

No. 34

SAP DATA REPLICATION

SAP SLT Security

Securing SAP Landscape Transformation Replication Server, explained for beginners

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SECTRAININGNOW SERIES · NO. 34

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BEFORE YOU BEGIN

How to use this book

What this book covers, who it is for, and how to use it.

SAP Landscape Transformation Replication Server, usually called **SLT**, copies data from SAP and other systems into SAP HANA, SAP BW, SAP Datasphere, Central Finance and other targets, in real time. It is a powerful tool and a quiet one: once configured, it keeps copying tables in the background, often for years.

That makes SLT a security topic. A single configuration can copy payroll, bank details or customer data out of a well-protected ERP system into a database where the original authorizations no longer apply. This book explains, for beginners, **how to secure SLT and the data it replicates**: users and connections, roles and authorization objects, restricting tables, protecting targets, minimizing data with filters and rules, network encryption, monitoring, governance and troubleshooting.

Which versions this book covers

SAP Learning lists several SLT lines, delivered through the **DMIS** add-on or as part of SAP S/4HANA:

- **SLT 2.0** (DMIS 2011), whose mainstream maintenance SAP extended to the end of 2025;
- **SLT 3.0** (DMIS 2018) for NetWeaver-based systems;
- **SAP LT Replication Server for SAP S/4HANA 1.0** (DMIS 2020) and **2.0** (DMIS 2025), running on S/4HANA Foundation;
- SLT functions included in S/4HANA 1610 to 1909.

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The book focuses on the current lines and points out where older ones differ. Always check the **Security Guide** for your exact release and support package.

Who this book is for

- **SAP security analysts** who must design SLT roles.
- **Basis and data engineers** who run SLT.
- **Data owners and privacy officers** who must approve what is copied where.
- **Auditors** reviewing data flows out of ERP systems.

How the book is organized

- **Part I — Foundations** (Chapters 1–4): what SLT does, its versions, its architecture, and why replication bypasses source controls.
- **Part II — Securing SLT** (Chapters 5–12): users and connections, roles, authorization objects, restricting tables, protecting targets, filters and rules, SAP Datasphere and ODP consumers, and SLT in projects.
- **Part III — Operating** (Chapters 13–19): network encryption, monitoring, governance, data protection, troubleshooting, a worked example and checklists.

Conventions

TIP
Practical advice you can apply straight away.

IN SAP
Product-specific details and names.

WATCH OUT
Common misunderstandings.

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KEY IDEA

The one thing to remember from a section.

A note on screens and examples

Screens are **simplified illustrations**, not copies of SAP screens. System names, users and tables in examples are invented or are well-known standard tables used only as examples.

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PART I

Foundations

These chapters explain what SLT does, which versions exist, how data flows, and why replication creates new security responsibilities.

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CHAPTER 1

What SLT does

SLT replicates tables in real time. That is useful for analytics, finance and migrations, and it moves sensitive data.

Trigger-based replication

SLT replicates data **table by table**. For each table in a configuration, it:

1. performs an **initial load** of the existing data;
2. creates **database triggers** in the source system that record changes in **logging tables**;
3. reads the logged changes and writes them to the **target**, near real time.

Common uses

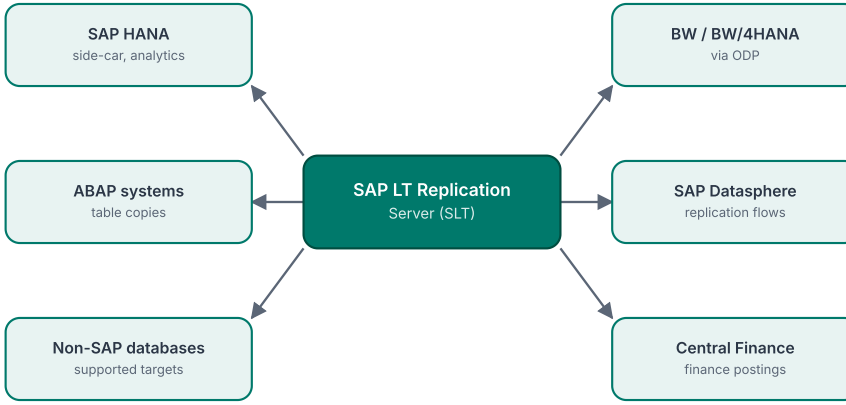


Figure 1.1 What SLT is used for.

- **SAP HANA side-cars** for real-time analytics on ERP data.

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- **SAP BW and BW/4HANA**, through the operational data provisioning (ODP) framework.
- **SAP Datasphere**, where replication flows from ABAP-based systems use the DMIS technology.
- **Central Finance**, replicating accounting documents into a central S/4HANA system.
- **Non-SAP databases**, from a list SAP documents in a note for supported targets.
- **ABAP systems**, for table copies and migration scenarios.

Why it matters for security

SLT is used by data teams, analytics projects and finance programmes, often under time pressure. Configurations are set up once and run for years. Nobody may remember why a table is replicated, who reads the copy, or whether the copy is still needed.

KEY IDEA

Every SLT configuration is a **data flow out of a controlled system**. Treat each one like an interface: with an owner, a purpose, an approval and a review.

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CHAPTER 2

Versions and deployment options

SLT comes in several releases. The release decides which security features and objects you have.

The release lines

Add-on / release	Product name	Note
DMIS 2011	SLT 2.0	mainstream maintenance ended 2025
DMIS 2018	SLT 3.0	NetWeaver-based systems
DMIS 2020	SLT for SAP S/4HANA 1.0	on S/4HANA Foundation
DMIS 2025	SLT for SAP S/4HANA 2.0	newest line
S/4HANA 1610–1909	included in S/4HANA	no separate add-on

Figure 2.1 SLT releases (simplified).

SAP Learning's overview of which DMIS version to use lists, for example, DMIS 2020 as SAP LT Replication Server for SAP S/4HANA 1.0 on S/4HANA Foundation, and notes that SLT functions were included in S/4HANA 1610 to 1909. SAP's knowledge base mentions **DMIS 2025** together with SAP LT Replication Server for SAP S/4HANA 2.0. An SAP blog announced that mainstream maintenance of SLT 2.0 (DMIS 2011) was extended from the end of 2020 to the end of 2025; check SAP's current information for the maintenance status of your release.

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Change data capture

SAP Learning notes that from DMIS 2018 SP4, when the source is S/4HANA 2020 or higher, a **new version of the change data capture mechanism** is used. Newer releases also bring additional authorization objects for change data capture (Chapter 7).

Deployment options

- **Standalone SLT server**: a separate ABAP system that connects to sources and targets. This is the most common set-up for larger landscapes and keeps SLT load and administration apart from the ERP.
- **Embedded in the source**: SLT runs in the source system itself. Simpler, but SLT administrators then work inside the production ERP.
- **Embedded in the target**: for example in a BW or S/4HANA target.

Option	Security consideration
Standalone	separate system to harden and patch; clear separation of SLT admins
Embedded in source	SLT admins need access to the production ERP
Embedded in target	replication logic sits with the consumers

TIP

Keep SLT releases current. Security-relevant corrections and new restriction options arrive through DMIS support packages, and SAP's knowledge base explains which DMIS versions still receive new correction notes.

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