



EFFORTLESS ABAP DEPENDENCY MANAGEMENT WITH TRM

MODERNIZE CUSTOM DEVELOPMENT DELIVERY IN SAP ECC AND S/4HANA

AbapConf 2025 Vienna



WHY DEPENDENCY MANAGEMENT IN ABAP

- SAP custom developments can be **complex** and **spreads on multiple objects**.
- Dependencies between objects (classes, function modules, tables) **are often undocumented**.
- Manual tracking can lead to **broken transports** and **runtime errors**.

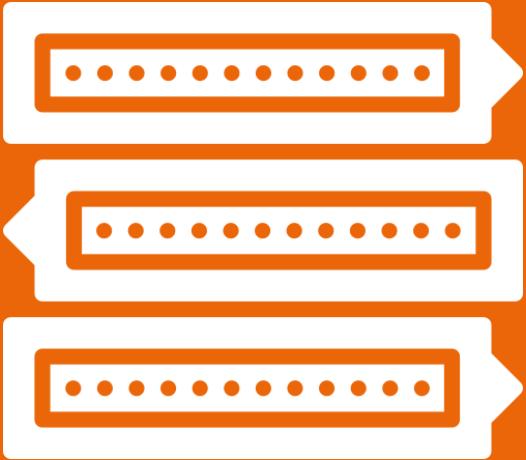


WHAT YOU'LL LEARN

- How TRM **detects dependencies** in custom ABAP packages
- How to **publish** a package from your central development system and **install** into a target system
- How dependencies are **solved** during installation on target system



WHY IT MATTERS TO YOU



 **Consistency:** Ensure your packages always include what they need

 **Clarity:** Make dependencies visible, documented, and versioned

 **Speed:** Deploy without time-consuming manual checks or fixes

 **Control:** Know exactly what's being installed, and why



WHAT'S TRM?



TRM
POWERED BY REGESTA

<https://trmregistry.com>

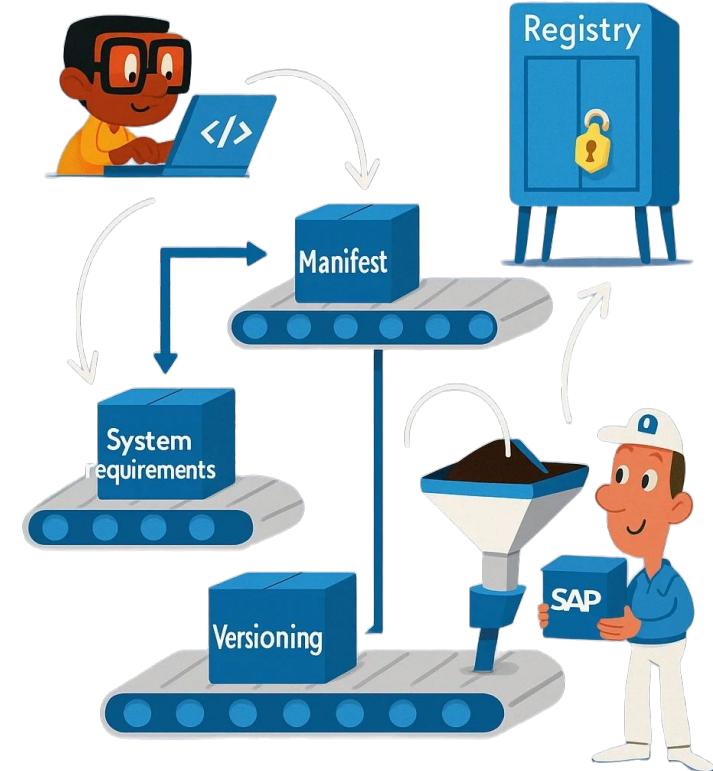
<https://www.regestaitalia.eu/en/solutions/products/trm-transport-request-manager/>

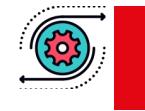


TRM (TRANSPORT REQUEST MANAGER)

A modern **solution for managing ABAP packages** across SAP systems

TRM brings the power of **package management** (like npm or pip) to SAP.

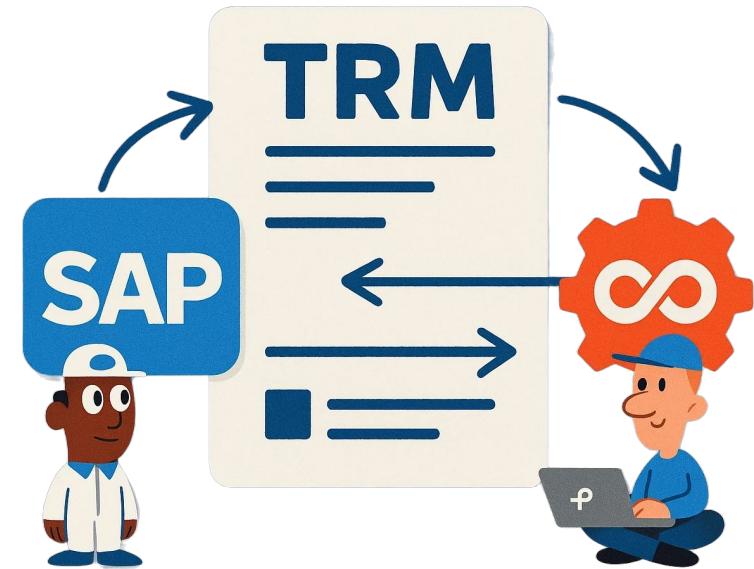




HOW TRM WORKS

Command line application

- A. **Develop** ABAP objects on your central development system
- B. Execute command **TRM publish** to create a new versioned release of your code
- C. Execute **TRM install** to import into any development target system





WHAT TRM SOLVES

Pain Point	TRM Solution
Manual transports	Auto-generated, trackable requests
Version confusion	Semantic versioning per package
Unknown dependencies	Auto-detection of object relationships
Error-prone installs	CLI-based, consistent deployment





TRM MANIFEST: BRINGING STRUCTURE TO ABAP PACKAGES

Think of it as the “**package.json**” of your ABAP developments

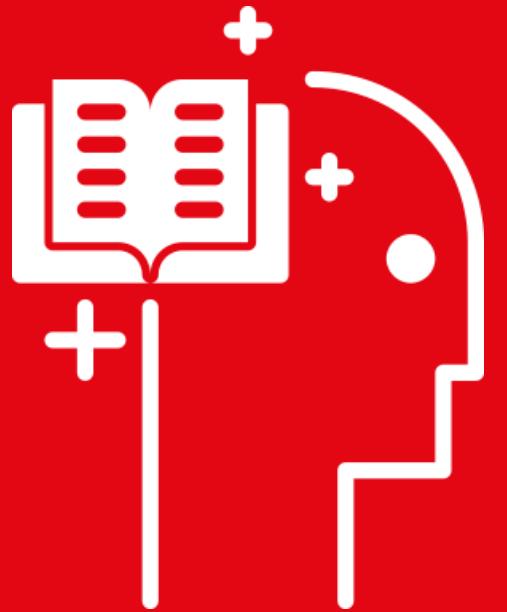
What It Is:

- A **manifest.json** file included in every TRM package
- **Describes the package** content and metadata
- Created **automatically** during **trm publish**

What It Contains:

- Package **name** and semantic **version**
- Description, authors, license
- List of **dependencies** (TRM and SAP objects)

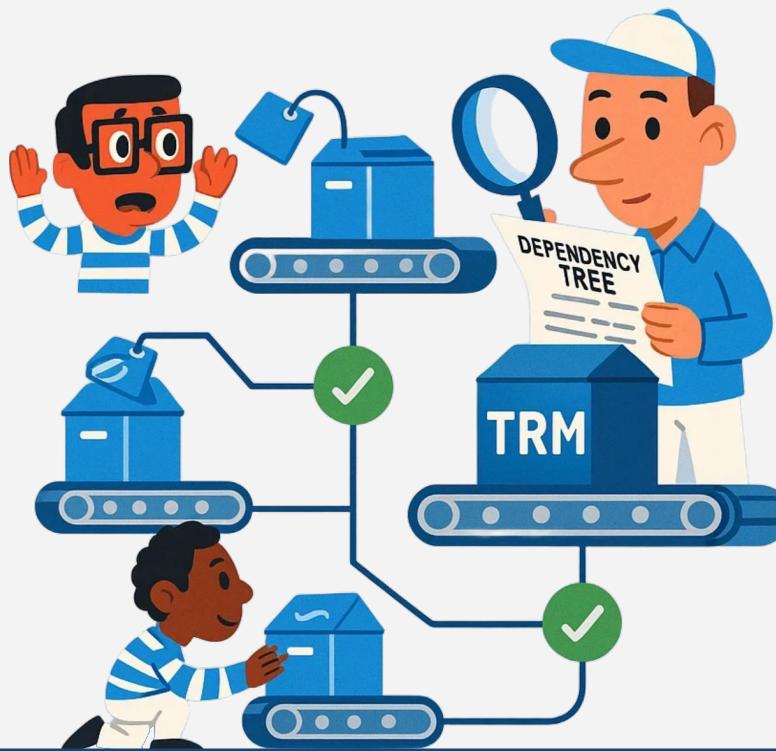


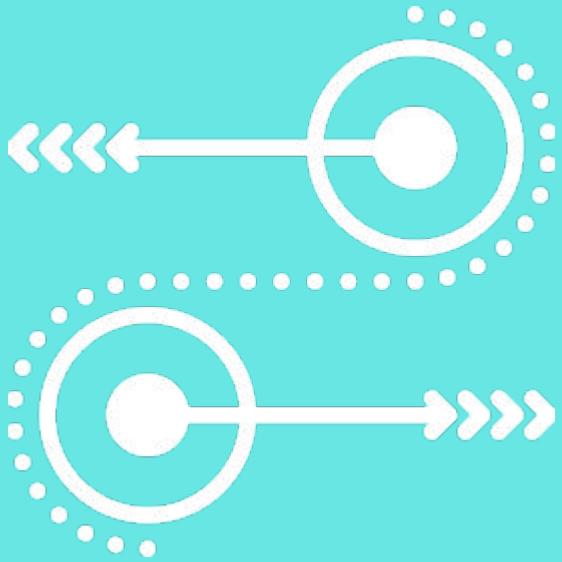


BUILT FOR SAP, INSPIRED BY DEVOPS

- CLI, **DevOps-friendly**
- Connects to SAP systems with REST or RFC
- Supports **public, private** registries and **local** downloads/uploads
- Integrates with **GitHub Actions** and **AbapGit**
- Supports **Workbench, Customizing, Translations**

DEPENDENCY MANAGEMENT WITH TRM





WHAT ARE ABAP DEPENDENCIES?

Examples:

- Report using a class from another package
- Function module calling another in a different package

Problem:

These **links aren't always obvious**, but transporting a single package without its dependencies can cause **errors during import**



THE OLD WAY: HOPE AND TRANSPORT

- Developers **try to keep track** of what needs to be included before transport
- Transport errors caused by missing dependencies found **only after import**
- **Manual checks**, Excel files, and “let’s try again” cycles



THE TRM WAY: DETECT, DECLARE, DELIVER

1. TRM **analyzes** the objects in the package.
2. It **identifies** any referenced TRM packages or SAP objects.
3. It **includes** dependencies **in the manifest**.
4. Install automatically **resolves dependencies** first.



LIVE DEMO |

WHAT YOU'LL SEE:

Publishing a TRM package that uses a class from another package
TRM automatically **detecting** and blocking the publish until dependency is resolved
Installing the package on a second system with automatic dependency resolution



READY TO TRANSFORM YOUR SAP ABAP DELIVERY?

Visit

- docs.trmregistry.com
- regestaitalia.eu/en/solutions/product/trm-transport-request-manager/

Try TRM on your DEV system today

Talk to us about integrating TRM in your
CI/CD pipeline





DEMO LINKS

APP:

https://github.com/Regestalia/abapconf2025_app

UTILS LIBRARY:

https://github.com/Regestalia/abapconf2025_utils

TRM CTS DEPENDENCY CHECK:

<https://github.com/Regestalia/trm-cts-dep-check>



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