend that you also transport the rules. If the SAP Landscape Transformation Replication Server system is no longer available after some time, you can view the defined rules in the retention warehouse system at any time.

The alternative is to first create the SAP ILM-enabled archive files in the retention warehouse system. In this case, you only need to transport the archiving objects from the SAP Landscape Transformation Replication Server system to the retention warehouse system. (The other objects would not yet exist, so the archive files aren't yet SAP ILM-enabled.) You would first create the other objects mentioned, such as SAP ILM objects and audit areas, in the retention warehouse system.

Then schedule the archive run. You'll receive a confirmation message. You can find information about the job in the job overview as usual (see Figure 8.26). To run it, click on the **Job Overview** button at the top of Transaction ILM_LTRUN (SAP ILM Landscape Transformation Configured Object Execution).

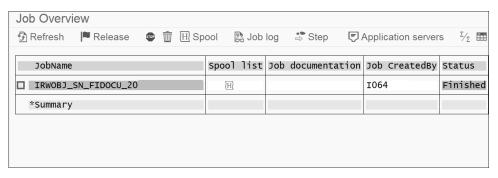


Figure 8.26 Transaction ILM LTRUN: Job Overview

After the job for the run is complete, you can refresh the screen of Transaction ILM_LTRUN. The **Refresh** button is located on the left-hand side of the screen above the list of available mass transfer IDs. In the right-hand part of the screen, the archiving session that has been executed appears as an entry under the corresponding archiving object (see Figure 8.27).

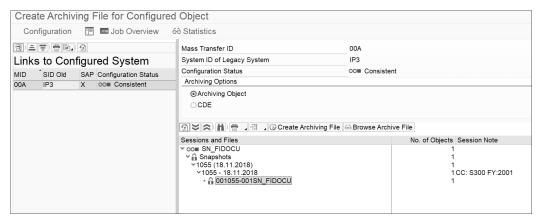


Figure 8.27 Transaction ILM LTRUN: Sessions for Archiving Object

You can also obtain information on the archive file as usual in Transaction SARA (see Figure 8.28).

Archive File	001055-001SN_FIDOCU
Date	18.11.2018
Time	00:43:21
Number of Objects	1
Size in MB	0,010
Status	₽ Backup Completed
URI	/jd1/800/sn/sn_fidocu/s300/2001/20011231/001055/001055-001sn_fidocu.adk
Expiration Date	31.12.2002
Mand. Destr. Date	31.12.2006
Changeable Settings	
Notes	
File Name	SN_FIDOCU_20181118_004321_0.ARCHIVE
Logical Path	ARCHIVE_GLOBAL_PATH
Physical File Name	E:\usr\sap\JD1\SYS\global\SN_FIDOCU_20181118_004321_0.ARCHI
	OO■ Archive File Is Accessible

Figure 8.28 Transaction SARA: Archive File Details



Archiving Object SN META

The configuration steps described in this chapter aren't necessary for archiving object SN_META (CDE: Snapshots META - Metadata). This means that you don't need to create the archiving object. However, you must create the corresponding SAP ILM object, make the assignment to at least one audit area, and create suitable rules for the retention period.

The archiving object SN_META appears in Transaction ILM_LTRUN if you select the **CDE** option on the right-hand side of the screen (see Figure 8.29).

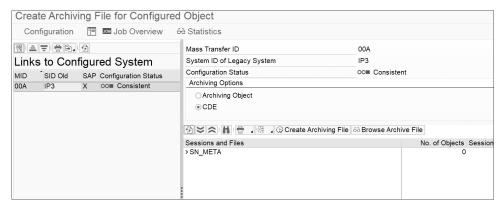


Figure 8.29 Transaction ILM LTRUN: CDE

You should always execute runs for archiving object SN_META (CDE: Snapshots META, metadata) as the last step. This ensures that the complete and current configuration of the archiving objects is taken into account.

8.5 Transferring Archived Data to the SAP ILM Retention Warehouse System

After the archiving stage in the SAP Landscape Transformation Replication Server system, you must next transfer the archive files to the retention warehouse system, convert them there (if you haven't already done so in the SAP Landscape Transformation Replication Server system, contrary to the preceding recommendation), and store them in the certified SAP ILM store that is connected to the retention warehouse system. You can use Transaction ILM_TRANS_ADMIN (Transfer of Archive Administration) for this purpose. Run this transaction in your retention warehouse system. You can see the initial screen displayed in Figure 8.30.

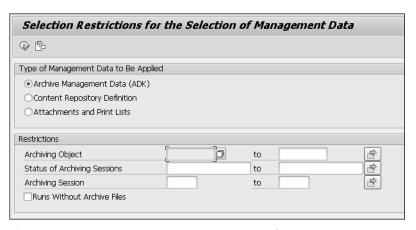


Figure 8.30 Transaction ILM TRANS ADMIN: Initial Screen

 $\lceil \langle \cdot \rceil \rceil$

The Archive Management Data (ADK) radio button is already activated as the type in the Type of Management Data to Be Applied data group. If you want, you can also make entries in the Restrictions data set. Next, select Execute (F8).

The following screen shows the three tabs **Transfer Administrative Data**, **Convert Files**, and **Store Files** (see Figure 8.31). They represent the three actions that must take place for each archive file.



Figure 8.31 Transaction ILM_TRANS_ADMIN: Transfer of Archive Administration (Initial Screen)

Click on the Connection to Legacy System button at the top of the screen, and enter the RFC connection to the legacy system (source system) once in the RFC to Source System column. Enter the Legacy System ID and Legacy System Client, as shown in Figure 8.32.

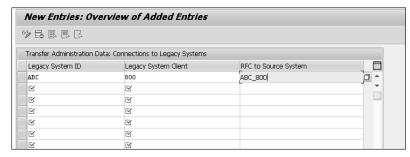


Figure 8.32 Transaction ILM_TRANS_ADMIN: Specifying the RFC Connection to the Legacy System

If the connection is specified, the legacy system is listed on the left of the screen; you can double-click on it. On each of the three tabs just mentioned, you can see archiving objects and their sessions or files that have already undergone the corresponding stage of processing. The following subsections explain the three steps in more detail.

Availabilit

Availability of Archiving Objects

To view an archiving object, you must ensure that the same archiving object (and SAP ILM object) exists in the retention warehouse system. As mentioned previously, we recommend that you transport these objects from the SAP Landscape Transformation Replication Server system to the retention warehouse system.

8.5.1 Transferring Administration Data

Let's start with the **Transfer Administrative Data** tab. In this first step, you must transfer administrative information about the archive files from the SAP Landscape Transformation Replication Server system to the retention warehouse system. This administrative information includes, for example, the session number and the number of allocated archive files. Select an archiving object, and click the **Data Transfer** button.

Transfer Administration Data for Several Sessions

To transfer the administration data for several sessions, you can select several sessions, select the archiving object, or even select several archiving objects.

In the popup window that appears, select the desired processing option in the **Processing Options** data set (see Figure 8.33). Enter the **Start Date** and the **Spool Parameters** as usual. Then schedule the transfer using the **Schedule** button in the popup window. As usual, you can monitor the background processes using the **Job Overview** button.

The transfer of the administration data leads to the creation of a new session (with a new session number) in the retention warehouse system for each session in the SAP Landscape Transformation Replication Server system.

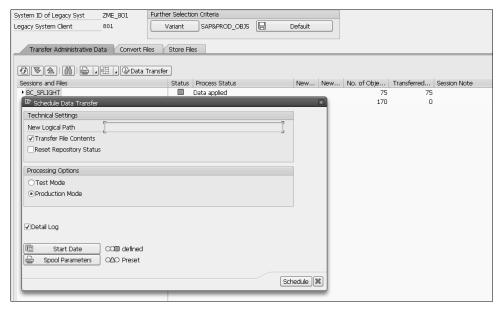


Figure 8.33 Transaction ILM TRANS ADMIN: Transfer Administration Data

Transfer File Content or Not?

If you've set up a shared file system between the SAP Landscape Transformation Replication Server and retention warehouse systems during the configuration stage, it's

 $\lceil \langle \langle \rangle \rceil$

However, if this isn't possible, activate the **Transfer File Contents** checkbox. In this case, the content of the archive files in the source system is also read and copied to the target system via RFC, in addition to the administration data.

8.5.2 Converting Files

The next or the second step is the *file conversion*. Here, the SAP ILM retention rules are determined for the data in the archive file. You can find the basics on this subject in Chapter 2, Section 2.6.6.

[>>]

SAP ILM-Enabled Archive Files?

If the archive files that you transfer to the retention warehouse system are already SAP ILM-enabled (sorted), the file conversion step isn't necessary. These files are already displayed as converted. Project experience has shown that it's advantageous to do this already in the SAP Landscape Transformation Replication Server system.

Select the **Convert Files** tab, select an archiving session, and then click the **File Conversion** button. In the popup window that appears next, select the desired processing option in the **Processing Options** data set and the desired scope of log information (**Detail Log and Log Output**), as shown in Figure 8.34. Under **Technical Settings**, the **With Conversion** checkbox must be activated.

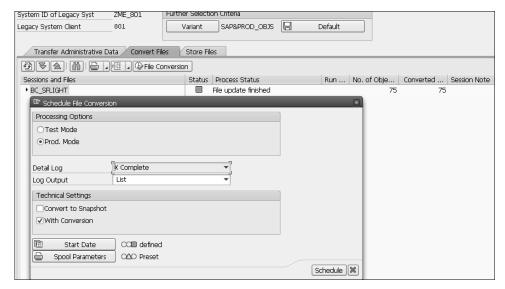


Figure 8.34 Transaction ILM TRANS ADMIN: Convert Files

Procedure for Archiving Object SN_META

The archiving object SN_META (CDE: Snapshots META, Metadata) is a special case in which the **With Conversion** checkbox does *not* have to be activated. Instead, you must select the **Convert to Snapshot** checkbox.

Enter the **Start Date** and **Spool Parameters** as you did before, and then schedule the conversion using the **Schedule** button in the popup window. Here, too, you can monitor the background processes using the **Job Overview** button.

8.5.3 Storing Files

The last or third step is the *file storage* where the archive file is stored here in the SAP ILM-enabled storage. The retention rule, which also provides the information about the retention period, will determine the SAP ILM-enabled storage used for this. This step must be carried out for all archive files that contain data from the legacy system and that are to be stored in the retention warehouse system.

Automatic Storage after Conversion

If you use Transaction ILM_TRANS_ADMIN (Transfer of Archive Administration), you must always store the archive files as described in this section. Automatic storage after the conversion stage isn't possible. (Related settings in the technical settings of archiving object-specific Customizing [Transaction SARA]—that is, the **Start Automatically** checkbox in the **File Archiving in Storage System** group—aren't taken into account here.)

Select the **Store Files** tab, select an archiving session, and click the **File Archiving** button. In the popup window that appears, enter the **Start Date** and **Spool Parameters** as usual (see Figure 8.35).

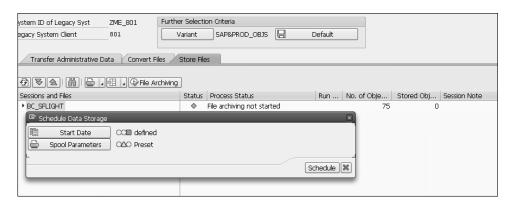


Figure 8.35 Transaction ILM TRANS ADMIN: Storing Files

 $\lceil \kappa \rceil$

Then schedule the implementation using the **Schedule** button in the popup window. As usual, you can monitor the background processes using the **Job Overview** button.

After you've carried out all the steps described in this section, the data to be shut down has arrived in its new home, the SAP ILM retention warehouse system. The associated retention periods are also known to the system. Now we can discuss the reporting of this data.

8.6 Reporting in the SAP ILM Retention Warehouse System

Finally, we'll deal with the subject of reports that you can carry out on shutdown data. At the beginning of this chapter, we discussed scenarios in which this may be necessary, together with the question of why the data should be transferred to the retention warehouse system at all (Section 8.1).

We'll now look at the reporting functions and their benefits in more detail. First, you'll learn how a report can be executed in a shutdown system, as compared to in a productive system. Second, we'll introduce the reporting tools that are available to carry out reporting in a shutdown system, which is followed by a detailed example of how to use local reporting. Finally, we'll provide you with some insights in accelerated reporting and in the application of SAP BusinessObjects Business Intelligence (BI) to optimize your reporting.

8.6.1 Reporting Data and Process Flow

Table 8.1 shows you the differences in reporting data in productive systems compared to reporting data from shutdown systems.

Aspects	Productive System	SAP ILM Retention Warehouse System
Reporting reason and necessities	Productive use of data	Retention warehouse-specific reasons, such as audits; reporting must be tailored for such reasons.
User	Many different users with different roles	Limited set of users; users with access rights to data from shutdown systems.
Data access pattern	Versatile: access to individual documents as well as reporting on a large amount of data	Access mainly to a large amount of data and using specific criteria such as fiscal year or company code.

Table 8.1 Comparison Reporting in the Productive System and in the Retention Warehouse System

Aspects	Productive System	SAP ILM Retention Warehouse System
Preparations for data access	No special preparations necessary because the data is kept in the database or archive (if necessary, suitable Archive Information System [AS] info structures)	Data preparation is necessary (in particular, specifying which data are to be reported). These are described in this section.
Output	Direct output in the allocated transactions	Mostly a download in files that are later reported elsewhere.
Data format	Very flexible	Flexible, yet you usually know in advance which fields of which tables are required.

Table 8.1 Comparison Reporting in the Productive System and in the Retention Warehouse System (Cont.)

As you know, the location of structured data in the retention warehouse system is the SAP ILM-enabled storage. This is where the archive files (ADK files) are located. They contain the data from the legacy system that you want to shut down. Certain preparations are necessary to access this data in the SAP ILM retention warehouse system. We'll describe these preparations in this section.

Determine how many *audit areas* you need and which SAP ILM objects should be assigned to them. This decision is significantly influenced by your reporting requirements for audits, inspections, and so on (refer to Table 8.1). You can gain the basic knowledge about audit areas in Chapter 2, Section 2.3.

In this context, we're now introducing a new term: *SAP ILM audit package template*. If you were to perform a report based on an audit area, this would define which SAP ILM objects may be considered (i.e., the assigned ones). In the next step, this would also determine which tables can be evaluated, that is, those that belong to the scope of the archiving object that is assigned to an SAP ILM object. At this point, you may want to make only certain tables or even only certain table fields available for an audit, for example. An audit package template serves this exact purpose. You can use it to define not only tables and table fields but also views that you want to use in reports. You can use Transaction ILMAPT (Audit Package Template Processing) to work with audit package templates (see Figure 8.36).



Figure 8.36 Transaction ILMAPT: Processing of Audit Package Templates

The next logical step is to determine the archive files you want to evaluate using a particular audit package template. The selection of suitable archive files reflects the legacy system from which you want to analyze data for specific organizational units and/or fiscal years. This is the purpose of the SAP ILM audit package. In other words, an audit package is a concrete instance of an audit package template. You can use Transaction IWPO1 (Audit Package Handling) to work with audit packages (see Figure 8.37).



Figure 8.37 Transaction IWP01 (Audit Package Handling)

Figure 8.38 shows you the entire process for this. You begin with the definition of the audit areas. On the basis of these, you create the required audit package templates. These serve as templates to create audit packages and other filter criteria with the required data for each legacy system. At this point, this data is read from the relevant archive files. Reporting can now begin on the required data. At the end, when the data is no longer required (e.g., when the audit is complete), you delete the audit package. As at the beginning of this process, the data is now only available in the shape of archive files.

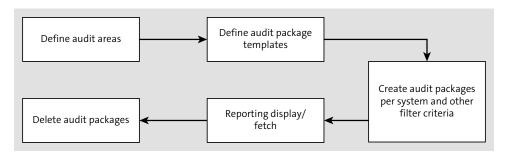


Figure 8.38 SAP ILM Retention Warehouse Reporting: Process Flow

8.6.2 Reporting Tools

Let's now look at the tools you can use to report on the shutdown data in an SAP ILM retention warehouse system:

Local reporting

Local reporting (Section 8.6.3) is a generic reporting tool that SAP ILM provides in the retention warehouse system. Local reporting is similar to the Data Browser (Transaction SE16). At the level of table names and field names, you can restrict which data

will be displayed. An export function allows you to export the data to Microsoft Excel. Another function is the download of large amounts of data in a background job.

Local reporting aims to produce ad hoc reports and simple reports. This refers to all reports where selection using tables and fields meets the requirements. Local reporting also allows you to define views to map join relationships between tables from the legacy system.

■ Accelerated reporting

The accelerated reporting variant accelerates reporting on shutdown data and enables the use of SAP BusinessObjects BI tools. Tools that can connect to ABAP tables in the SAP system are suitable.

8.6.3 Reporting Example with Local Reporting

We'll now describe the possible procedure for local reporting using an example scenario. To do this, we'll start from the following requirement: Deliveries, financial accounting documents, and billing documents from a legacy system with the ID BB2 are supposed to be reported on in the retention warehouse system. In detail, the documents from sales organization SOC and fiscal year 1999 are to be used for reporting. Access should only be granted to special tables and their fields. The corresponding list is available to you.

Your first task is to define the required audit area and assign the required SAP ILM objects in it. Because only certain tables should be available for reporting, you can store these in the definition of your audit area.

Restriction to Tables and/or Table Names

The restriction to tables and/or table names in the audit area is recommended if it applies to all reports based on this audit area. We'll show you another option for this in this section. In other words, for the audit area, select the tables and/or table names that represent the maximum possible number of accesses for the respective audit area. Don't select fields that you'll never need.

You use a function that is available specifically for this purpose, in the context of the SAP ILM retention warehouse scenario (for this reason, we didn't describe it in Chapter 2, Section 2.3). Select the corresponding SAP ILM object, and click on the **Select Tables and Fields** button (see Figure 8.39).

In the **Selection** column on the right, select the tables required for the report (see Figure 8.40).

 $\lceil \kappa \rceil$

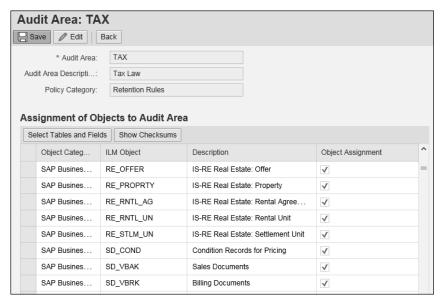


Figure 8.39 Transaction ILMARA: Selecting Tables and Fields for an SAP ILM Object (1)

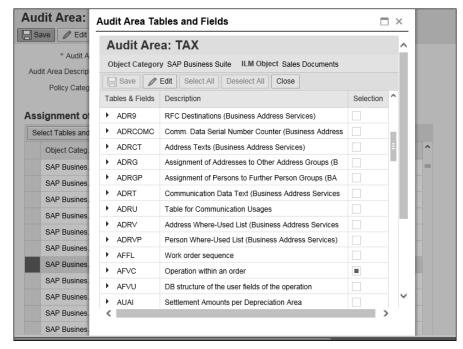


Figure 8.40 Transaction ILMARA: Selecting Tables and Fields for an SAP ILM Object (2)

Next, run Transaction ILMAPT (Audit Package Template Processing), select the required audit area, and click on the **New** button (see Figure 8.41). A popup window opens in

which you make the required entries (the figure shows an example of local reporting). Confirm your entries with **OK**.



Figure 8.41 Transaction ILMAPT: Creating an Audit Package Template

As shown in Figure 8.42, you can further restrict the number of tables and fields already defined in the audit area (to meet the specific requirements of the report you're preparing). Click **Save**, and enter a transport request that you've already created.

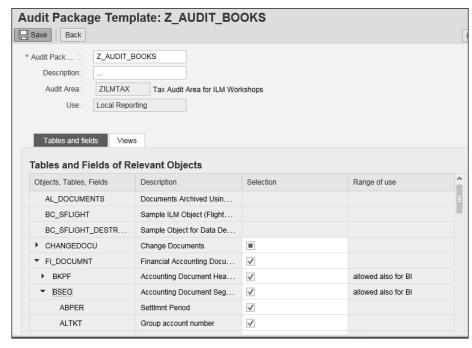


Figure 8.42 Transaction ILMAPT: Creating an Audit Package Template, Selection of Tables and Fields

[>>]

Reusing Audit Package Templates

You can of course use the audit package template more than once if there are repeated reporting requirements that it describes appropriately.

The next step is to access the corresponding archive files and read the required data. Before we get to this, we recommend that you activate the *optimized retention ware-house* in IMG now. This has the effect that when data is loaded from archive files, a Data Dictionary (DDIC) table is created for each table that is read from the archive. The data for which you want to run reporting is temporarily stored there, which leads to better performance (for more information, Section 8.6.4).

Run Transaction SPRO (Customizing – Edit Project), select SAP Reference IMG, and then follow the path SAP NetWeaver • Application Server • Basic Services • Information Lifecycle Management • Retention Warehouse • Generic Settings • Enable Optimized Retention Warehouse (see Figure 8.43). Select the Enable Optimized RW checkbox shown in Figure 8.44.

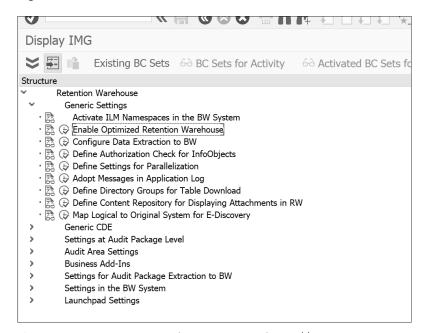


Figure 8.43 Activate Optimized Retention Warehouse (1)



Figure 8.44 Activate Optimized Retention Warehouse (2)

Enough of preparations—now we get to the creation of the audit package. You need the audit package because all SAP ILM retention warehouse reports are based on it. The audit package describes exactly from which archive files (and therefore from which clients in which legacy systems) you make which data (via archiving objects and their tables and fields) available for reporting purposes. Run Transaction IWPO1 (Audit Package Handling). The screen shown earlier in Figure 8.37 appears. Click on the button for creating new entries. The screen shown in Figure 8.45 appears next.

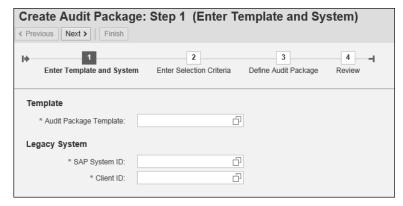


Figure 8.45 Transaction IWP01: Processing of Audit Packages (1)

Select the audit package template that you want to use as the basis for your audit package. Specify the legacy system (SAP System ID) and client (Client ID) from which you want to use data for reporting. Click Next and make the required entries in the following screens (see Figure 8.46 for an example).

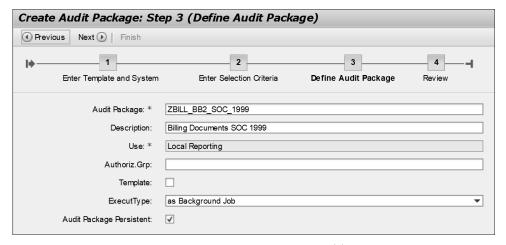


Figure 8.46 Transaction IWP01: Processing of Audit Packages (2)



Selection of Archive Files

You can't select archive files manually! This isn't necessary because the system decides on the appropriate archive files based on all your previous entries.

After you've finished creating the audit package, two background jobs are scheduled:

■ CREATE_<PRÜFPAKET_NAME>

This job creates certain metadata for the audit package and determines the list of relevant archive files (URIs).

■ IWP_CREATE_DP_*

This job reads the relevant archive files and inserts the read data into generated tables.

After both background jobs are finished, you can start reporting the data. We'll show you this using the example of local reporting.

Run Transaction IWPO1 (Audit Package Handling). The screen shown in Figure 8.47 appears. Select the line containing the audit package template that you want to use as a basis for your evaluation. Select Local Reporting • Display Table or Create File.

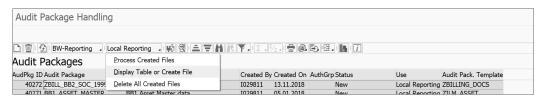


Figure 8.47 Transaction IWP01: Start Local Reporting

In the next step, select the table that you want to report on (**Structure** column in Figure 8.48). The system informs you in the upper part of the screen whether files with corresponding data already exist. If not, you can use the following buttons to decide how you want to proceed with the required data:

■ Display Data

Click this button to load and display the data from the archive files.

■ Create File

Click this button to load the data from the archive files and download it to a file.

Depending on which option you choose, the subsequent images will differ slightly because you only need to enter file names in the second case. If the data you want to see is a large amount of data, we recommend that you download the data into a file.

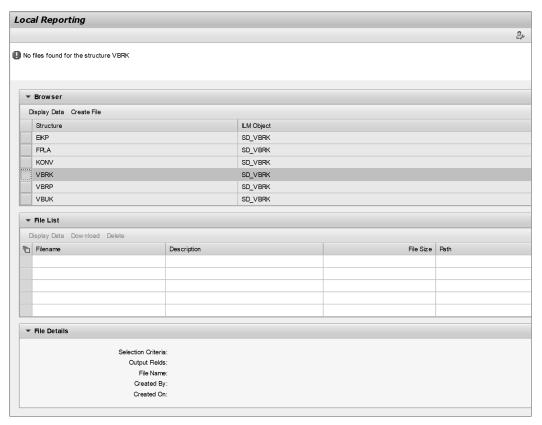


Figure 8.48 Transaction IWP01: Display Data or Create File

In the next step, you can define the desired selection criteria (see Figure 8.49). To do this, you can select any of the fields in the table using the corresponding buttons.

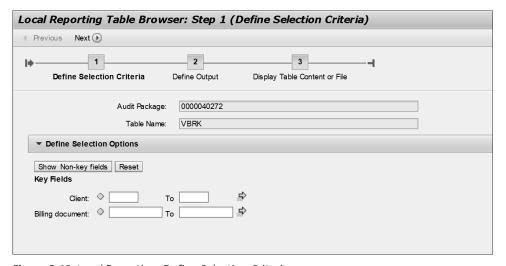


Figure 8.49 Local Reporting: Define Selection Criteria

In step 2, **Define Output**, you determine the maximum number of records and which table fields are to be displayed (see Figure 8.50).

Local Reporting Table Browser: Step 2	(Define Output)
Previous Next	
Define Selection Criteria Define Output	Display Table Content or File
Audit Package: 0000040272 Table Name: VBRK	
▼ Output Options	
Maximum Number of Records:	200
▼ Select Output Fields	
Select All Remove All Show only Key Fields	
Client:	✓
Billing document:	✓
Billing type:	✓
Billing category:	
SD document category:	▼ ▼
SD document currency: Sales organization:	▼
Distribution channel:	✓
Pricing procedure for sales and distribution:	✓

Figure 8.50 Local Reporting: Define Output

As a result you'll see a preview of the requested data (see Figure 8.51). It consists of 200 records. (As you can see from the figure, the **Create File** option was selected here beforehand because the system asks for file names.)

After you've made all the entries, click on **Create** in the top-left corner. The system creates a background job that now executes the required tasks (see Figure 8.52).

[>>]

File Format

The format of a file that you can create in this way is the Audit *Information System* (AIS) format.

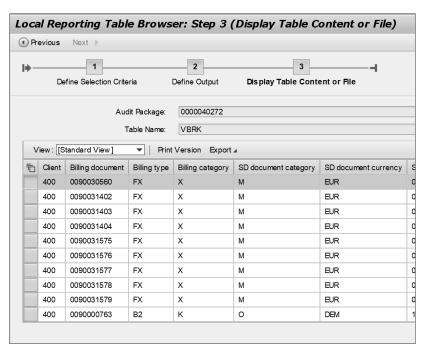


Figure 8.51 Local Reporting: Display table Content or File (Preview)



Figure 8.52 Local Reporting: Job for File Creation

Export to Excel



The **Export** button is available in two places: when previewing the data (refer to Figure 8.51) and when displaying the desired data, that is, after you've selected **Display Data** in Figure 8.53. Keep in mind that this may not be the best performance solution (especially in the second case) if you have a large number of records. If you deal with large amounts of data, we recommend that you choose the **Create File** button in the upper-left corner of the screen displayed in Figure 8.53.

When the job is finished, you'll see a screen like Figure 8.53; the file has been created. You can select it and display it using the **Display Data** button.

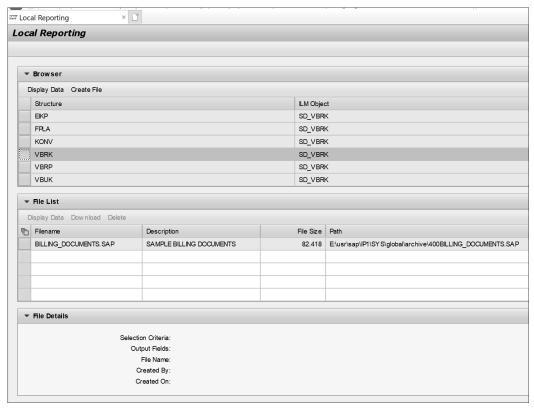


Figure 8.53 Local Reporting: File Created

8.6.4 Accelerated Reporting and Use of SAP BusinessObjects BI

Accelerated reporting is a variation of the procedure just described for reporting based on data from shutdown systems in the SAP ILM retention warehouse system. As described in the box at the end of this section, it also enables you to use certain SAP BusinessObjects BI tools.

The prerequisite for the use of accelerated reporting is the activation of the optimized retention warehouse, as shown earlier in Figure 8.43 and Figure 8.44. This activation has the effect that when data is loaded from archive files, a DDIC table is created for each table. The table generation takes place when an audit package is created. The data for which you want to run reporting is temporarily stored there, which leads to better performance. The generated tables contain all the fields of the respective table as they existed in the SAP Landscape Transformation Replication Server system (and in the legacy system if the legacy system was an SAP system) for this table. They also contain a field with the URI of the archive file that contains the corresponding data.

Let's now turn to the advantage of this approach. It becomes evident as soon as you create more than one audit package for the same table from the same legacy system and

client. (It doesn't matter whether you use the same audit package template or not.) In this case, the generated table is used. A table view is generated to distinguish the data that belongs to the different audit packages. This view contains the URIs of the archive files that are used as filter criteria.

You can see the generated DDIC objects by choosing an audit package and selecting the **Display Optimized Content** button in Transaction IWPO1 (Audit Package Handling) (see Figure 8.54). You can see the result in Figure 8.55.



Figure 8.54 Accelerated Reporting: Display Optimized Content Button

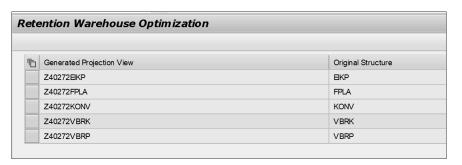
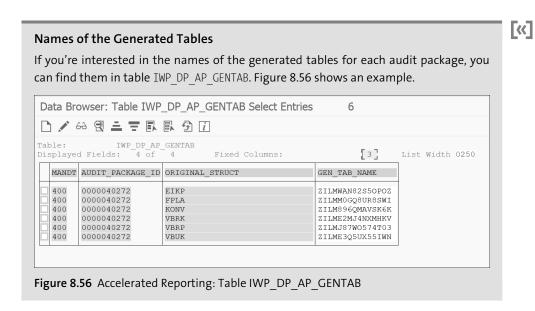


Figure 8.55 Accelerated Reporting: Optimized Content





Use with SAP BusinessObjects BI Tools

You can also analyze the data loaded into the generated tables with generic reporting tools such as those from SAP BusinessObjects BI. In our case, all tools that can connect to ABAP tables in the SAP system can also connect to the generated tables in SAP ILM retention warehouse.

8.7 Summary

This chapter described how to use SAP ILM to shut down legacy systems. We began by discussing some of the underlying issues of legacy systems and then moved on to the system architecture in an SAP ILM retention warehouse scenario. Next, we discussed moving your data: how to replicate it from a legacy system, archive it, and then transfer it into an SAP ILM retention warehouse. We closed the chapter with a discussion of reporting on retention warehouse data.

Contents

Fore	word by t	the Fathers of SAP ILM	15
Forev	word by [DSAG	17
Forev	word by S	SAP SE Chief Financial Officer	19
Prefa	ce		21
1		oduction to SAP Information Lifecycle lagement	25
1.1	From [Data Archiving to Information Lifecycle Management	25
1.2	Retent	tion and the Law	32
	1.2.1	Organization and Retention in Accounting	32
	1.2.2	Organization and Social Partnership	33
	1.2.3	Retention in Human Resources	34
	1.2.4	Retention and Data Privacy	35
	1.2.5	Retention and Special Legal Sources	37
1.3	Summ	ary	38
2	Basi	c Functions in SAP ILM	39
2.1	Archiv	ing Object and Data Destruction Object	39
2.2	SAP IL	M Object: The King of the Retention Rules	40
2.3	Audit	Area: A Reason to Define Retention Rules	45
	2.3.1	List of Existing Audit Areas: Transaction ILMARA	46
	2.3.2	View and Modify Audit Areas	48
	2.3.3	Create Audit Areas	49
	2.3.4	Copy or Merge Audit Areas	50
	2.3.5	Object Assignment	52
	2.3.6	SAP ILM Actions Group in the Archive Write Program	55
	2.3.7	Compatibility with Archiving Objects	58
2.4	Policy	Categories	60
2.5	Policie	ss	63
	2.5.1	Object Category	63

2.5.3 Special Characters in Co	ondition Fields: Transaction IRM_CUST_CSS
2.5.4 Creating Rules in a Police	<u></u>
2.5.5 Differences between Re	etention Rules and Residence Rules
2.5.6 Facilitating Rule Mainte	enance with Rule and Object Groups
	25
	d Rules
	Specific Objects in Information Retention
_	, and SAP ILM Store Browser
	tured Data in the SAP ILM Store
	cores
	Service for SAP ILM Stores
_	Stored in the SAP ILM Store? 1
	iles and Original Documents1
•	iles 1
2.6.7 SAP ILM Store Browser	1
2.6.8 Archive Routing and SA	P ILM 1
2.7 Data Destruction Functions	1
2.7.1 Methods of Data Destru	uction 1
2.7.2 Destruction from the D	atabase via an Archiving Object1
2.7.3 Destruction from the D	atabase via a Data Destruction Object 1
2.7.4 Archive Files from the C	Tertified SAP ILM Store 1
2.7.5 Transaction ILM_CHAN	GE_RET 1
2.7.6 Enhancement Spot ES_	ILM_DESTRUCTION 1
2.8 Required Business Functions	1
2.9 Required HTTP Services	1
2.10 SAP ILM Roles and Transaction	s 1
2.11 Summary	1
2 A J J'4! I F 1!	in Determine Management
3 Additional Functions	in Retention Management 1
3.1 SAP ILM Notifications	1
	rta Issue 1
	Blocking and Deleting Personal Data 1
•	ation of SAP ILM Notifications 1
_	thive Management 1

3.3	SAP IL	M Work Center	1			
	3.3.1	Archiving and Prerequisites	1!			
	3.3.2	SAP ILM Archiving Work Center	1			
3.4	SAP ILM Store					
	3.4.1	Architecture Overview	1			
	3.4.2	Settings in the SAP ILM Store System for Structured Data	1			
	3.4.3	Settings in the Leading System for Structured Data	1			
	3.4.4	Settings in the SAP ILM Store System for Unstructured Data	1			
	3.4.5	Settings in the Leading System for Unstructured Data	1			
	3.4.6	Further Information	1			
3.5	Data C	ontroller Rule Framework	1			
	3.5.1	Business-Related Abstraction	1			
	3.5.2	Functions and Configuration of the Data Controller Rule Framework	1			
	3.5.3	Advantages of Using the Data Controller Rule Framework	2			
3.6	l egal (Case Management	2			
5.0	3.6.1	Overview and Display of Existing Legal Cases	2			
	3.6.2	BOR Object Types and Their Relation to SAP ILM Objects	2			
	3.6.3	Create or Modify Legal Case	2			
	3.6.4	Set Legal Case	2			
	3.6.5	Extraction of Data Objects with Legal Hold	2			
	3.6.6	Close or Delete Legal Case	2			
3.7	Summ	ary	2			
4	Sim	olified Blocking with SAP ILM	2			
4.1	How C	DPR Influenced SAP ILM Innovation	2			
4.2	Overv	ew of Solutions	2			
4.3	Prepai	atory Steps	2			
	4.3.1	Blocking Master Data in Transaction SPRO	2			
	4.3.2	Blocking Transactional Data in Transaction SPRO				
	4.3.3	Blocking Master Data in SAP ILM	:			
	4.3.4	Blocking Transactional Data in SAP ILM				
	4.3.5	Blocking and Deleting Master Data: Variants of Application Rules				
	426					
	4.3.6	Archiving Master Data and Transactional Data				
	4.3.6 4.3.7	Archiving Master Data and Transactional Data Dependent and Central Master Data System				
4.4	4.3.7	_	4			

	4.4.2 Viewing Blocked Transactional Data in a Business Process .	
	4.4.3 Blocking Master Data in a Business Process	
	4.4.4 Local EoP Check (Interim Check without Setting Completion	_
	4.4.5 Viewing of Blocked Master Data in a Business Process	
	4.4.6 Unblocking Master Data in a Business Process	
	4.4.7 Possible Combinations and Sequences	
4.5	Summary	
5	Blocking and Destruction with SAP ILM in	
	SAP S/4HANA Cloud	
5.1	SAP S/4HANA Cloud vs. SAP ERP and SAP S/4HANA	
5.2	Required User Roles and Business Catalogs	
5.3	Audit Areas	
5.4	SAP ILM Objects	
5.5	Policies	
5.6	Object Groups and Rule Groups	
5.7	Business Rules Management Application	
5.8	Archiving	
	5.8.1 Planning Archiving Jobs	
	5.8.2 Planning a Destruction and Storage Job	
	5.8.3 Monitoring Archiving Jobs	
	5.8.4 Display of Archived Data	
5.9	Blocking Master Data	
5.10	Managing SAP ILM Business Rules	••••••
5.11		
	5.11.1 Data from the Database via an Archiving Object	
	5.11.2 Data from the Database via a Data Destruction Object	
	5.11.3 Stored Archive Files	••••••
5.12	Summary	
6	Blocking and Destruction in SAP ERP HCM	
6.1	Blocking and Destruction in SAP ERP HCM Fundamentals and Special Characteristics of SAP ERP HCM	

	6.1.2	Laws and Regulations
	6.1.3	Implementation Project
	6.1.4	Analysis of Existing and Destruction-Relevant Data in SAP ERP HCM
	6.1.5	Controlling Data in SAP ERP HCM according to Data Privacy
		Regulations
	6.1.6	Test Management and Performance
6.2	Contro	lling Authorizations in a Specific Period in SAP ERP HCM
	6.2.1	Time-Dependent Authorizations
	6.2.2	Default Authorization Periods
	6.2.3	Role-Specific Authorization Periods
	6.2.4	Time-Dependent Access to Payroll Results
	6.2.5	Additional Period-Dependent Enhancement Options
	6.2.6	Time-Dependent Access Control in Reporting
	6.2.7	Time-Dependent Access Restriction to Complete Personnel Files
6.3	Data D	estruction in SAP ERP HCM with SAP ILM
	6.3.1	Basics
	6.3.2	Realization of Data Destruction in SAP ERP HCM
	6.3.3	Deletion System
	6.3.4	Configuration
	6.3.5	Data Destruction Procedure
	6.3.6	Example Scenario with the Archiving Objects HRTIM_ABS and
		HRTIM_QUOT
	6.3.7	Sequence
	6.3.8	Authorization Concept
	6.3.9	Customer Extensions
	6.3.10	HR Process Workbench for Data Destruction
	6.3.11	Blocking the Destruction: Veto
6.4	Compl	ete Deletion of a Personnel File in SAP ERP HCM
	6.4.1	Classic Programs RPUDELPN and RPUDELPP
	6.4.2	New Destruction Object HRPA_PERNR
6.5	Furthe	r Destruction-Relevant Data in SAP ERP HCM
	6.5.1	Logging Infotypes
	6.5.2	Processing Logs (Application Log)
	6.5.3	Billing Data, Time Evaluation Results, and Travel Data
	6.5.4	Work Items and IDocs
6.6	Inform	ation Request by an Employee
6.7	Overvi	ew of Functions and Transactions
6.8	Summa	ary
		-,

7	Imp	lementing an SAP ILM GDPR Project	43			
7.1	Overv	iew	. 43			
7.2	Stages of an SAP ILM GDPR Project					
	7.2.1	Preparatory Steps	. 43			
	7.2.2	Analysis	. 44			
	7.2.3	Scope of Analysis	. 44			
	7.2.4	Limits of Analysis	. 44			
	7.2.5	Analysis as a Prerequisite for Planning the Implementation	. 44			
	7.2.6	Implementation and Testing				
	7.2.7	Go-Live and Productive Use	. 45			
7.3	Comp	lex System Landscapes in an SAP ILM GDPR Project	. 46			
	7.3.1	Replication of Personal Master Data between Systems	. 46			
	7.3.2	Managing Different Groups of Personal Master Data	. 46			
	7.3.3	Integrating Human Resources Systems	. 46			
	7.3.4	Integrating Non-ABAP Systems	. 46			
7.4	Busin	ess Processes and Data Controller	. 46			
	7.4.1	Business Process of an Internet Company	46			
	7.4.2	Process Data and Retention Periods	. 47			
	7.4.3	Obligation to Disclose	. 47			
	7.4.4	Employee Authorizations	. 47			
7.5	Summ	nary	. 47			
8	Syst	em Shutdown with the Retention Warehouse	47			
8.1	Found	lations and Definition	. 47			
8.2	Syste	m Architecture	. 47			
8.3	Replic	ation of Data from the Legacy System	. 48			
	8.3.1	Configuration for Extraction in an SAP Landscape Transformation Replication Server System				
	8.3.2	Replication of Data from the Legacy System				
8.4	Archiv	ring Data from the Legacy System	. 49			
	8.4.1	Configuration	. 49			
	8.4.2	Running an Archiving Procedure via the Legacy Extraction Workbench	. 49			

8.5		erring Archived Data to the SAP ILM Retention Warehouse
	8.5.1	Transferring Administration Data
	8.5.2	Converting Files
	8.5.3	Storing Files
3.6	Report	ting in the SAP ILM Retention Warehouse System
	8.6.1	Reporting Data and Process Flow
	8.6.2	Reporting Tools
	8.6.3	Reporting Example with Local Reporting
	8.6.4	Accelerated Reporting and Use of SAP BusinessObjects BI
.7	Summ	ary
9		aging the Data Lifecycle of Custom Code
	With	SAP ILM
9.1	Decisio	on Criteria for an SAP ILM Connection
9.2	SAP IL	M Compatibility with the Archiving Object
.3	SAP IL	M Compatibility with the Archive Write Program
	9.3.1	Prerequisite: Standardized Classical Archiving Object
	9.3.2	Implementing the Three SAP ILM Actions
	9.3.3	Enhancements for Calling ARCHIVE_OPEN_FOR_WRITE
	9.3.4	Extensions When Running ARCHIVE_SAVE_OBJECT
	9.3.5	Extensions When Running ARCHIVE_PROTOCOL_COLLECT
.4	Data D	Destruction Object: An Alternative to an Archiving Object
	9.4.1	Developing a Data Destruction Object
	9.4.2	Developing a Data Destruction Program
	9.4.3	Developing a Preprocessing Program
9.5	Creati	ng an SAP ILM Object: Transaction IRM_CUST
	9.5.1	Preparatory Steps
	9.5.2	Overview of Required and Optional Steps
	9.5.3	Time References to Determine the Beginning
	9.5.4	Time Offsets for Start Determination
	9.5.5	Standard Condition Fields
		- · · · · · · · · · · · · · · · · · · ·
	9.5.6	Optional Settings
	9.5.6 9.5.7	Optional Settings Header Data of the SAP ILM Object

	9.5.9	Object Category-Specific Settings for the SAP ILM Object	565
	9.5.10	Checking the Quality of the SAP ILM Object	586
	9.5.11	Transaction ILMSIM: Simulation of Rule Evaluation	589
9.6	Summa	ary	590
App	endi	ces	591
Α	Refere	nces	591
В	The Au	thors	593
Index			597

Index

A		Archive write program (Cont.)	
		runtimes	530
ABAP Workbench	532	variant	
Absence types		vs. data destruction program	
Accelerated reporting		Archived data	
Accounting		Archiving	
Accounting principles		classes	
Activate business functions	136	groups	
Addresses		personal master data	
Application classes		projects	
Application Link Enabling (A		run	
Application logs		sessions	
Application names		subobjects 353, 3	
Application rule variants (A	RVs) 247,250,	unsorted files	
311		Archiving jobs	
Application rules		failed	
Archivability checks		in process	
Archive administration		Archiving objects 39, 41, 101, 15	8, 186, 302
Archive administration man		347, 349, 352, 521	
Archive Development Kit (A	ADK) 58, 169, 349,	availability	
442		BC_SFLIGHT	
data archiving		BOR	
Archive Explorer		compatability	
Archive Explorer app		country-specific	
Archive file conversion		customer-specific	
Archive files		Customizing	
conversion		data archiving	
delete		destroy data	
destruction		destruction from database	
destruction prequisites		develop customer-specific	
displayed information		e-recruiting	
existing		generate	
from SAP ILM store		linking	
local vs. temporary		mini	
retention period		naming	
selection		PA_LDOC	
single run		policies	
Archive Information System		rule groups	
(AS)	134, 305, 529	SAP ERP HCM	
Archive management	454	SAP ILM compatability	
enhancements		SAP S/4HANA Cloudsearch	
filter			
search		SN_META	
Archive routing		sort criteria	
Archive run		standardized classical	
schedule		structure	
Archive write program	55-56,60-61,227,	subtasks	
315, 495–496, 525	500	without preprocessing program	
error messages	530	write and delete program	3/.

Archiving variants298	BAdI (Cont.)
create	BADI IRM OC SF 551, 564
details 300	BADI IRM OT FLD 395, 455, 569
list	BADI_IRM_OT_FLD_F4562
preprocessing 301	BADI_IRM_OT_INHERITANCE_OFFER 555
Asynchronous deletion 135	BADI_IRM_OT_INHERITANCE
Asynchronous notification	USE 554, 580
Audit areas 45, 201, 505	BADI IRM OT STT 395, 455, 557, 572
archiving77	BADI_IRM_RELATIONS579
copy51	BADI_IRM_TO551, 575
create	BUP_PARTNER_EXLIST 457, 463
framework47	BUP_PARTNER_KEYMAP462
general47	BUPA_PURPOSE_EXPORT457, 468
list46	CVP_EOP_MAP_REMOTE_PARTNERS 462
merge51	CVP EOP MODIFY SELECTION457
naming48	HRARCH_B_CREATE_DUMMY_DATA 395
object assignment51	HRARCH B DATA BLOCKING396
residence rules49	HRARCH_B_FILTER_AO_SUBGROUP 396
restrict tables for reporting 509	HRARCH_B_INCLUDE_AO_
SAP releases47	SUBGROUP396
SAP S/4HANA Cloud289	HRPA B CHK DATA395
SAP-provided48	HRPA B DATA CREATER395
view/modify48	HRPA B DATA OBJ395
Audit Information System (AIS) 327, 514	HRPA_B_DESTRUCTION_LOG395
Audit package templates 52, 505	HRPA_B_GET_CONFIG396
processing 508	HRPA B GET SUBGRP396
resuse 510	HRPA_B_RETRO_LIMIT396
Audit packages 506, 516	HRPADOOAUTH TIME 334, 338, 340,
background jobs512	342, 344
create 511	BC SFLIGHT DESTRUCTION object532
generated tables517	BC-ILM certification 28, 87, 93, 106, 109, 111,
handling 511	120
Authorization groups 76, 196, 230–231, 260	Bequeathing instances580
naming 231	Billing data421
Authorization objects 231, 339, 410	Blocked customer276
Authorizations	Blocking 32, 36
checks 346	background jobs308
profiles 346	business functions229
	business-related view259
В	destruction398
	master data308
BAdI 395, 454	phase222
ARC_CONV_APPL_TABS_OBJ585	report454
ARC_CONV_APPL_TABS_RUN585	schedule310
BADI_ILM_DESTR_FILE_VETO133	start new job310
BADI_ILM_DESTR_WITH_ARKEY 92, 134	Branches90
BADI_ILM_PRE_DESTR_FILE_ACTION 135,	Braunschweig model46
456	Business Application Programming Interface
BADI_ILM_PRE_DESTR_OBJ_ACTION 135,	(BAPI)405
456	Business catalogs289
BADI_ILM_STOR_CLIENT174	Business Object Repository (BOR) 205, 519
BADI_IRM_NOTIFICATION 149, 583	object 225, 398, 545

Business Object Repository (BOR) (Cont.)	Country grouping 374
object type207	Custom code 519
object type mapping577	decision criteria 519
object types 149, 210	SAP ILM connection 521
Business objects43	Customer master data230
data retention 520	Customer-specific applications 458
data retention laws544	Customer-specific Customizing
develop 533	deletion periods 357
enable 524	Customer-specific enhancements 434
mass data 520	Customer-specific tables 447
Business partner data privacy47	-
Business partners	D
Business rules 198	
	Data aging 521
C	Data archiving25, 27, 47, 90, 162–163,
	220, 528
Central business partner 230, 308	administration165–166
Central master data system255	classical28
Central person (CP)	jobs164
Change documents538	time period 166
Check authorization	write data 164
Check date period236	Data Browser
Client-dependent Customizing	Data collection
Client-independent basic and object	Data controller
Customizing	Data controller rule framework 78,182–183,
Client-specific logging tables418	188, 370
Cluster files	advantages 203
Company code	business abstraction
Condition fields 66, 198, 201, 360, 366,	condition fields 191
451, 543	configuration
available560	data controller
data element/data type561	default audit area
default564	define data controller 191
indirect value determination	define organization entity 189
<i>input help</i> 561	define purpose
<i>manditory</i>	maintenance effort
<i>multiple</i>	organizational units
pairs of tables/fields569	rule maintenance
special characters67	settings
standard551	time reference/time offset
standard available	Data destruction 55–56, 315, 347, 460, 523
technical attributes	archive system 445
value determination	archiving objects
Conditions	authorization concept
Conditions area80	authorization objects
Conditions area of a rule65	customer extensions
Content management system (CMS)	functions
Content repository	job overview
activate certificate	logging
Context Data Extractor (CDE)	methods
Contract Accounts Payable and Receivable	phases
(FI-CA)78	procedure 370, 413

Data destruction (Cont.)		Database schema	480
process	455	DDIC objects	517
process overview	370	DDIC table	516
SAP ERP HCM Customizing	358	Default authorization period	ls 334, 337–338
SAP ILM-based	436	retroactive display	337
session	376	roles	
with and without archiving	444	Delete program	388
Data destruction objects39		Deletion	
application component		Deletion obligation	
BOR		Deletion periods	
destroy data	316	reference date	
destruction from database		time references	
develop		Deletion routine	
item field		runtime	
linking		Delta replication	
minimum scope		Delta sessions	
name		Destroyed runs	
no test modes		Destruction	
origin		Destruction blockings	
preprocessing		Destruction date	
preprocessing program		Destruction documents	
schedule		end date	
structure definition		Destruction objects	
Data destruction periods		HRPA PERNR	
Data destruction program		Destruction periods	
correct implementation		Destruction request	
logs		Destruction rules	
notifications		Destruction runs	· · · · · · · · · · · · · · · · · · ·
progress messages		productive mode	
Data destruction runs		restrictions	
Data economy		SAP S/4HANA Cloud	
Data elements		schedule	
Data objects 1		specifications	
extraction		status	
not written		Destruction statuses	
Data privacy		Destruction worklist	
check run		automated	
regulations		groups	
Data processing blocking		resources	
Data protection		Direct value determination	
•			
blocking		DMIS add-on	
Data provisioning		Document Relationship Brov 209–210	wsei 200–207,
Data retentionaccounting		Dual control	410 412 412
2			
human resources		Dual control principle	125
Data Retention Tool (DART)		_	
Data sorting		E	
Data subject to retention		F. 1	1.4
Data transfer		Earliest retroactive accounting	
Data types		E-Discovery	
Data volume		history	
Data volume management	447	Employee authorizations	474

Employee selection 403
Employee Self-Service (ESS) 323
Employee status
End of business (EoB)
End of purpose (EoP) 77, 146, 222
application-specific checks
check 234, 468
checks 435
custom-specific checks457
local check271
Enhancement spot
ARC_CONV_APPL_TABS584
ES_ILM_DESTRUCTION132, 456, 585
<i>ES_IRM_CUST</i> 455
HRPA_ARCH395
HRPA_ARCH_CONFIG396
HRPA_ARCH_RETRO396
Expiration date109
Expired resources
Expired resources list
Explicit time references 549
Extended master data
<u>F</u>
Faust
1 4 4 5 1
Field masking
Field masking
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ TEMPLATE
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ TEMPLATE TEMPLATE 407 HRARCH_VETO_PERNR_DEL_
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ TEMPLATE
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ TEMPLATE TEMPLATE 407 HRARCH_VETO_PERNR_DEL_
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ TEMPLATE TEMPLATE 407 HRARCH_VETO_PERNR_DEL_
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ TEMPLATE TEMPLATE 407 HRARCH_VETO_PERNR_DEL_
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ 407 HRARCH_VETO_PERNR_DEL_ 407 TEMPLATE 407
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ 407 HRARCH_VETO_PERNR_DEL_ 407 TEMPLATE 407 G General Data Protection Regulation
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ 407 HRARCH_VETO_PERNR_DEL_ 407 TEMPLATE 407 G General Data Protection Regulation (GDPR) 25, 35, 40, 145, 323
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ 407 HRARCH_VETO_PERNR_DEL_ 407 TEMPLATE 407 G 407 General Data Protection Regulation (GDPR) 25, 35, 40, 145, 323 archiving 443
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ 407 HRARCH_VETO_PERNR_DEL_ 407 TEMPLATE 407 G 407 G 407 G 443 implementation project 433 influence on SAP ILM 219 principles 325
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ 407 HRARCH_VETO_PERNR_DEL_ 407 TEMPLATE 407 G 443 implementation project 433 influence on SAP ILM 219 principles 325 Generic Object Service (GOS) 89
Field masking 228 Filter values 569, 574, 580 Filter-dependent implementation 456 Function module 407 ADDR_REFERENCE_DELETE 538 ARCHIVE_OPEN_FOR_WRITE 528 ARCHIVE_PROTOCOL_COLLECT 531 ARCHIVE_SAVE_OBJECT 529 CHANGEDOCUMENT_DELETE 538 HR_PAYROLL_SIMULATION 342 HRARCH_VETO_DATA_DEL_ 407 HRARCH_VETO_PERNR_DEL_ 407 TEMPLATE 407 G 407 G 407 G 443 implementation project 433 influence on SAP ILM 219 principles 325

Н
Health and safety regulations 34
Health regulations
HR data protection
HR master data
HR preparations
complete
HR Process Workbench 398–400, 402
HTTP connection
HTTP services
Human resources34
<u> </u>
Identical user input 129
IDocs
ILM Actions group55
ILM Audit Area app
ILM Business Rules Administration app 196
ILM Data Destruction app
Implementation project
analysis
blocking/destruction of data438
common knowledge base
complex landscape 460
The state of the s
go-live
implementation stage
integrating HR systems465
limits of analysis448
non-ABAP systems467
organizational preparation
preparation436
reorganization 441
scope of analysis446
stages 435
survey 434
technical preparation440
Implicit time references 549
Index solutions 134
Indirect value determination 544
Information lifecycle management
Information request by employee 429
Information Retention Manager 53,63-64,
80, 100, 109, 131, 227, 283, 357–358, 365, 526–527, 537
clients
constant550
object links 578
policy fields
residence periods62
rules 57, 76, 220
Tuics 31, 70, 220

Information Retention Manager (Cont.)	Legal case management204
rules applied153	Legal case-related blocks 204, 212
snapshots57	Legal cases 30, 204
time references548	add data206
unknown retention period128	attachments211
Infotypes	attributes206
0003380–381, 383	close/delete216
0283377–380, 426	create/modify206
0416	detail log214
3246 376–377	display205
5123	manual addition of objects207
access	set212
block destruction 406	specific document208
customer-specific239	variants209
data records335	Legal entities470
SAP standard355	Legal holds
validity period335	extraction of data objects214
Inherit rules74	Legal requirements 32
Inheritance554	Line organizational attributes
create 554	Local archive file101
International Financial Reporting Standards	Local reporting507
(IFRS)222	Log deletion
Internet Communication Manager (ICM) 139	Logging infotypes419
	Logical file names
J	Logical systems209
Join definitions 583	Manage Archiving Variants app
<u>L</u>	Manage Archiving Variants app
Labor laws	Manage Archiving Variants app
Labor laws	Manage Archiving Variants app
Labor laws	Manage Archiving Variants app
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490	Manage Archiving Variants app
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492	Manage Archiving Variants app
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491	Manage Archiving Variants app
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 520 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237 blocking in business process 264
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491 table relationships 493	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237 blocking in business process 264 destroy 282
L Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491 table relationships 493 tables 493	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 520 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237 blocking in business process 264 destroy 282 master system 232
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491 table relationships 493 tables in archive hierarchy 493	Manage Archiving Variants app 296 Manage ILM Business Rules app 311 Manage Your Solution app 311 Mandatory destruction date 109,123, 319,588 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237 blocking in business process 264 destroy 282 master system 232 unblocking 278
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491 table relationships 493 tables in archive hierarchy 493 vs. Transaction SARA 494	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 520 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237 blocking in business process 264 destroy 282 master system 232 unblocking 278 viewing block data 273
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491 table relationships 493 tables in archive hierarchy 493 vs. Transaction SARA 494 Legacy systems 477	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 520 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237 blocking in business process 264 destroy 282 master system 232 viewing block data 273 Master system 232, 464
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491 table relationships 493 tables in archive hierarchy 493 vs. Transaction SARA 494 Legacy systems 477 archiving data 490	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 520 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking in business process 264 destroy 282 master system 232 viewing block data 273 Master system 232, 464 connected system 233
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491 table relationships 493 tables in archive hierarchy 493 vs. Transaction SARA 494 Legacy systems 477 archiving data 490 data decision criteria 481	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 520 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237 blocking in business process 264 destroy 282 master system 232 unblocking 278 viewing block data 273 Master system 232, 464 connected system 233 EoP check 234
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491 table relationships 493 tables in archive hierarchy 493 vs. Transaction SARA 494 Legacy systems 477 archiving data 490 data decision criteria 481 data replication 481, 486	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237 blocking in business process 264 destroy 282 master system 232 unblocking 278 viewing block data 273 Master system 232, 464 connected system 233 EoP check 234 for personal master data 434
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491 table relationships 493 tables in archive hierarchy 493 vs. Transaction SARA 494 Legacy systems 477 archiving data 490 data decision criteria 481 data replication 481, 486 decomissioning 478	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237 blocking in business process 264 destroy 282 master system 232 unblocking 278 viewing block data 273 Master system 232, 464 connected system 233 EoP check 234 for personal master data 434 RFC connections 233
Labor laws 34 Last change time reference 544 Leave quotas 391 Legacy Extraction Workbench 490 archiving objects 492 configuration 491 create objects 492 legacy system information 491 mass transfer 491 run archive procedure 494 table prerequisities 491 table relationships 493 tables in archive hierarchy 493 vs. Transaction SARA 494 Legacy systems 477 archiving data 490 data decision criteria 481 data replication 481, 486	Manage Archiving Variants app 296 Manage ILM Business Rules app 295, 314 Manage Your Solution app 311 Mandatory destruction date 109,123, 319, 588 Mass data 520 Mass transfer ID 491–492, 494 Master data 225, 472 archiving 254 block 226 block record 242 blocking 229, 237 blocking in business process 264 destroy 282 master system 232 unblocking 278 viewing block data 273 Master system 232, 464 connected system 233 EoP check 234 for personal master data 434

Metadata SAP ILM objects 524 Period ID 338 Minimum retention periods 61,70 assign 335 Nonitor Archiving lobs app 303 authorization period 335 N Period-dependent authorization control 335 Period-dependent blocking of HR master data 322 components 147 Personal data 35, 145, 322 configuration 146 deleting distributed data issue 144 distribution 144 deleting personal data 145 lifecycle 222 functions 146 distribution 144 deleting gerearial 145 lifecycle 222 functions 146 distribution 144 generation 150 processing 35 log data 151 logdata 151 processing 144 resplicated dystem 46 supported processes 148 replication between systems 46 Object catalog entry 535, 546 Object work list (POWI.)	Maximum retention time	367	PDC recalculation field	383
Nonitor Archiving Jobs app 303	Metadata SAP ILM objects	524	Period ID	338
Notifications	Minimum retention periods	61, 70	assign	339
Notifications	Monitor Archiving Jobs app	303	authorization period	339
Notifications			Period-dependent authorization control	l 333
Notifications 143,540,582 data 32,200000000000000000000000000000000000	N		personnel data	346
components 147 Personal data 35, 145, 326 configuration 146 analytical use 144 deleting idistributed data issue 144 distribution 144 deleting personal data 145 lifecycle 222 functions 146 processing 33 GDPR obligations 145 transactional use 146 generation 150 Personal master data 43 log data 151 blocking 45 maintain for objects 149 local 46 processing 144 managing groups 46 supported processes 148 replicated system 46 supported processes 148 replicated system 46 supported processes 148 replicated system 46 object categories of 63, 79, 292, 564 60 45 Object categories of 63, 79, 292, 564 60 Personnel Administration (PA) 228, 33 Object categories of 63, 79, 292, 564 Personnel cases 330, 401 <td></td> <td></td> <td>Period-dependent blocking of HR maste</td> <td>r</td>			Period-dependent blocking of HR maste	r
Configuration	Notifications143	3, 540, 582	data	324
deleting distributed data issue 144 distribution 146 deleting personal data 145 lifecycle 22: functions 146 processing 33: GDPR obligations 145 transactional use 144 generation 150 Personal master data 43: log data 151 blocking 45: maintain for objects 149 managing groups 46: processing 144 managing groups 46: supported processes 148 replicated system 46: supported processes 148 replication between systems 46: second master system 46: 46: unblock 45: 45: Object Assignment checkbox 52,54 Personal object work list (POWL) 15: 15: Object categories 63,79,292,564 Personnel areas 34: 9ersonnel areas 34: <td>components</td> <td> 147</td> <td>Personal data 35, 1</td> <td>145, 328</td>	components	147	Personal data 35, 1	145, 328
deleting personal data 145 lifecycle 222 functions 146 processing 33 GDPR obligations 145 transactional use 144 generation 150 Personal master data 43 log data 151 blocking 45 maintain for objects 149 local 46 processing 144 managing groups 46 recipients 148 replicated system 46 supported processes 148 replication between systems 46 second master system 46 second master system 46 sunblock 455 second master system 46 second master system 46 second master system 46 personal object work list (POWL) 155, 166 second master system 46 Object category-specific settings 567 Personal administration (PA) 228, 33 Object Ustomizing 359 destruction run 36 desproupled Alministration (PA) 28 <td< td=""><td>configuration</td><td> 146</td><td>analytical use</td><td> 146</td></td<>	configuration	146	analytical use	146
functions 146 processing 35 GDPR obligations 145 transactional use 144 generation 150 Personal master data 436 log data 151 blocking 455 maintain for objects 149 local 466 processing 144 rananging groups 466 recipients 148 replicated system 466 supported processes 148 replication between systems 466 supported processes 148 replication between systems 466 scond master system 466 second master system 466 second master system 466 second master system 466 object categories 63,79,292,564 Personnel administration (PA) 228,333 Object categories 63,79,2	deleting distributed data issue	144	distribution	146
According 145	deleting personal data	145	5 2	
generation 150 Personal master data 438 log data 151 blocking 455 maintain for objects 149 local 456 processing 144 managing groups 466 recipients 148 replicated system 466 supported processes 148 replication between systems 466 Supported processes 148 replication between systems 466 Supported processes 148 replication between systems 466 Second master system 466 second master system 466 Supported processes 148 replication between systems second master system 466 Supported processes 148 replication between systems 466 Second master system 466 second master system 466 Second master system 466 second master system 466 Second master data 52,54 Personnel object work list (POWL) 155,166 Specifications 152 Personnel administration (PA) 228 <	functions	146	processing	35
Solution	GDPR obligations	145	transactional use	146
maintain for objects 149 local 465 processing 144 recipients 148 replicated system 466 supported processes 148 replication between systems 466 supported processes 148 replication between systems 466 second master system 465 second master system 465 personal object work list (POWL) 155, 166 specifications 156 Object categories 63, 79, 292, 564 Object Customizing 359 Object Customizing 359 doster Customizing 359 dost groups 78, 293 destruction run 366 assign objects 79 create 294 complete deletion 408 name 294 Object tinstance key 582 BOR objects 582 modify 583 Personnel number selection 40 Object types 41, 544 <t< td=""><td>generation</td><td> 150</td><td>Personal master data</td><td> 438</td></t<>	generation	150	Personal master data	438
Processing	log data	151	blocking	457
recipients 148 replicated system 466 supported processes 148 replication between systems 466 O Unblock 453 Object Assignment checkbox 52,54 Personal object work list (POWL) 155, 166 Object catalog entry 535, 546 Personal object work list (POWL) 155, 166 Object categories 63,79, 292, 564 Personnel Administration (PA) 228, 333 Object Customizing 359 define number 37 Object Customizing 359 define number 37 design objects 79 Personnel files 40 create 294 complete deletion 40 name 294 destroyed 41 BOR objects 582 time-dependent access 34 modify 583 Personnel number selection 40 Object types 41, 544 Personnel numbers 41 Offset 103 cond	maintain for objects	149	local	463
Supported processes	processing	144	managing groups	462
Second master system	recipients	148	replicated system	464
O unblock 456 Object Assignment checkbox 52,54 Personal object work list (POWL) 155, 166 Object catalog entry 535,546 Personnel Administration (PA) 228, 33 Object categories 63,79,292,564 Personnel Administration (PA) 228, 33 Object Customizing 359 Personnel areas 34. Object groups 78, 293 define number 37. assign objects 79 Personnel files 40. create 294 complete deletion 40. name 294 complete deletion 40. destroyed 41. 41. BOR objects 582 selection 41. BOR objects 582 time-dependent access 34. Personnel number selection 40. 40. Object types 41, 544 Personnel numbers 41. Obligation to disclose 472 Policies 66 Offset 103 condition fields 65-66 Operational origin	supported processes	148	replication between systems	460
Personal object work list (POWL) 155, 166			second master system	463
Object Assignment checkbox 52, 54 specifications 156 Object catalog entry 535, 546 Personnel Administration (PA) 228, 333 Object categories 63, 79, 292, 564 Personnel areas 343 Object category-specific settings 567 Personnel cases 330, 401 Object Ustomizing 359 define number 373 Object groups 78, 293 destruction run 360 assign objects 79 cromplete deletion 408 create 294 destroyed 411 name 294 destroyed 411 BOR objects 582 selection 412 BOR objects 582 time-dependent access 344 modify 583 Personnel number selection 404 Object types 41,544 Personnel number selection 404 Object types 41,544 Personnel numbers 416 Object types 41,544 Policies 66 Offset 103 condition fields	0		unblock	458
Object catalog entry 535, 546 Personnel Administration (PA) 228, 335 Object categories 63, 79, 292, 564 Personnel areas 345 Object category-specific settings 567 Personnel cases 330, 401 Object Customizing 359 define number 373 Object groups 78, 293 destruction run 360 assign objects 79 Personnel files 402 create 294 destroyed 411 name 294 destroyed 412 BOR objects 582 selection 412 BOR objects 582 time-dependent access 344 modify 583 Personnel number selection 404 Object types 41,544 Personnel numbers 416 Obligation to disclose 472 Policies 65 Offset 103 condition fields 65-66 Operational origin 173 create rules 64 Organizational units 198 Customizing 36 <td></td> <td></td> <td>Personal object work list (POWL) 1</td> <td>155, 166</td>			Personal object work list (POWL) 1	155, 166
Object categories 63, 79, 292, 564 Personnel areas 343 Object category-specific settings 567 Personnel cases 330, 401 Object Customizing 359 define number 373 Object groups 78, 293 destruction run 360 assign objects 79 Personnel files 405 create 294 complete deletion 408 name 294 destroyed 411 Object instance key 582 selection 411 BOR objects 582 time-dependent access 344 modify 583 Personnel number selection 400 Object types 41,544 Personnel numbers 410 Obligation to disclose 472 Policies 66 Offset 103 condition fields 65-66 Operational origin 173 create 64, 292 Organizational structure 190 create rules 65 Organizational units 198 Customizing 365 </td <td>Object Assignment checkbox</td> <td> 52, 54</td> <td>specifications</td> <td> 156</td>	Object Assignment checkbox	52, 54	specifications	156
Object category-specific settings 567 Personnel cases 330, 400 Object Customizing 359 define number 373 Object groups 78, 293 destruction run 360 assign objects 79 Personnel files 405 create 294 complete deletion 408 name 294 destroyed 411 Object instance key 582 selection 412 BOR objects 582 time-dependent access 344 modify 583 Personnel number selection 404 Object types 41,544 Personnel numbers 416 Obligation to disclose 472 Policies 65 Offset 103 condition fields 65-66 Operational origin 173 create 64, 292 Organizational units 198 Customizing 363 inherit rule 75 multiple rules 363 Path prefix 95 SAP S/4HANA Cloud 292 Pay	Object catalog entry	535, 546	Personnel Administration (PA) 2	228, 335
Object Customizing 359 define number 373 Object groups 78, 293 destruction run 360 assign objects 79 Personnel files 405 create 294 complete deletion 408 name 294 destroyed 411 Object instance key 582 selection 412 BOR objects 582 time-dependent access 345 modify 583 Personnel number selection 400 Object types 41, 544 Personnel numbers 410 Obligation to disclose 472 Policies 65 Offset 103 condition fields 65-66 Operational origin 173 create rules 65 Organizational structure 190 create rules 66 Organizational units 198 Customizing 365 inherit rule 75 multiple rules 365 paper documents 64 rule priority 76 Path prefix	Object categories 63, 79	9, 292, 564	Personnel areas	343
Object groups 78, 293 destruction run 360 assign objects .79 Personnel files .409 create .294 complete deletion .408 name .294 destroyed .411 Object instance key .582 selection .412 BOR objects .582 time-dependent access .345 modify .583 Personnel number selection .404 Object types .41, 544 Personnel numbers .416 Obligation to disclose .472 Policies .65 Offset .103 condition fields .65-66 Operational origin .173 create .64, 292 Organizational structure .190 create rules .65 Organizational units .198 Customizing .365 inherit rule .72 .76 PA master data .337 overview .84 Paper documents .64 rule priority .76 Path prefix .95 </td <td>Object category-specific settings</td> <td> 567</td> <td>Personnel cases 3</td> <td>330, 401</td>	Object category-specific settings	567	Personnel cases 3	330, 401
assign objects .79 Personnel files 400 create .294 complete deletion 408 name .294 destroyed 411 Object instance key .582 selection 412 BOR objects .582 time-dependent access .342 modify .583 Personnel number selection .404 Object types .41, 544 Personnel numbers .416 Obligation to disclose .472 Policies .62 Offset .103 condition fields .65-66 Operational origin .173 create .64, 292 Organizational structure .190 create rules .66 Organizational units .198 Customizing .365 inherit rule .73 .76 PA master data .337 overview .84 Paper documents .64 rule priority .76 Path prefix .95 SAP S/4HANA Cloud .292 Payroll results .323, 33	Object Customizing	359	define number	373
create 294 complete deletion 408 name 294 destroyed 411 Object instance key 582 selection 412 BOR objects 582 time-dependent access 345 modify 583 Personnel number selection 404 Object types 41, 544 Personnel numbers 416 Obligation to disclose 472 Policies 65 Offset 103 condition fields 65-66 Operational origin 173 create 64, 292 Organizational structure 190 create rules 66 Organizational units 198 Customizing 365 inherit rule 73 names 64 PA master data 337 overview 84 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422	Object groups	78, 293	destruction run	360
name 294 destroyed 411 Object instance key 582 selection 414 BOR objects 582 time-dependent access 345 modify 583 Personnel number selection 402 Object types 41, 544 Personnel numbers 416 Obligation to disclose 472 Policies 65 Offset 103 condition fields 65-66 Operational origin 173 create 64, 292 Organizational structure 190 create rules 69 Organizational units 198 Customizing 365 inherit rule 73 names 64 PA master data 337 overview 84 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 66 time-dependent access	assign objects	79	Personnel files	409
Object instance key 582 selection 414 BOR objects 582 time-dependent access 345 modify 583 Personnel number selection 402 Object types 41, 544 Personnel numbers 416 Obligation to disclose 472 Policies 65 Offset 103 condition fields 65-66 Operational origin 173 create 64, 292 Organizational structure 190 create rules 65 Organizational units 198 Customizing 365 inherit rule 73 names 64 PA master data 337 overview 84 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 66 time-dependent access 340 audit areas 45 Payroll status<	create	294	complete deletion	408
BOR objects 582 time-dependent access 345 modify 583 Personnel number selection 402 Object types 41, 544 Personnel numbers 416 Obligation to disclose 472 Policies 62 Offset 103 condition fields 65-66 Operational origin 173 create 64, 292 Organizational structure 190 create rules 66 Organizational units 198 Customizing 365 inherit rule 73 76 PA master data 337 overview 86 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 60 time-dependent access 340 audit areas 45 Payroll status 382 available 562	name	294	destroyed	411
modify 583 Personnel number selection 404 Object types 41, 544 Personnel numbers 416 Obligation to disclose 472 Policies 63 Offset 103 condition fields 65-66 Operational origin 173 create 64, 292 Organizational structure 190 create rules 65 Organizational units 198 Customizing 365 inherit rule 75 multiple rules 367 names 64 PA master data 337 overview 84 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 66 time-dependent access 340 audit areas 44 Payroll status 382 available 562	Object instance key	582	selection	414
Object types 41, 544 Personnel numbers 416 Obligation to disclose 472 Policies 63 Offset 103 condition fields 65-66 Operational origin 173 create 64, 292 Organizational structure 190 create rules 65 Organizational units 198 Customizing 365 inherit rule 72 multiple rules 367 names 64 PA master data 337 overview 84 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 66 time-dependent access 340 audit areas 45 Payroll status 382 available 562	BOR objects	582	time-dependent access	345
Obligation to disclose 472 Policies 63 Offset 103 condition fields 65–66 Operational origin 173 create 64, 292 Organizational structure 190 create rules 65 Organizational units 198 Customizing 365 Inherit rule 75 P multiple rules 367 PA master data 337 overview 82 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 83 destruction 422 Policy categories 66 time-dependent access 340 audit areas 44 Payroll status 382 available 562	modify	583	Personnel number selection	404
Obligation to disclose 472 Policies 62 Offset 103 condition fields 65-66 Operational origin 173 create 64, 292 Organizational structure 190 create rules 69 Organizational units 198 Customizing 365 inherit rule 75 p multiple rules 367 names 64 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 66 time-dependent access 340 audit areas 45 Payroll status 382 available 562	Object types	41, 544	Personnel numbers	410
Operational origin 173 create 64, 292 Organizational structure 190 create rules 69 Organizational units 198 Customizing 365 inherit rule 75 76 PA master data 337 overview 84 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 66 time-dependent access 340 audit areas 45 Payroll status 382 available 562			Policies	63
Organizational structure 190 create rules 66 Organizational units 198 Customizing 365 inherit rule 75 p multiple rules 367 pA master data 337 overview 84 paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 66 time-dependent access 340 audit areas 45 Payroll status 382 available 562	Offset	103	condition fields	65–66
Organizational units 198 Customizing inherit rule 365 Inherit rule 75 P multiple rules 365 PA master data 337 overview 84 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 66 time-dependent access 340 audit areas 45 Payroll status 382 available 562	Operational origin	173	create	64, 292
inherit rule			create rules	69
inherit rule	Organizational units	198	Customizing	365
PA master data 337 overview 82 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 66 time-dependent access 340 audit areas 45 Payroll status 382 available 562			inherit rule	73
PA master data 337 overview 84 Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 60 time-dependent access 340 audit areas 45 Payroll status 382 available 562	P		multiple rules	367
Paper documents 64 rule priority 76 Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 66 time-dependent access 340 audit areas 45 Payroll status 382 available 562			names	64
Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 60 time-dependent access 340 audit areas 45 Payroll status 382 available 562	PA master data	337	overview	84
Path prefix 95 SAP S/4HANA Cloud 292 Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 60 time-dependent access 340 audit areas 45 Payroll status 382 available 562			rule priority	76
Payroll results 323, 335, 342, 422 transfer 85 destruction 422 Policy categories 60 time-dependent access 340 audit areas 45 Payroll status 382 available 562	-		SAP S/4HANA Cloud	292
destruction 422 Policy categories 66 time-dependent access 340 audit areas 49 Payroll status 382 available 562	_		transfer	85
time-dependent access 340 audit areas 49 Payroll status 382 available 562				
Payroll status				
			available	562
			define	562

Position column	
Preprocessing program296, 415,	542
data destruction object	414
initial steps	372
log 374,	384
process flow	416
select data until	
single variant	390
template	
test mode	
undo	387
variants	
Print lists	. 89
Private legal forms	
Process model	
archiving object	
control program	
customer-specific	
execute	
maintain	
sample	
scheduler	
unconditional breakpoint	
Processing logs	
Processing purposes	
Process-organizational attributes	
Product liability	. 47
Program	
RP_PA_ARCH_PW_SCHEDULER	
RP_PA_ROLLBACK	387
RP_PA_ROLLBACK RP_PERNR_APPROVE	387 416
RP_PA_ROLLBACKRP_PERNR_APPROVERPDINF01	387 416 327
RP_PA_ROLLBACKRP_PERNR_APPROVERPDINF01RPTKOKOO	387 416 327 331
RP_PA_ROLLBACKRP_PERNR_APPROVERPDINF01RPTKOK00RPUAUDDL	387 416 327 331 419
RP_PA_ROLLBACK	387 416 327 331 419 409
RP_PA_ROLLBACKRP_PERNR_APPROVERPDINF01RPTKOK00RPUAUDDL	387 416 327 331 419 409
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINF01 RPTKOKOO RPUAUDDL RPUDELPN RPUDELPP 330, 409, RPUTRBKO	387 416 327 331 419 409 417 383
RP_PA_ROLLBACK	387 416 327 331 419 409 417 383
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINF01 RPTKOKOO RPUAUDDL RPUDELPN RPUDELPP 330, 409, RPUTRBKO	387 416 327 331 419 409 417 383 328
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINF01 RPTKOKOO RPUAUDDL RPUDELPN RPUDELPP	387 416 327 331 419 409 417 383 328
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINFOI RPTKOKOO RPUAUDDL RPUDELPN RPUDELPP 330, 409, RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports	387 416 327 331 419 409 417 383 328 . 90 325
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINFOI RPTKOKOO RPUAUDDL RPUDELPN RPUDELPP 330, 409, RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222,	387 416 327 331 419 409 417 383 328 . 90 325 220
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINFOI RPTKOKOO RPUAUDDL RPUDELPN RPUDELPP 330, 409, RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended	387 416 327 331 419 409 417 383 328 . 90 325 220
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINFOI RPTKOKOO RPUAUDDL RPUDELPN RPUDELPP 330, 409, RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended	387 416 327 331 419 409 417 383 328 . 90 325 220
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINF01 RPTKOKOO RPUAUDDL RPUDELPN RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended primary	387 416 327 331 419 409 417 383 328 . 90 325 220
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINF01 RPTKOKOO RPUAUDDL RPUDELPN RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended primary	387 416 327 331 419 409 417 383 328 . 90 325 220 220
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINF01 RPTKOKOO RPUAUDDL RPUDELPN RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended primary	387 416 327 331 419 409 417 383 328 . 90 325 220 220
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINF01 RPTKOKOO RPUAUDDL RPUDELPN RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended primary Reason codes	387 416 327 331 419 409 417 383 328 . 90 325 220 220
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINFO1 RPTKOKOO RPUAUDDL RPUDELPN RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended primary R Reason codes Reference date 71, 132,	387 416 327 331 419 409 417 383 328 . 90 325 220 220 281 573 405
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINF01 RPTKOKOO RPUAUDDL RPUDELPN RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended primary R Reason codes Reference date 71, 132, Remote Function Call (RFC)	387 416 327 331 419 409 417 383 328 . 90 325 220 220 281 573 405
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINFOI RPTKOKOO RPUAUDDL RPUDELPN RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended primary R Reason codes 71, 132, Remote Function Call (RFC) Remote Function Call (RFC) connection 440, 480	387 416 327 331 419 409 417 383 328 .90 325 220 220
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINF01 RPTKOKOO RPUAUDDL RPUDELPN RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended primary R Reason codes 71, 132, Remote Function Call (RFC) Remote Function Call (RFC) connection 440, 480 Report variant 440, 480	387 416 327 331 419 409 417 383 328 .90 325 220 220 221 281 405 174,
RP_PA_ROLLBACK RP_PERNR_APPROVE RPDINFOI RPTKOKOO RPUAUDDL RPUDELPN RPUTRBKO RSAUDIT_WUSL_DDIC Propagation reports Purpose 193–194, 222, intended primary R Reason codes 71, 132, Remote Function Call (RFC) Remote Function Call (RFC) connection 440, 480	387 416 327 331 419 409 417 383 328 .90 325 220 220

Reporting (Cont.)
display data515
exporting515
periods
restricted time display344
selection criteria513
table selection512
Residence obligations
Residence periods 60, 196, 198, 223, 225, 438
application names237
master data
organizational units
Residence rules
audit area
inheritance
maintain
master data
Residence time rules
Residence times
Responsibility matrix
Responsibility periods
Retention location
Retention management 29–30, 143, 183, 220,
347
activate business functions137
£:
configuration357
Retention periods 26–27, 30, 36, 186, 194,
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 beginning
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 beginning
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 386
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 386 in past 215
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 386 in past 215 master data 249
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 227 define 386 in past 215 master data 249 transmissions 247
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 testing 451
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 testing 451 vs. residence rules 76
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 testing 451
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 testing 451 vs. residence rules 76 Retention time 27, 71 Retention warehouse 29–30, 128, 477–478,
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 testing 451 vs. residence rules 76 Retention time 27, 71 Retention warehouse 29–30, 128, 477–478, 480, 571, 581
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 227 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 testing 451 vs. residence rules 76 Retention time 27, 71 Retention warehouse 29–30, 128, 477–478,
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 testing 451 vs. residence rules 76 Retention time 27, 71 Retention warehouse 29–30, 128, 477–478, 480, 571, 581
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 testing 451 vs. residence rules 76 Retention time 27, 71 Retention warehouse 29–30, 128, 477–478, 480, 571, 581 audit areas 52
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 testing 451 vs. residence rules 76 Retention time 27, 71 Retention warehouse 29–30, 128, 477–478, 480, 571, 581 32 audit areas 52 connect to legacy system 500
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 testing 451 vs. residence rules 76 Retention time 27, 71 Retention warehouse 29–30, 128, 477–478, 480, 571, 581 32 connect to legacy system 500 file conversion 502
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 vs. residence rules 76 Retention time 27, 71 Retention warehouse 29–30, 128, 477–478, 480, 571, 581 audit areas 52 connect to legacy system 500 file conversion 502 file storage 503
Retention periods 26–27, 30, 36, 186, 194, 197, 203, 223, 225, 326, 470 beginning 227 define 386 in past 215 master data 249 transmissions 247 Retention rules 45, 54, 61, 150, 193, 357 accuracy 451 conditions 70, 364 inheritance 76 results 70 SAP ILM objects 451 vs. residence rules 76 Retention time 27, 71 Retention warehouse 29–30, 128, 477–478, 480, 571, 581 audit areas 52 connect to legacy system 500 file conversion 502 file storage 503 optimized 510

Retention warehouse (Cont.)	SAP ERP H
SAP ILM-enable storage481	basics o
system architecture479	blocking
table names restriction 507	controll
transfer administration data 501	data de.
transfer archived data499	data de.
RFC connections 96, 233	data red
Role templates	deletion
Roles	destruci
required141	executio
Role-specific authorization periods 334, 338	history
define IDs 338	illnesses
Rule categories79	implem
Rule evaluation 587, 589	infotype
Rule groups 80, 201, 251, 293, 438	memory
assign81	overvie
assigned to object groups295	preproc
define81	required
field values84	retroact
finalize82	SAP ILN
prerequisite84	test dat
time reference values82	time off
Rule maintenance	time ref
from-to entries 562	transac
Rule priority	vacatio
Rules	veto che
	SAP Exten
S	(SAP EW
	SAP HANA
SAP ArchiveLink 74, 87–88, 90, 108, 169, 211,	SAP ILM a
213	archivir
SAP Best Practices Explorer 288, 314	data ar
SAP Business Client 155, 157, 162	data de.
SAP Business Connector	implem
SAP Business Suite64	SAP ILM a
SAP Business Warehouse (SAP BW) 46, 479	activate
SAP Business Workflow	active q
SAP BusinessObjects BI 507, 516, 518	archivir
SAP Cloud Platform Document service 292	change
SAP Commerce	define n
SAP Content Server 87, 181	delete q
SAP Customer Relationship Management	favorite
(SAP CRM) 230, 462, 465, 469	jobs ove
SAP Data Archiving	object t
SAP E-Recruiting	print/ex
SAP ERP	
	queries
SAP ERP Financials 158	queries
SAP ERP Financials	queries query d
SAP ERP HCM 59, 103, 226, 323, 465, 526, 573	queries
SAP ERP HCM 59, 103, 226, 323, 465, 526, 573 analyze existing data	queries query de query p
SAP ERP HCM 59, 103, 226, 323, 465, 526, 573 analyze existing data	queries query de query pe SAP ILM es
SAP ERP HCM 59, 103, 226, 323, 465, 526, 573 analyze existing data	queries query de query pe SAP ILM es SAP ILM o

SAP ILM objects (Cont.)
archiving objects naming 553
assignment51–52, 249
audit areas200
available condition fields 560
available policy categories 562
available standard condition fields 559
behavior 590
BOR mapping 577
BOR object types 205
category-specific settings546
condition fields65
create542
creation steps overview545
cross-object category settings 546
customer-specific settings68
Customizing 454
data destruction objects43, 116
develop44
exclue from notifications 150
field selection65
generate 496
header data553
inheritance 554–555
linking 575
object category-specific settings 556, 565
object groups79
optional settings 552, 563
preparatory steps543
quailty check 586
restrictions group 120
retention warehouse 571
role543
rule groups 201
rules criteria188
SAP S/4HANA Cloud291
simulation 198
single link576
sorting audit area list53
special characters 554
standard fields 552
table-field pair570
technical name45
tests 586
time offsets 558
time references 547, 557
UseRuleGrp checkbox83
value determination 568
SAP ILM rule generator 370
SAP ILM Store Browser
attributes group109

CAD II M Ctore Drawson (Cont.)
SAP ILM Store Browser (Cont.)
components
display
resource group
SAP ILM stores
additional resources
administrative origin172
architecture
archive files
BAdI implementation175
content repository177
define93
leading system settings173
names98
new service element170
operational origin173
origins 169, 179
path prefix94
RFC connection175
rule maintenance97
storage system177
structured data169
structured/unstructured data88
unstructured data settings177
SAP ILM work center154
prerequisites155
<i>UI</i>
SAP ILM-enabled archiving28
SAP IQ169
SAP Landscape Transformation Replication
Server
archive files497
configuration for extraction
data provisioning status488
data replication481
external source483
legacy system connection480
load statistics489
proxy table
retention warehouse connection
RFC connection483
table replication488
target system483–484
transfer settings
SAP namespace
SAP NetWeaver AS Java
SAP S/4HANA
SAP S/4HANA Cloud
application rule variants311

SAP S/4HANA Cloud (Cont.)
archived data305
archiving295
archiving objects290
archiving sessions297
audit areas289
blocking master data308
data destruction 315
delete and storage job303
documentation288
monitor archiving jobs301
organizational model190
policies292
residence times187
SAP ILM business rules 314
SAP ILM objects291
stored archive files319
technical jobs
vs. on-premise287
SAP Supplier Relationship Management
(SAP SRM)465
SAP training29
Selection includes 525
Self-Service Configuration user
interfaces295
Session ID
Shadow hierarchy 89–91
SI income threshold423
Simplified blocking 145, 219
preparatory steps228
SN objects 524, 571
Snapshot runs
Snapshots 56, 89, 128, 131, 523
accept data527
destroy 130
Social partnerships33
Sorted archiving28
Source tables 571
Staging area
Standard includes 526
Start dates
Start determination 550
Storage and Retention Service98
setup99
Storage job 131
Storage systems86
Structure definition 535, 571, 574, 582
Structured data 92, 434, 446
Subtypes
System decommissioning 477
System shutdown 45, 477, 571, 581

<u> </u>	
	ps 49
	574, 58
Tablespace	48
Temporary archiv	ve files5
Test managemen	t
Tile group	29
Tiles	29
	results 42
Time Manageme	nt 33
	33
events	32
infotypes	35
	39
•	
	195, 336, 360–361, 363, 54
	55
	55
	36
	55
	ation 55
	72, 242, 360–361, 451, 54
	<i>72, 242, 300–301, 431, 34</i>
	36
	DATE
	determination57
	ded 54
	55
	ation 57
-	s 38
_	access 34
	access control 34
	authorization control 32
	authorizations 332–33
infotypes	33
	ess 34
Total cost of own	ership (TCO)2
Transaction	43
AL11	
AOBJ	357, 523, 53
BD97	20
BUP REQ UNE	3LK 27
	45
CVP UNBLOCK	K_MD27
	532–533, 53
	263, 27
	203, 27
TDLJIV	17

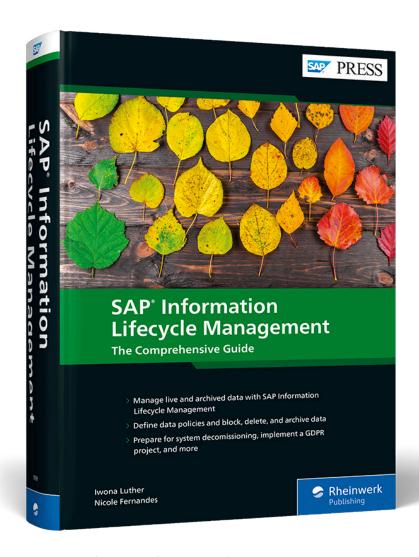
Γransaction (Cont.)	
HRPA_PERNR_APPROVE	
HRPBAS_ERD_DISP_LOG	430
ILM AL REF	90
<i>ILM_CHANGE_RET</i> 57, 104, 128, 130	, 148
<i>ILM DESTRUCTION</i> 43, 75, 114, 116,	
214–215, 413, 417, 588	,
ILM_DL_REF	90
ILM LHM 148, 204–206	
ILM LTCONFIG	
ILM LTRUN	
ILM SIM	
ILM_STOR_ADM_CUST 172	
ILM_TRANS_ADMIN	, 173 502
ILMAPT 505	
ILMARA 45–46, 48, 195, 200	
<i>ILMSIM</i> 584, 587	
ILMSTOREADM 95, 97–98, 174	
IRM_CAT	
IRM_CUST 44, 357, 532, 542, 545, 547	
IRM_CUST_BS 149	
IRM CUST CSS 68, 79, 83, 201, 248	, 553
IRM DESTRCUTION	417
<i>IRMPOL</i> 63–64, 66, 69, 82, 98, 109,	140,
240, 365–366, 549	ŕ
IRMRULE 196–197, 202	. 370
IRMRULE ACTIVATE	
IWP01 506, 511–512	
LTRC	
OACO	,
OMB9	,
OOSB	
OOSP	
PA20	
PA30 336, 376, 382	
PA40	
PC_PAYRESULT 333, 340–341	
PCOO_M16_UAUD	
PEST	
PFCG140, 338-	
PT64	344
PU22	421
PUST 399	, 402
S L4H 60400001	429
S L4H 60400001 SB	
SAAB	
SARA 41, 43–44, 58, 96, 106, 108,	
151, 158, 168, 185, 354, 370, 374, 390, 4	
494, 587	J-T,
494, 587 SCASE	204
SCC4	
SDMSK	228

Transaction (Cont.)
SE11328
SE12
SE16 42, 45, 506
SE18174
SE38209, 387
SFW5348
SICF 138, 169, 177
<i>SLG1</i> 385, 418, 421
<i>SLG2</i> 385, 418, 421
SM30397
SM59 94, 176
SMICM139
<i>SNUM</i> 422
SOAMANAGER467
SOBJ546
<i>SWO1</i> 398, 520, 578
VLO3N
VORL
WE11
XD01
XD02273
XD03273
Transactional data
archiving254
blocking
viewing blocked data257, 244, 260
Transport requests
Travel data
114VC1 4444 721
U
Unblocking request278
Unconditional breakpoint400
Uniform Resource Identifier (URI)65
Unstructured data 30, 89, 92, 177, 247, 447
leading system179
User roles
V
Value determination544
no empty fields568
time offsets572
time offsets (indirect)575
Variants
Vendor master data
Veto check
enabling applications
register applications
settings
Veto flag405

W	Write program 388 log 389
Web Dynpro	
Web Dynpro interface	
WebDAV 86, 106	X
Work items 428	
Working hours34	XML Data Archiving Service98







Iwona Luther, Nicole Fernandes

SAP Information Lifecycle Management: The Comprehensive Guide

609 Pages, 2020, \$99.95 ISBN 978-1-4932-1959-9



www.sap-press.com/5072



Iwona Luther has been working at SAP in the area of data archiving, which has evolved over the years into SAP ILM, for the past 20 years. She initially worked as a developer, then as a project manager, coordinator, and in quality assurance. She is responsible for the customer courses BIT660, BIT670, and BIT665, and she is the product standard owner for SAP ILM. Iwona is also the contact person

for the DSAG and ASUG Data Archiving and SAP ILM working groups.



Nicole Fernandes has worked as a translator for English, French, and German texts since 2005. Her fields of expertise are software/information technology and medical research/genetics. Her projects have included the translation of specialized ERP systems and industry-specific software solutions for the temporary employment sector (including documentations, user manuals, etc.). She also works as a senior editor for the online dictionary linguee.com (English/

German) and contributed sample translations from a variety of fields to the translation machine deepl.com.

We hope you have enjoyed this reading sample. You may recommend or pass it on to others, but only in its entirety, including all pages. This reading sample and all its parts are protected by copyright law. All usage and exploitation rights are reserved by the author and the publisher.