The Open Space of Application Operations within SAP BTP

Integrate SAP Cloud Transport
Management into Application
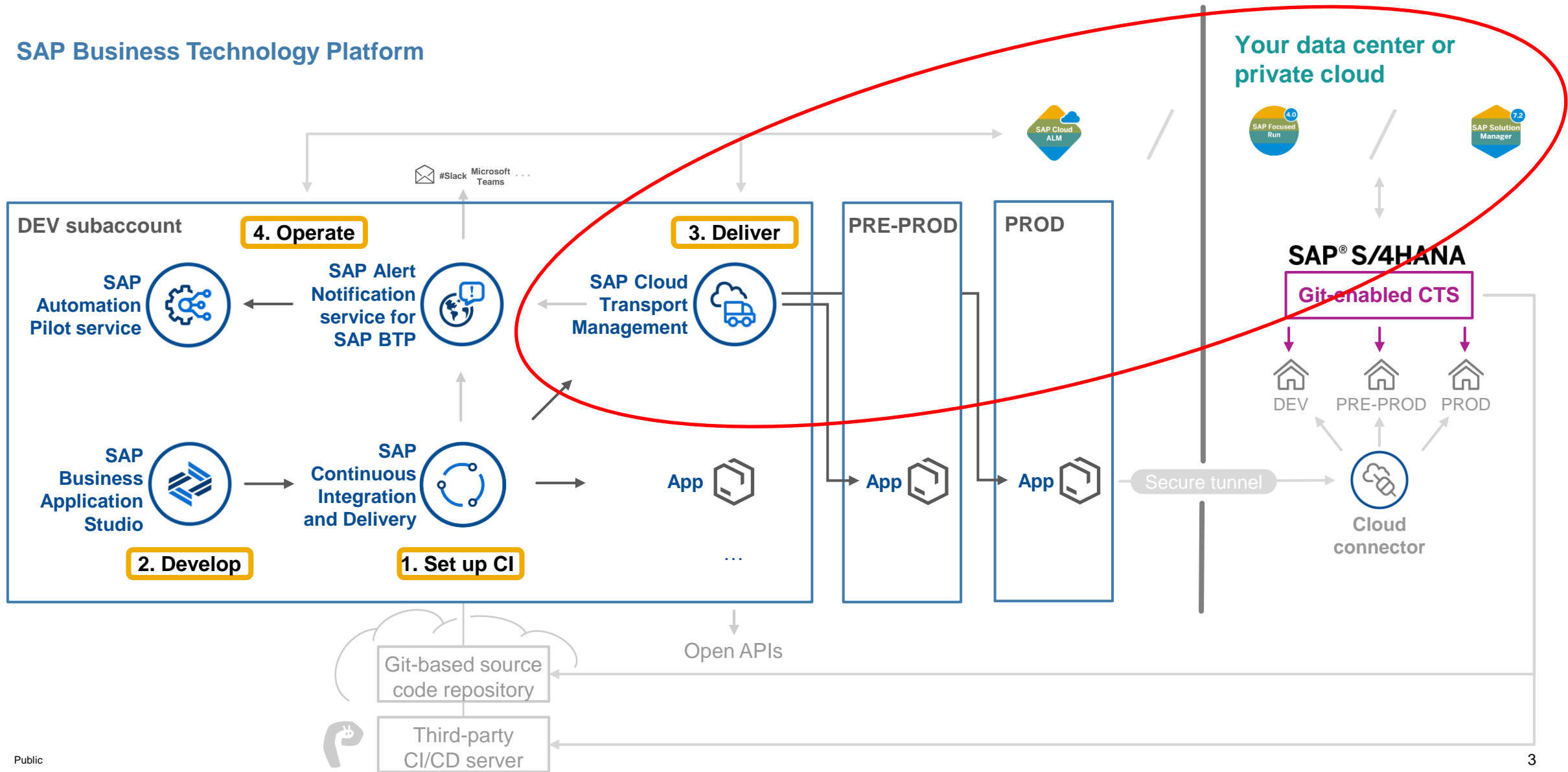Lifecycle Management solutions

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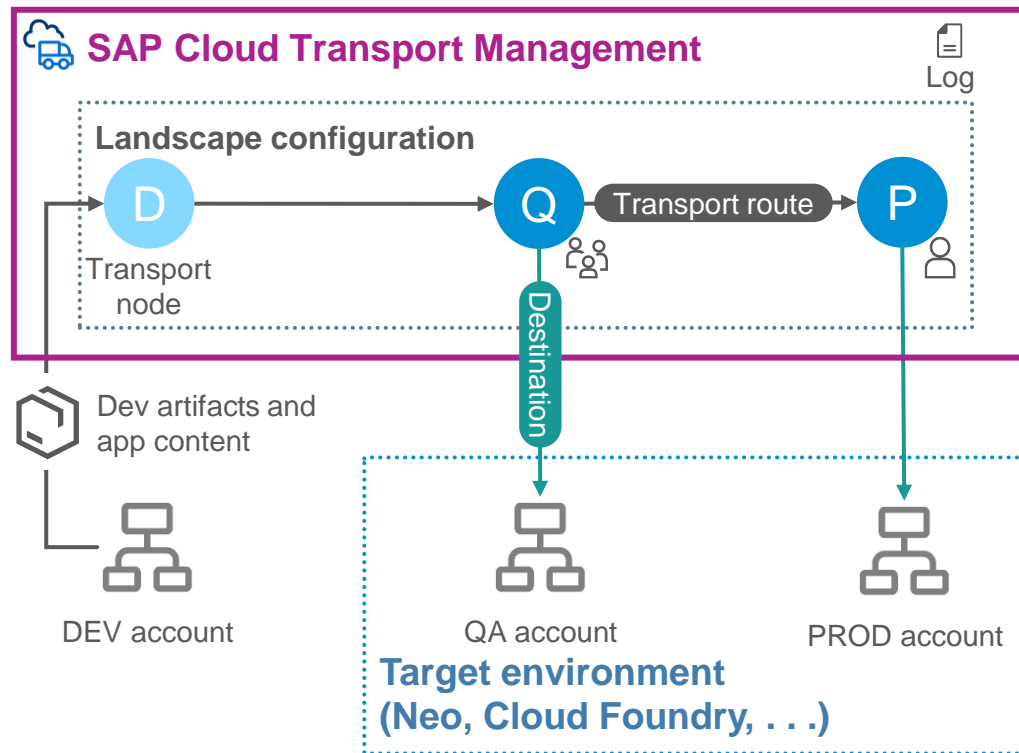# Focus of session on SAP Cloud Transport Management integration with ALM

Deliver your cloud changes toward production
SAP Cloud Transport Management service

Cloud-based transport management solution to handle the propagation of your changes in the cloud

SAP BTP

SAP Cloud Transport Management

Log

Landscape configuration

D → Q — Transport route → P

Transport node

Destination

Dev artifacts and app content

DEV account

QA account

PROD account

Target environment (Neo, Cloud Foundry, . . .)

- 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 SAP BTP ABAP, Cloud Foundry & Neo envs. of:
- **Dev artifacts** (MTA archives – like CTS+)
- In addition: **application content**   SAP Cloud solutions   …
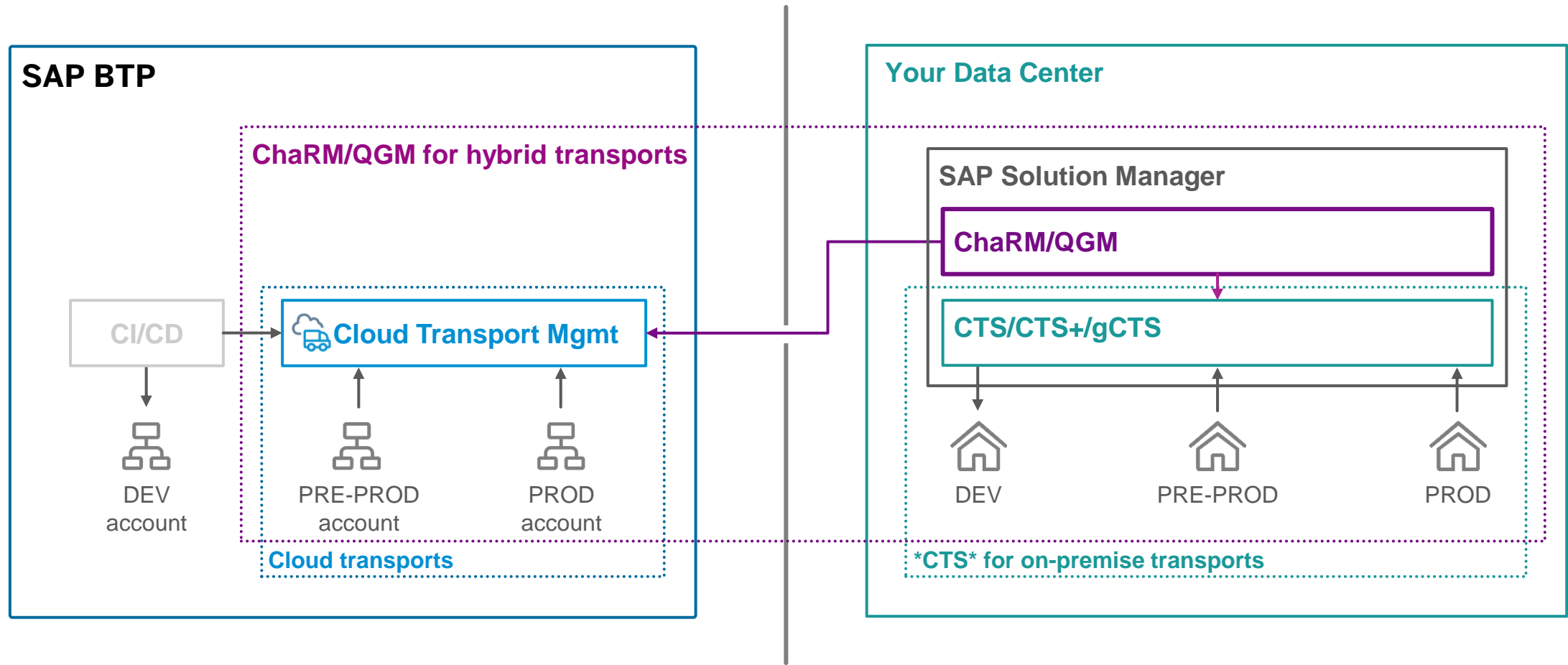- Further content types planned

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

Available via SAP BTP free tier model, PAYG, CPEA

4

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

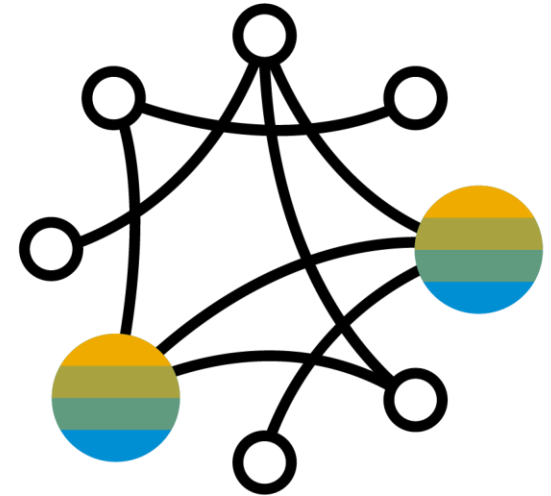**SAP BTP**

ChaRM/QGM for hybrid transports

CI/CD

☁🚚 **Cloud Transport Mgmt**

DEV
account

PRE-PROD
account

PROD
account

Cloud transports

Your Data Center

SAP Solution Manager

ChaRM/QGM

CTS/CTS+/gCTS

DEV

PRE-PROD

PROD

CTS for on-premise transports

Integrate cTMS with Change Management on SAP Solution Manager

SAP Cloud Transport Management (cTMS) can be integrated with the Change Management tools on SAP Solution Manager: **Change Request Management** (ChaRM) or **Quality Gate Management** (QGM).
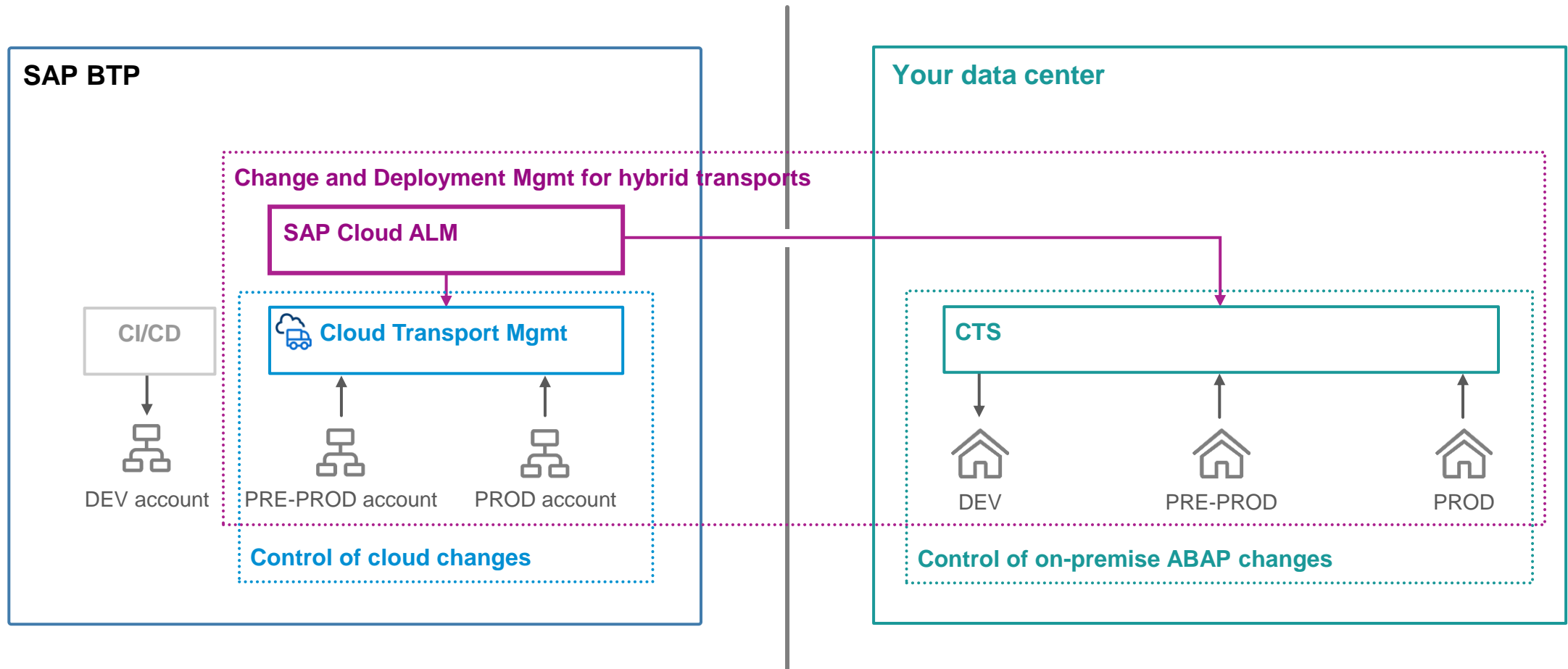
This allows synchronized transports of ABAP on-premise (via CTS), non-ABAP on-premise (via CTS+) and cloud artifacts (via cTMS) in hybrid projects.

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).

Integrate cTMS with SAP Cloud ALM

SAP BTP

Change and Deployment Mgmt for hybrid transports

SAP Cloud ALM

Cloud Transport Mgmt

CI/CD

DEV account   PRE-PROD account   PROD account

Control of cloud changes

Your data center

CTS

DEV   PRE-PROD   PROD

Control of on-premise ABAP changes

Integrate cTMS with SAP Cloud ALM

SAP Cloud Transport Management (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.

3. **Deliver** your **cloud** changes toward production

Best practice for delivery: combine agility + control

Development landscape

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

Delivery landscape

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

Optionally, use two pipelines (one to qualify single changes, one to trigger release), triggered by two branches

Dev subaccount

Pre-Prod subaccount

Prod subaccount

IDE	CI

Fully qualified archive

Transport Management

Change Management

Optional control

SAP Business App Studio

SAP Continuous Integration and Delivery service

Open source/ 3rd party **+** Project "Piper"

SAP Cloud Transport Management

(⌂ **CTS+**)

SAP Solution Manager 7.2

SAP Cloud ALM

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

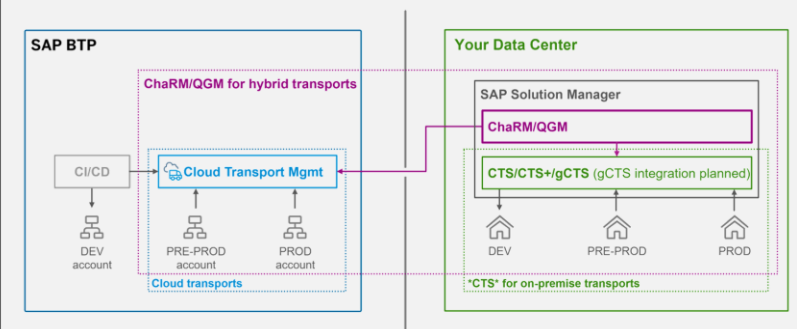**2** You release your project and want to have more control of your prod environment

1 You start your project with a pipeline

CI/CD

DEV account   TST account
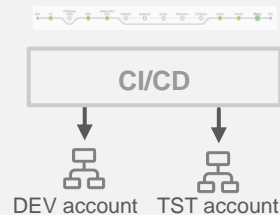
*Consider **Project "Piper"** and **Continuous Integration and Delivery service** to set up your environment quickly*

CI/CD → ☁ **Cloud Transport Mgmt**

DEV account   PRE-PROD account   PROD account

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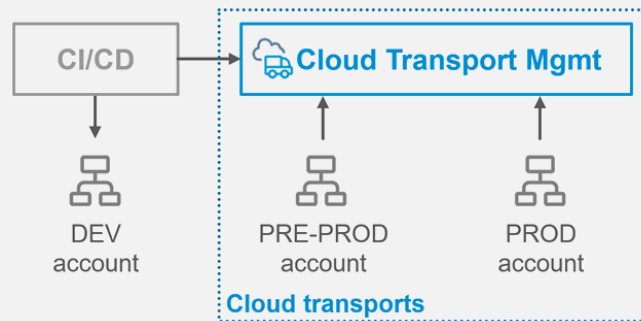
*Configure **automated handover** of release candidates from pipeline to transport management*

SAP BTP

ChaRM/QGM for hybrid transports

CI/CD → ☁ Cloud Transport Mgmt

DEV account   PRE-PROD account   PROD account

Cloud transports

Your Data Center

SAP Solution Manager

ChaRM/QGM

CTS/CTS+/gCTS (gCTS integration planned)

DEV   PRE-PROD   PROD

CTS for on-premise transports

*Integrate transport management into **change management***

Thank you.

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