

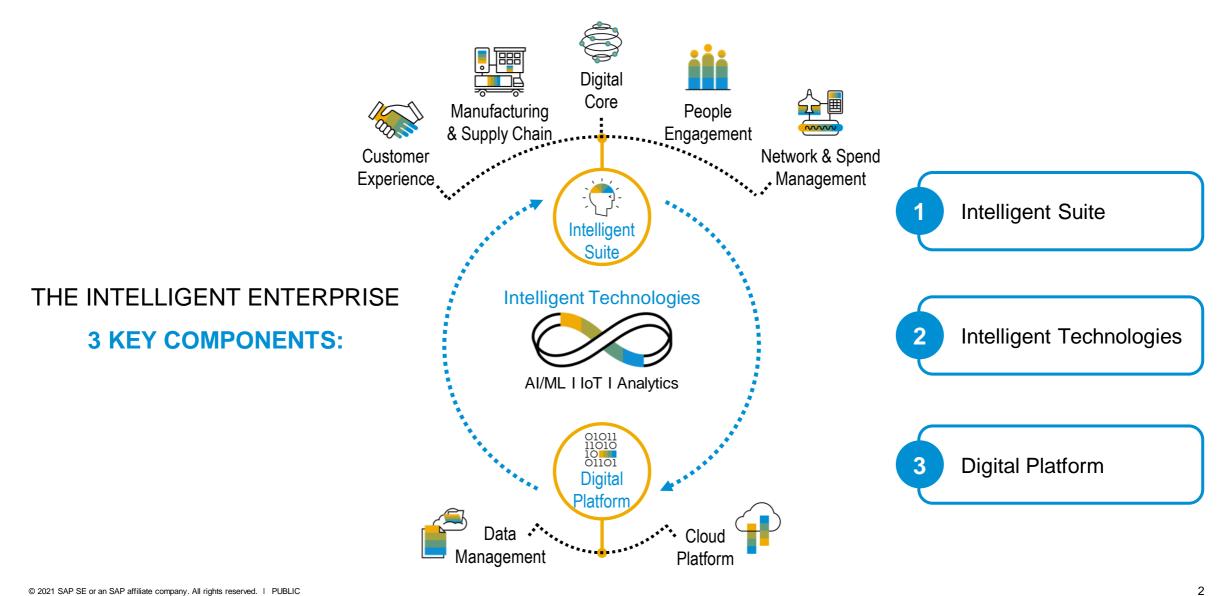
Introduction to ABAP in the Cloud

Unit 2: Introduction to SAP BTP, ABAP Environment





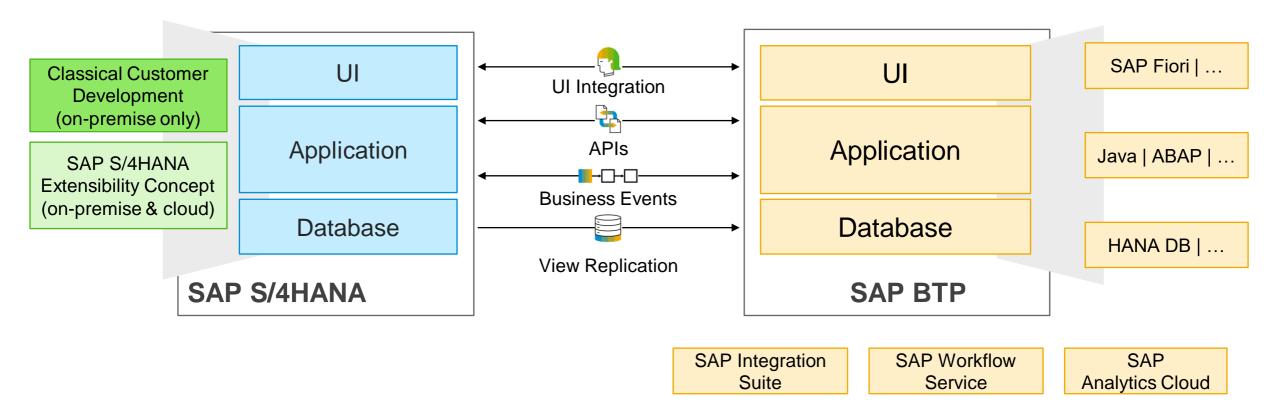
SAP Intelligent Enterprise Framework



SAP S/4HANA side-by-side – overview: custom/partner extensions

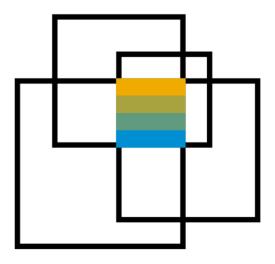
In-App Extensibility

Side-by-Side Extensibility



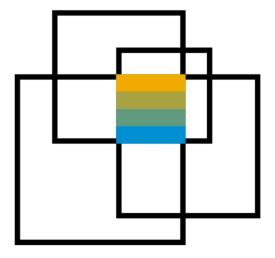
ABAP language feature scope

- Enablement of smooth ABAP PaaS operation through restricted ABAP language feature set intended for developments on SAP BTP, ABAP environment
- Object-oriented
- ABAP language extensions provided for the development of transactional service-based SAP Fiori business applications
- Access only allowed to released development objects and programming interfaces



ABAP SQL feature scope

- Enablement of smooth ABAP PaaS operation through restricted ABAP SQL feature set support on SAP BTP, ABAP environment
- Major restrictions (i.e. not supported)
 - SQL-CONNECTION and SELECT-CONNECTION to avoid unwanted secondary database connection
 - SQL-CONNECTION-DYNAMIC and SELECT-FROM-DYN due to no support for dynamic performance
 - SELECT-CLIENT-SPECIFIED and SELECT-USING-CLIENT to enforce client separation
 - Obsolete statements like SELECT-FOR-UPDATE





Introduction to SAP BTP, ABAP environment

SAP BTP licensing

SAP BTP is available as

- Global Account
- Trial

Global Account

- SAP BTP Enterprise Agreement (CPEA) or Pay-As-You-Go for SAP BTP
- All features available

Trial

- https://account.hanatrial.ondemand.com
- Free service plans
- Reduced feature set (but still very powerful)

Overview: SAP BTP ABAP service: structure and terminology

Which SAP BTP?

Global Account or Trial?

Select Specific ABAP Service Instance

Where exactly?

- Global Account
- Subaccount
- Space
- ABAP Service Instance

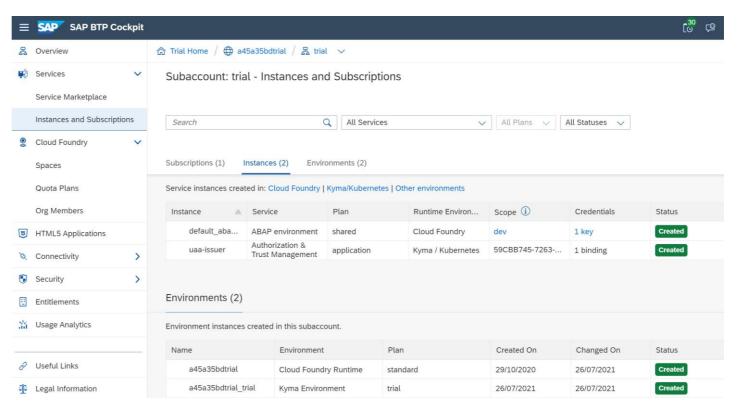
Prepare User Accounts

How to log on to ABAP?

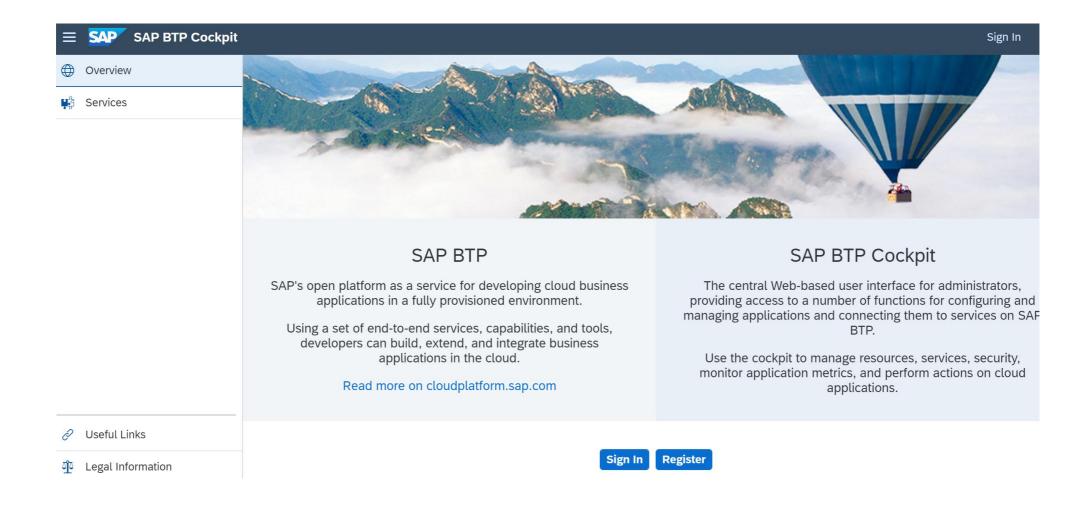
- SAP BTP User
- Subaccount Member / Space Member
- Employee
- Business User

Logon credential prerequisites (to log on to your ABAP service instance)

- Get a global account to develop and deploy applications on SAP BTP.
- Set up your account model to get your SAP BTP global accounts and subaccounts that enable you to access the relevant SAP BTP products within the production landscape.
- Create a space.
- Set up an ABAP service instance.
- Configure your environment to adapt the service instance that represents the ABAP system to your company's needs. For example, you might want to provide user access for the application.

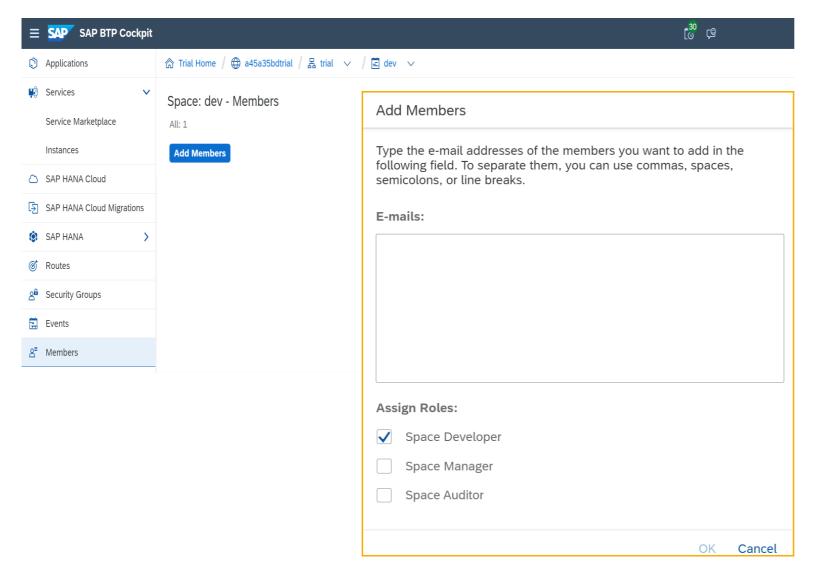


Registering for SAP BTP



Introduction to SAP BTP, ABAP environment

Creating subaccount / space members



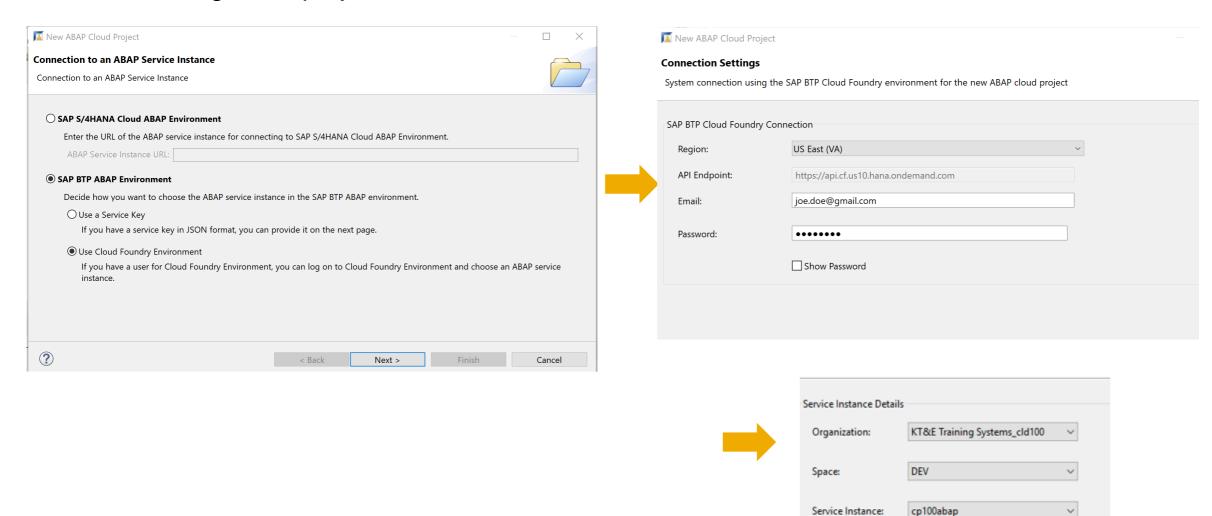
When creating a space member, a subaccount member will be created implicitly as well.

The user should be a valid SAP BTP user, otherwise they cannot log on to the ABAP service later.

Introduction to SAP BTP, ABAP environment

Logging on to ABAP service from Eclipse with logon credentials

When creating cloud project



ABAP Development Tools in Eclipse – high developer productivity

- Full ABAP for SAP HANA support
- SQL tools, incl. data preview and SQL console
- Troubleshooting tools like debugger, tracing, dump analysis
- Quality tools for static code checks and unit testing

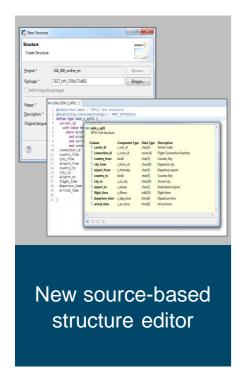
- . . .

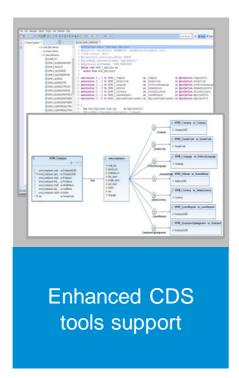
Superior ABAP toolset provided in Eclipse

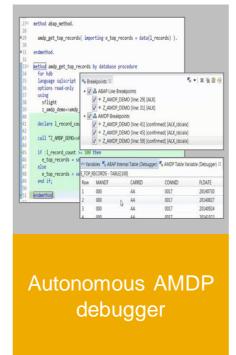
Open and extensible

- SAP's central Eclipse update site on <u>https://tools.hana.ondemand.com</u>
- SDK for partner and customer extensions
- Eclipse marketplace & community

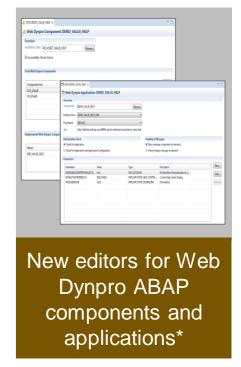
ABAP Development Tools in Eclipse – major enhancements in ABAP 7.50









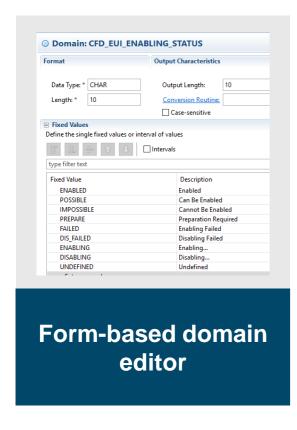


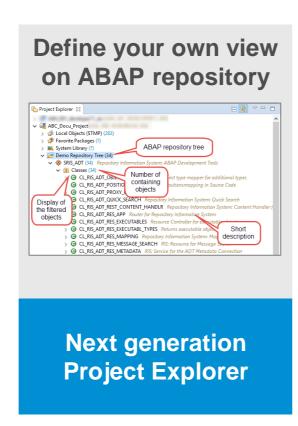


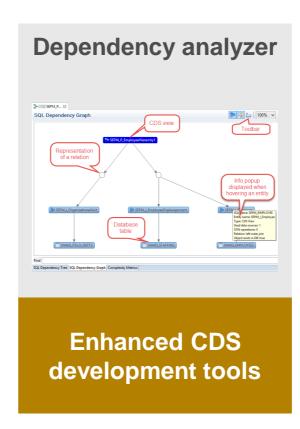
More about: ADT 2.51 for AS ABAP 7.50, ADT 2.64 for AS ABAP 7.50

* Not available in ABAP environment

ABAP Development Tools in Eclipse – major enhancements in ABAP 7.51





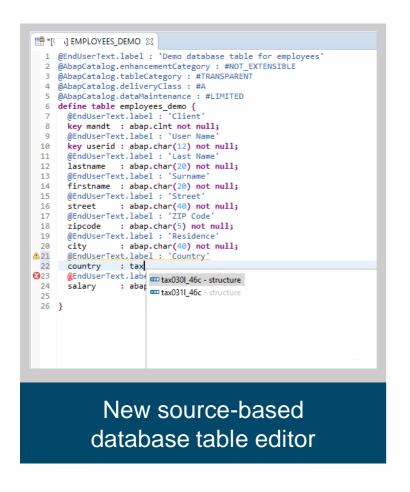


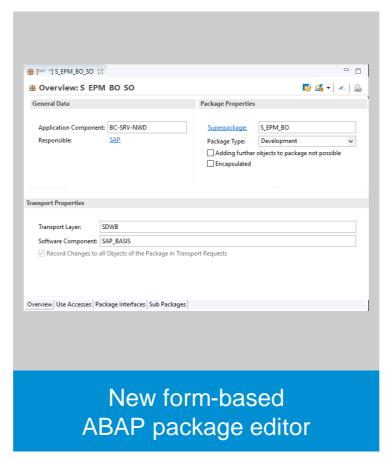


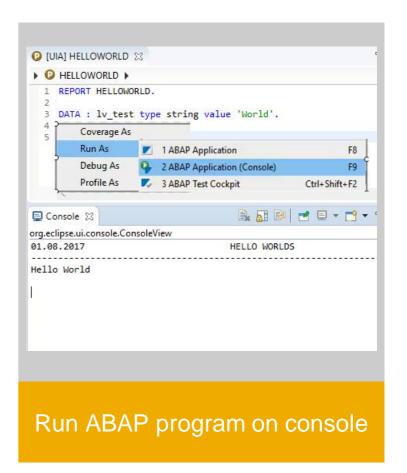


More about: <u>ADT 2.68 for AS ABAP 7.51</u>, <u>ADT 2.73 for AS ABAP 7.51 SP01</u>

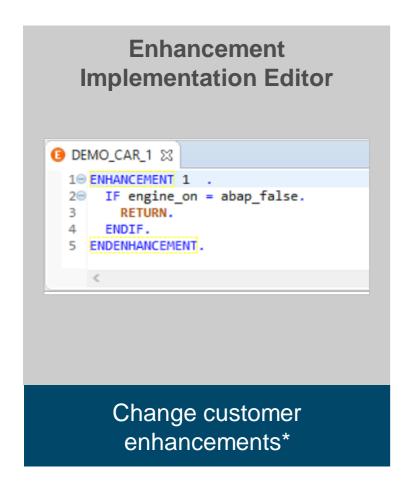
ABAP Development Tools in Eclipse – major enhancements in ABAP 7.52 (1)

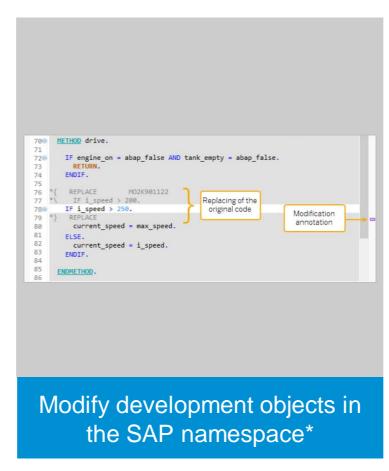


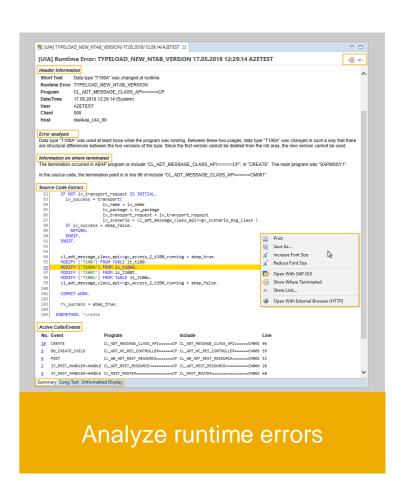




ABAP Development Tools in Eclipse – AS ABAP 7.53 features overview (1)







* Not available in ABAP environment

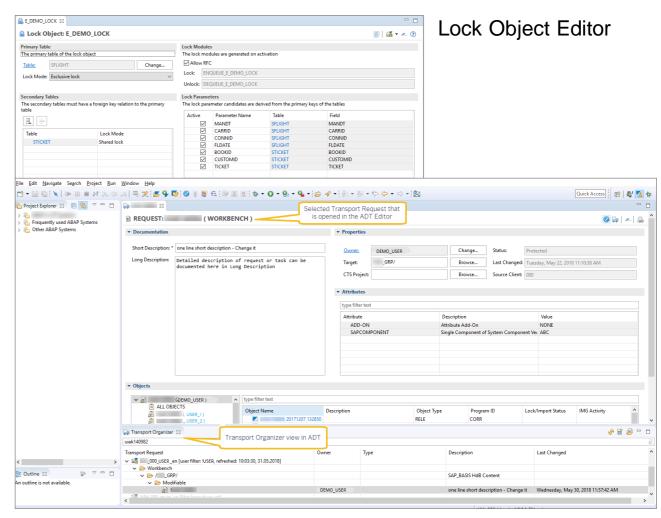
ABAP Development Tools in Eclipse – AS ABAP 7.53 features overview (2)

Classic objects in ABAP Dictionary

Create and edit lock objects

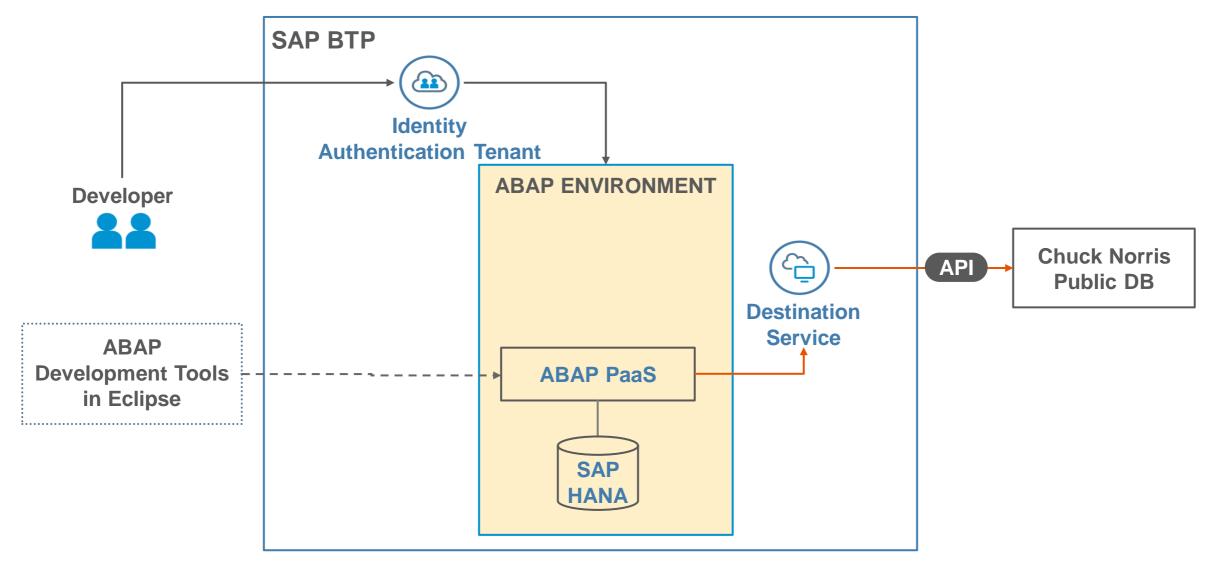
Transport Organizer

View and edit details of a transport request

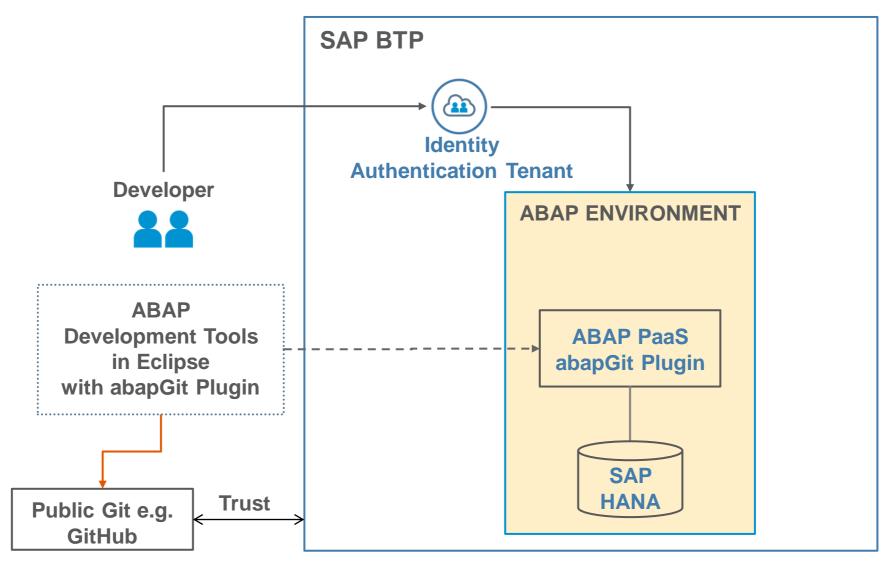


Transport Request Editor

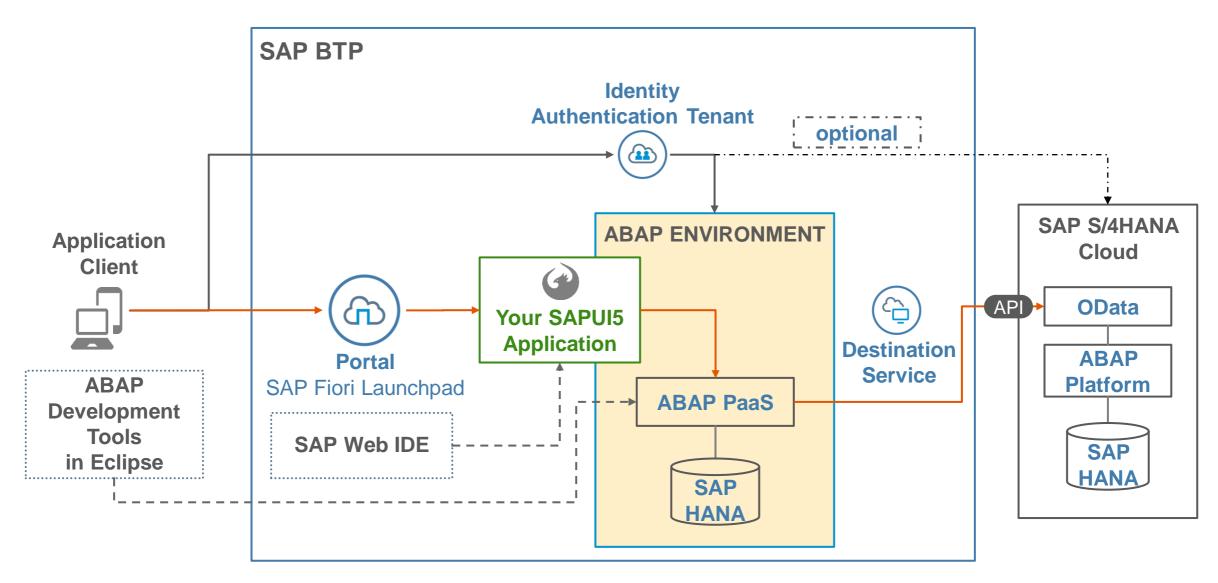
Scenario 1: call an external HTTP service



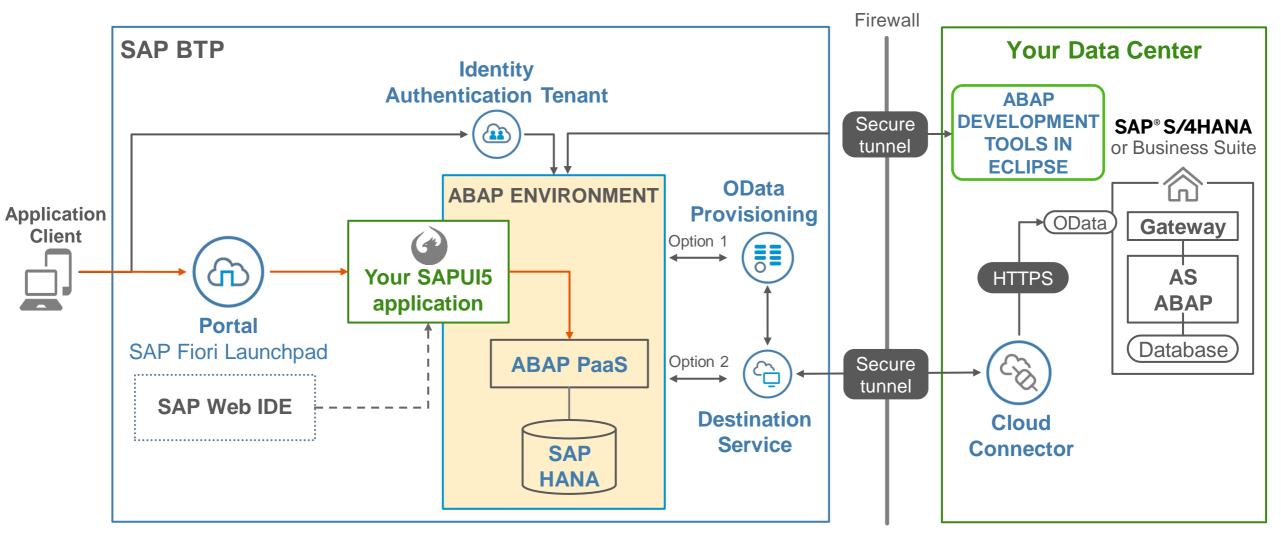
Scenario 2: import sources via abapGit



Scenario 3: SAP S/4HANA Cloud extension



SAP S/4HANA on-premise extension architecture (coming soon)



Thank you.

Contact information:

open@sap.com





Follow all of SAP











www.sap.com/contactsap

© 2021 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platforms, directions, and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.

See www.sap.com/trademark for additional trademark information and notices.

