

Transporting Cloud Content in Hybrid Landscapes

Introduction and Overview

November 2022

PUBLIC

Agenda

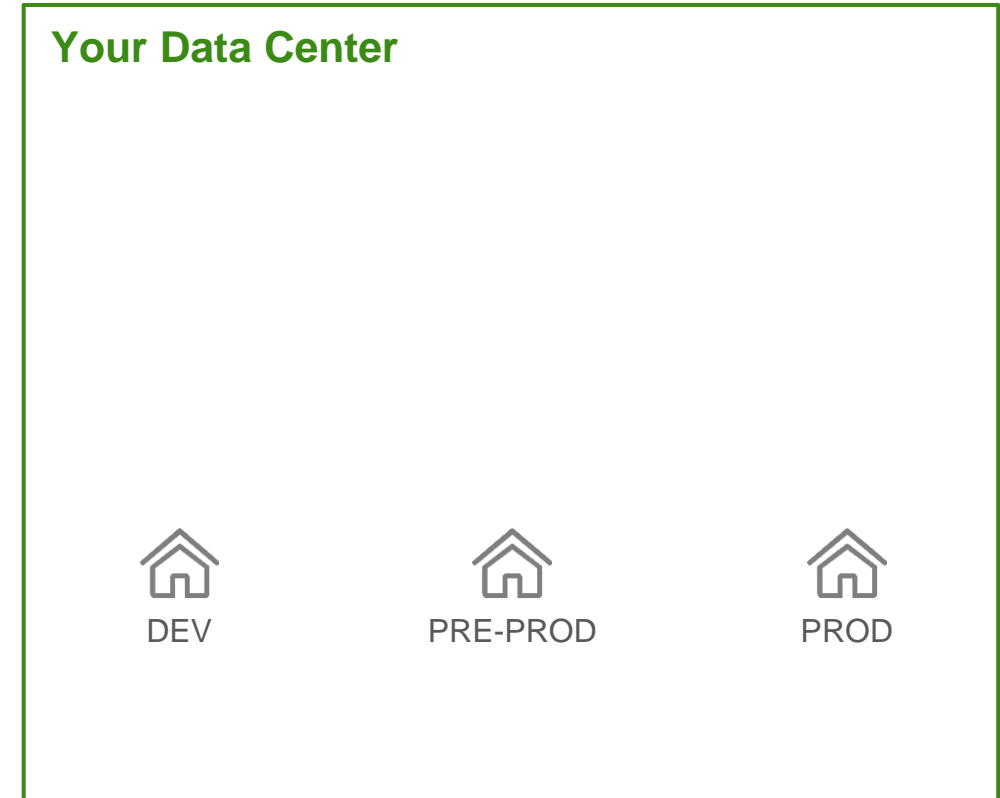
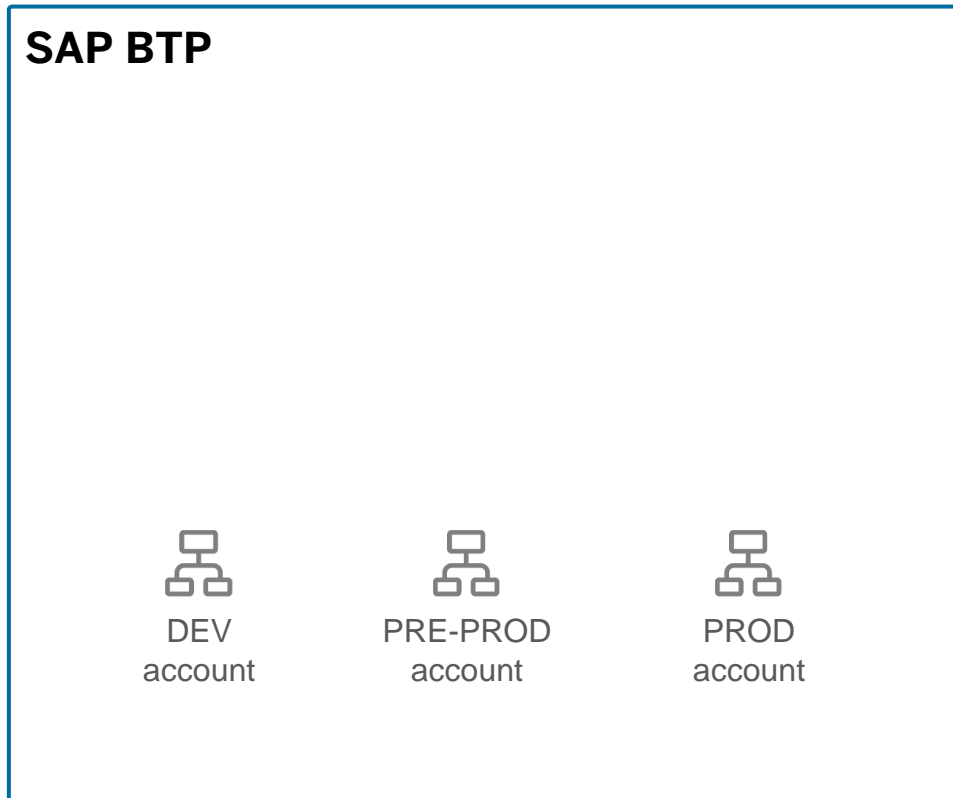
Transports in hybrid landscapes

- Enhanced Change and Transport System (CTS+)
- SAP Cloud Transport Management
- Integration with Continuous Integration / Continuous Delivery (CI/CD)
- SAP Solution Manager Change Request Management (ChaRM)
- SAP Cloud Application Lifecycle Management (SAP Cloud ALM)

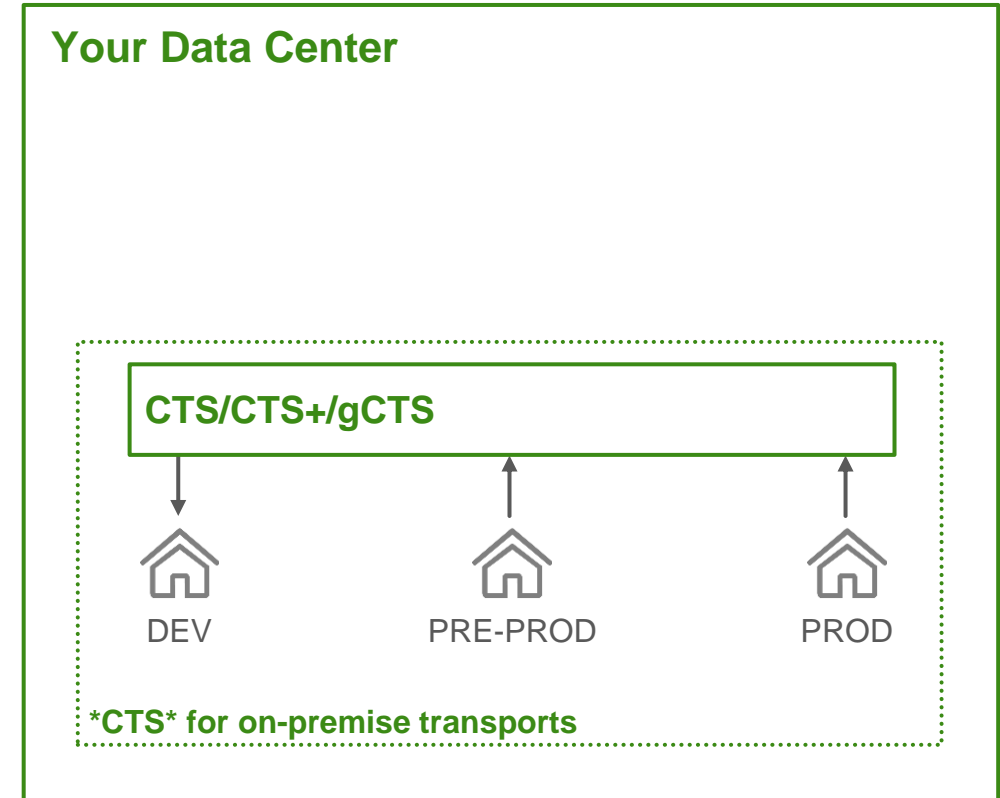
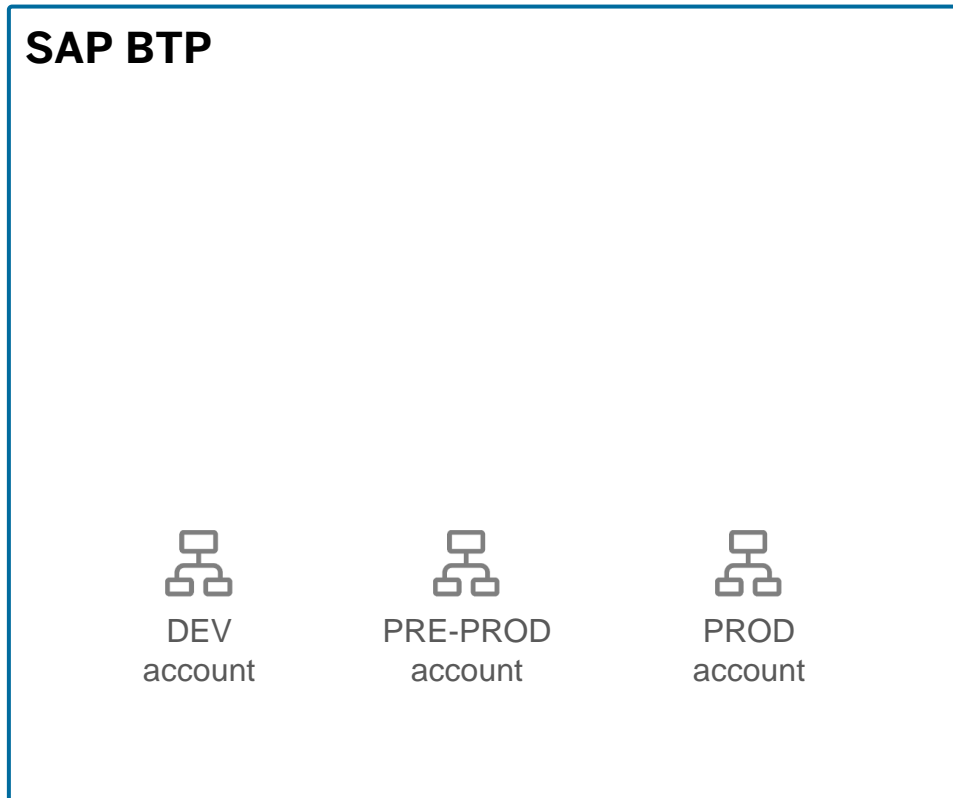
Further Information

Holistic Picture and Positioning of Transport and Change Management

Hybrid landscape

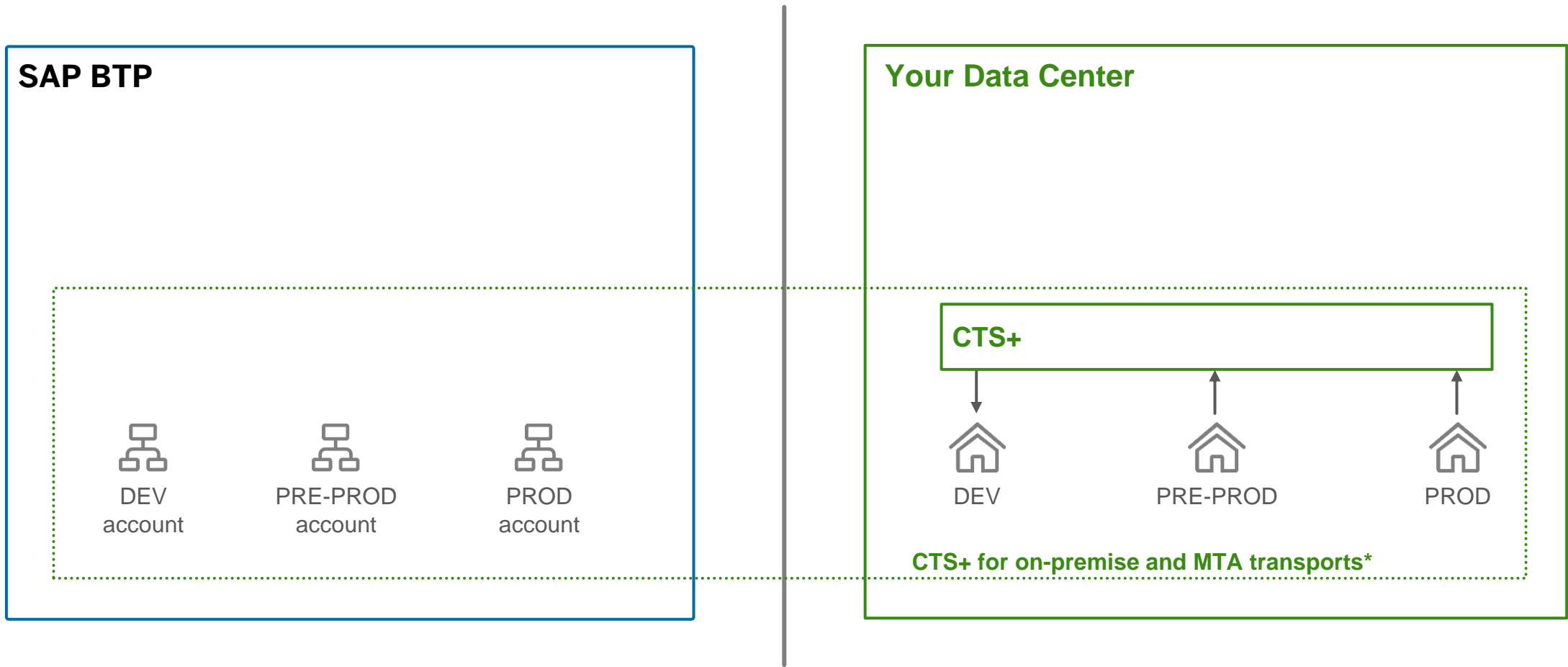


Holistic Picture and Positioning of Transport and Change Management Change and Transport System (CTS) for on-premise transports



Holistic Picture and Positioning of Transport and Change Management

Enhanced CTS (CTS+) extended for cloud transports



*) CTS+ can also handle MTA-based transports on SAP BTP (such as for SAP Integration Suite)

Holistic Picture and Positioning of Transport and Change Management

Enhanced CTS (CTS+) extended for cloud transports

Enhanced Change and Transport System (CTS+) has been extended to handle transports in SAP BTP

CTS+ can transport in the **Neo** and **Cloud Foundry** environments

The transports are based on **Multitarget Applications (MTA)** – this covers:

- Development artifacts
- SAP Integration Suite

It is not planned to extend CTS+ functionality to further content types (beyond MTA), cloud environments (like Kubernetes), or SAP SaaS solutions

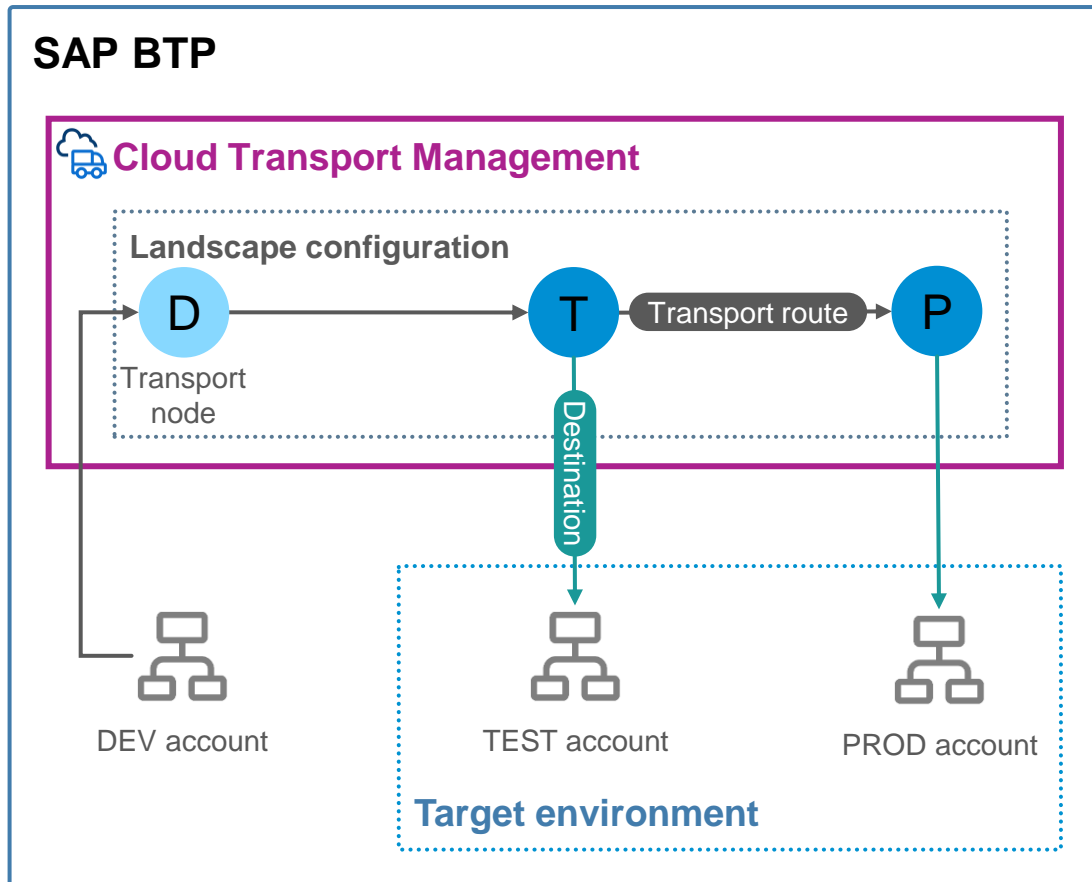


SAP Cloud Transport Management service

Add additional control for your delivery to production



Cloud-based transport management solution for your changes in the cloud



- Allows to apply standardized, enterprise-ready change management process – no ABAP system required
- Add transparency on **audit trail of changes**
- Establish **separation of concerns** + regain control
- Option for **synchronizing transports** with on-premise artifacts

Transport in Neo + Cloud Foundry environments of:

- **Dev artifacts** (MTA archives – like CTS+)
- In addition: **application content**

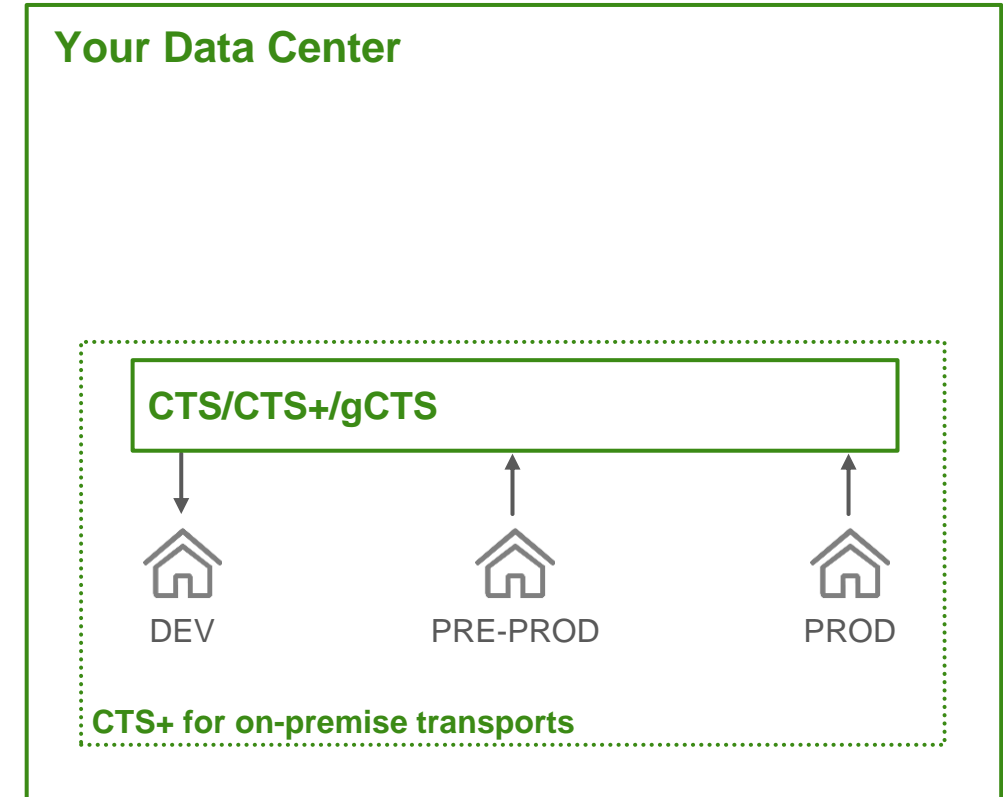
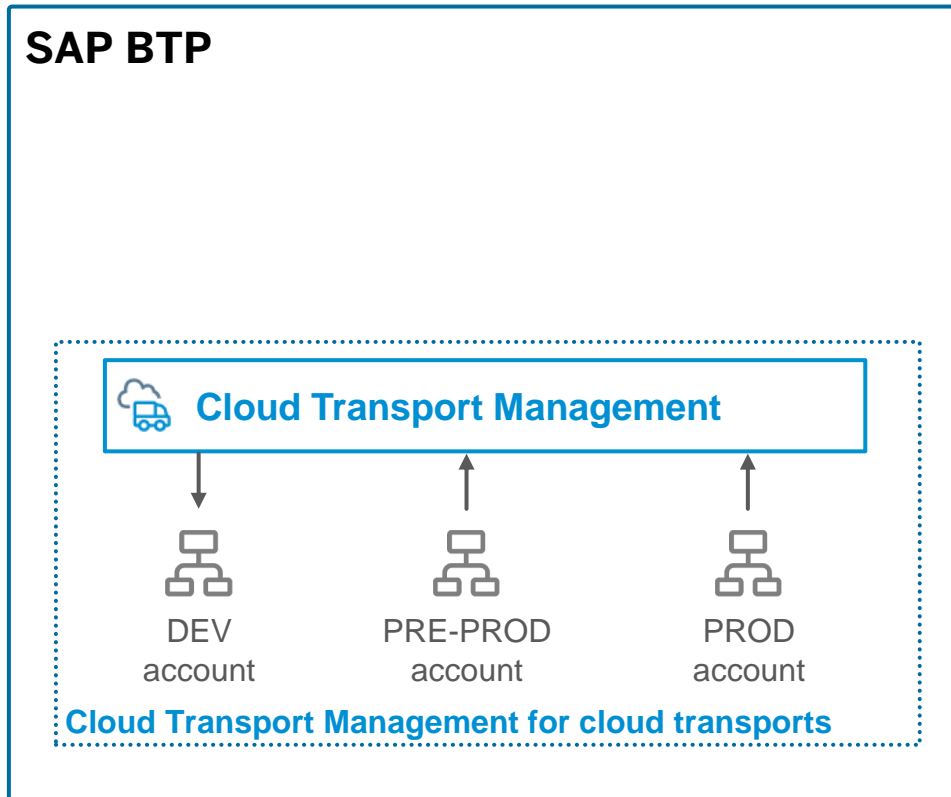


Manifold integration options:

- With CI/CD
- Basis for cloud integration into Change Management in SAP Solution Manager and SAP Cloud ALM
- Open APIs

Available via [SAP BTP free tier model](#), [PAYG](#), [CPEA](#)

Holistic Picture and Positioning of Transport and Change Management Coexistence of SAP Cloud Transport Management (cTMS) and CTS+



Holistic Picture and Positioning of Transport and Change Management

Coexistence of SAP Cloud Transport Management (cTMS) and CTS+

SAP Cloud Transport Management (cTMS) is the go-to solution for transporting in the cloud.

It can transport development artifacts (via MTA) and application-specific content.

cTMS will cover further content types in the future ([see roadmap](#)).

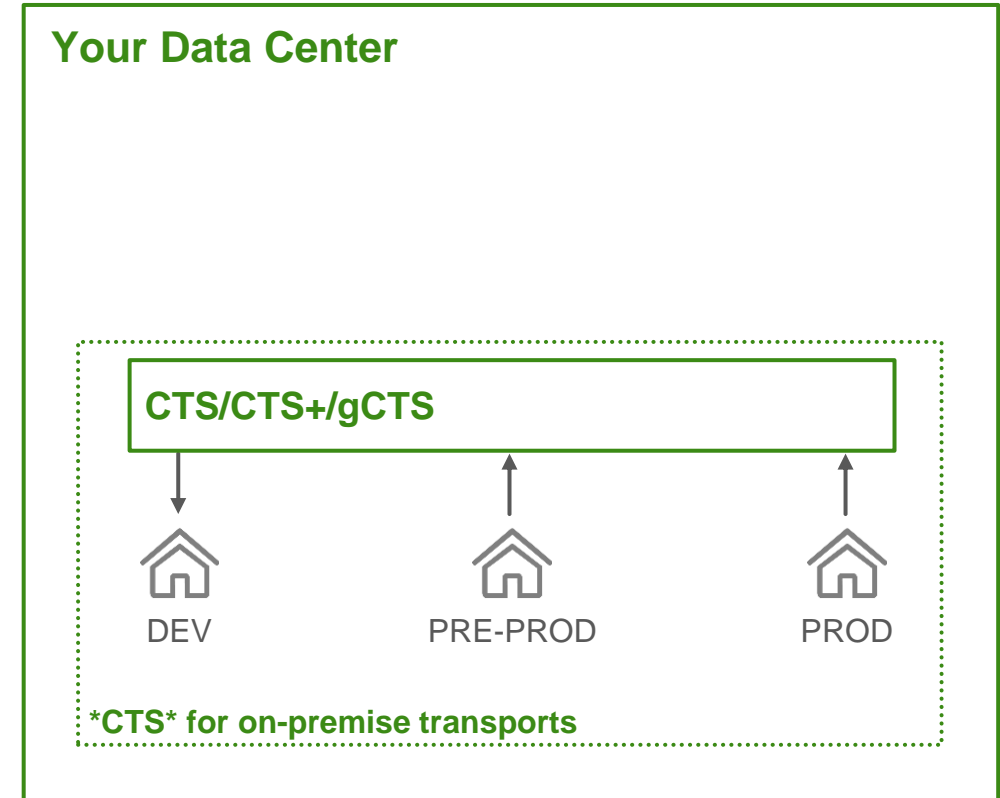
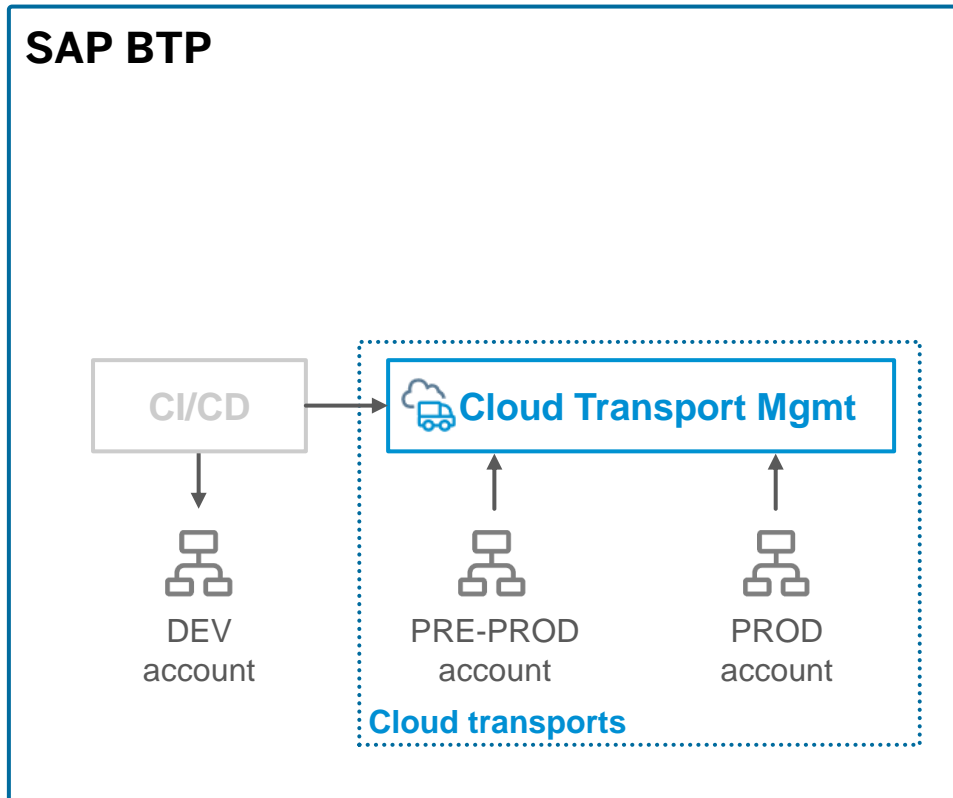
It covers the SAP BTP, **Neo** and **Cloud Foundry** environments and is planned to be extended to **further environments** (like SAP BTP, ABAP environment) and to **SAP SaaS solutions** (like SAP CPQ).

cTMS and CTS+ can be used in parallel: cTMS for cloud transports, CTS+ for non-ABAP on-premise transports.

cTMS is not planned to cover on-premise transports.

Holistic Picture and Positioning of Transport and Change Management

Combine cTMS with continuous integration (CI)



Holistic Picture and Positioning of Transport and Change Management

Combine cTMS with continuous integration (CI)

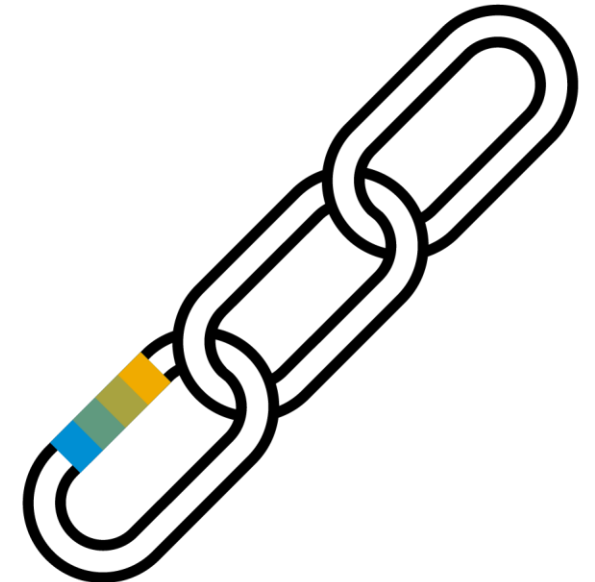
SAP Cloud Transport Management (cTMS) can be integrated in continuous integration/continuous delivery (CI/CD) pipelines.

Pipeline templates + pipeline library steps for cTMS integration are available in [Project “Piper”](#).

cTMS is also integrated into the [SAP Continuous Integration and Delivery](#) service.

cTMS offers public APIs to be integrated into any CI/CD infrastructure.

There are also pipeline templates and pipeline library steps in Project “Piper” for the integration of Enhanced Change and Transport System (CTS+).



Best practices for combining CI + transport management

Development landscape

- Based on *Continuous Integration* principles, managed by DevOps team
- Verification of single developer change
- Typically fully automated

Delivery landscape

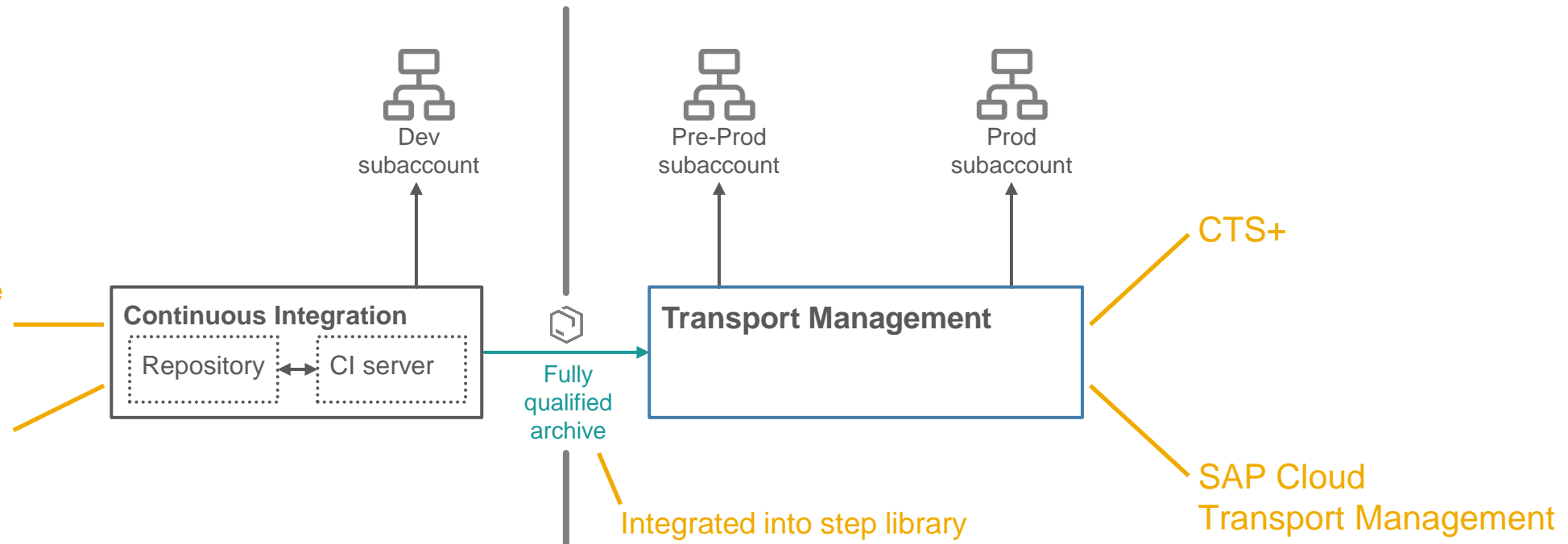
- Based on strict *Transport Management* rules (policies, schedules), managed by ops/approvers
- Verification of release candidate version
- Typically done with manual confirmation

Project „Piper“:

- Pipeline Templates
- Step Library
- Best practice guide

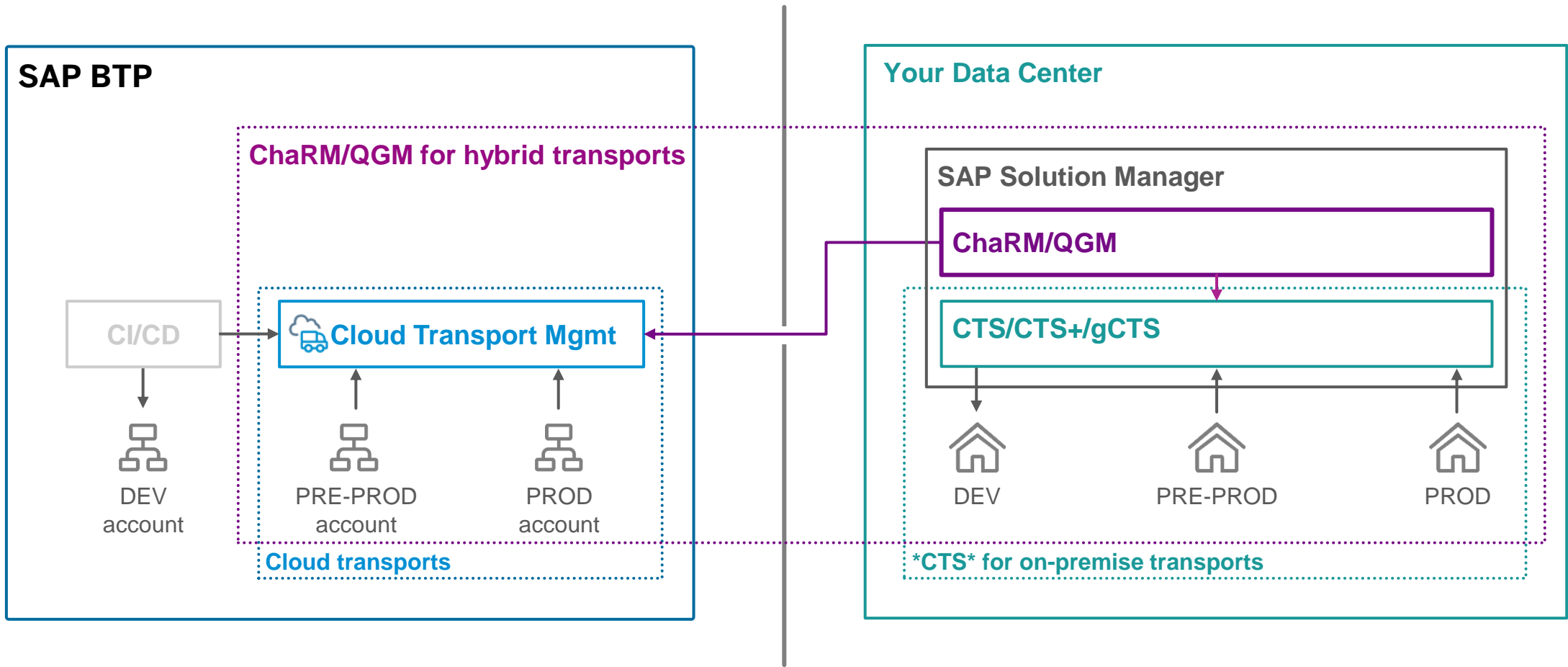
SAP Cloud SDK

gCTS



Holistic Picture and Positioning of Transport and Change Management

Integrate cTMS and CTS+ with Change Management on SAP Solution Manager



Holistic Picture and Positioning of Transport and Change Management

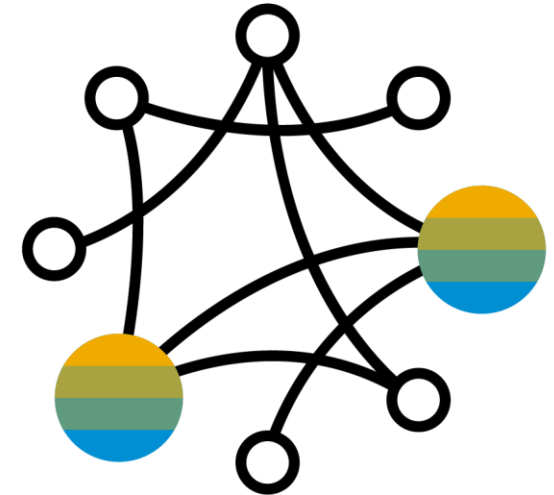
Integrate cTMS and CTS+ with Change Management on SAP Solution Manager

Both cTMS and CTS+ can be integrated with the Change Management tools on SAP Solution Manager: **Change Request Management (ChaRM)** or **Quality Gate Management (QGM)**.

This allows synchronized transports of ABAP on-premise (via CTS), non-ABAP on-premise (via CTS+) and cloud artifacts (via cTMS) in hybrid projects.

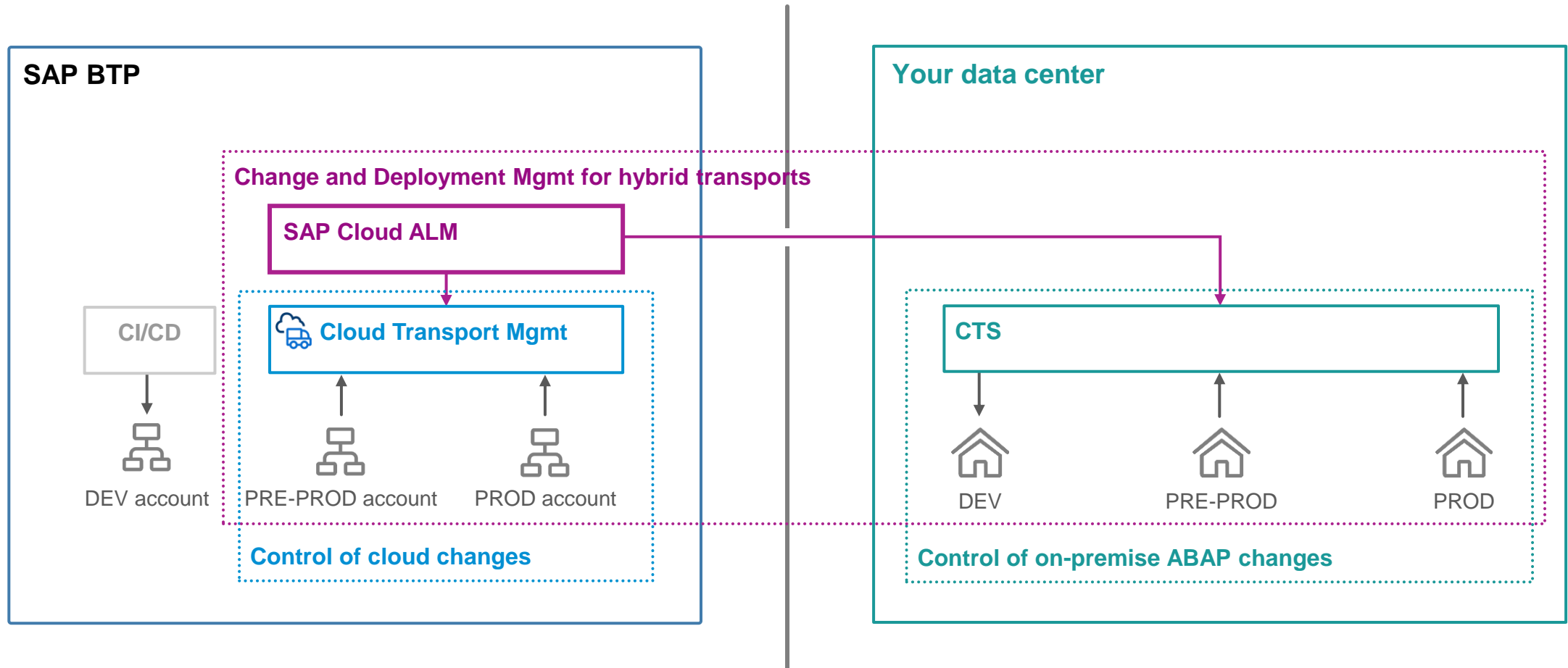
This setup is very important for customers with strict audit requirements (like banking or pharmaceuticals).

The prerequisite for integrating cTMS with SAP Solution Manager is release 7.2 with SPS10 (available as of December 2019).



Deliver your changes toward production

Holistic picture of delivery approaches – with SAP Cloud ALM



Holistic Picture and Positioning of Transport and Change Management

Integrate cTMS with SAP Cloud ALM

cTMS is reused from **SAP Cloud ALM** as the transport tool for cloud transports. The cTMS transport requests are attached to features in Cloud ALM. These features can also handle CTS-based on-premise transport requests

This allows synchronized transports of ABAP on-premise (via CTS) and cloud artifacts (via cTMS) in hybrid projects.

This integration is available from May 2022.



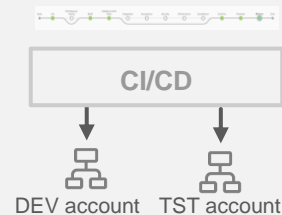
Holistic Picture and Positioning of Transport and Change Management

Example for evolution of delivery approaches for a project

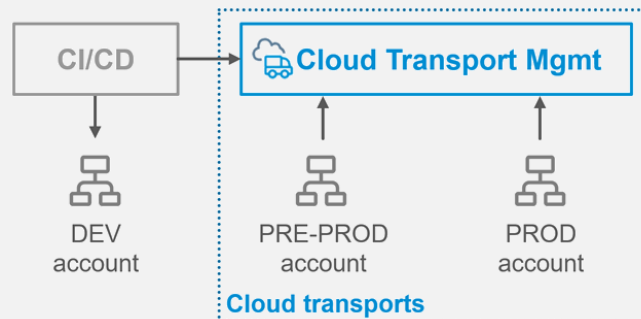
3 Hybrid interdependencies come up or get more important, so that you want to control them by synchronizing on-premise changes with cloud development

2 You release your project and want to have more control of your prod environment

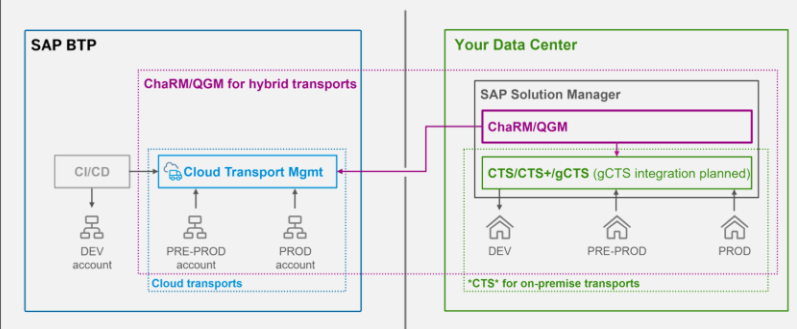
1 You start your project with a pipeline



Consider **Project “Piper”** and **Continuous Integration and Delivery service** to set up your environment quickly



Configure **automated handover** of release candidates from pipeline to transport management



Integrate transport management into **change management**

Further Information

[SAP Cloud Transport Management on SAP Help Portal](#)

[SAP Cloud Transport Management Roadmap](#)

[SAP Cloud Transport Management FAQ](#)

[DevOps topic page on SAP Community](#)

Blog posts:

- [Interplay of SAP Cloud Platform Transport Management, CTS+ and ChaRM in hybrid landscapes](#)
- [Integration of SAP Solution Manager ChaRM and cTMS](#)
- [Integration of SAP Cloud ALM and cTMS in the Development Use Case on Neo](#)

[Playlist on YouTube on BTP DevOps](#)

Thank you.

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