Community

Ask a Question   Write a Blog Post

Personal Insights

Lars Hvam

September 1, 2023 | 1 minute read

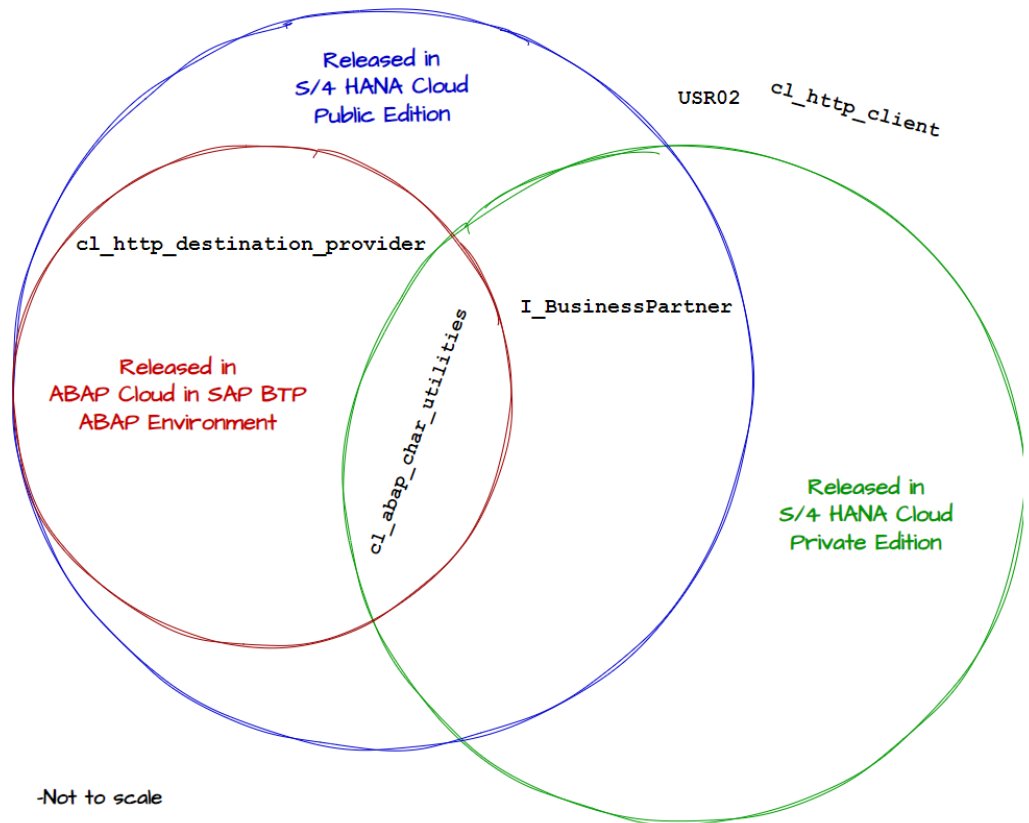# ABAP & http, why can't we just have something nice?

💬 0   👍 0   👁 1   Edit

As noted in the last section of ABAP & Excel, why can't we just have something nice? its not only Excel that is a challenge, its the same with JSON and http. This blog post focuses on http, which is difficult to get working everywhere.

As noted by Martin Pankraz in SAP S/4HANA Cloud ABAP Environment integration journey with Microsoft – Part 1 – Microsoft Teams approval, there is currently no http client released in S/4 HANA Private Cloud.

It is, however, possible to do a wrapper as per Enable HTTP Communication in Your ABAP Code

Released APIs?

Until now, I've assumed that logic implemented in *ABAP Cloud in SAP BTP ABAP Environment* would automatically be compatible with *S/4 HANA Cloud Public Edition* and *S/4 HANA Private Edition*, assuming its the same quarterly/yearly/bi-yearly release. But looks like the picture is more like,
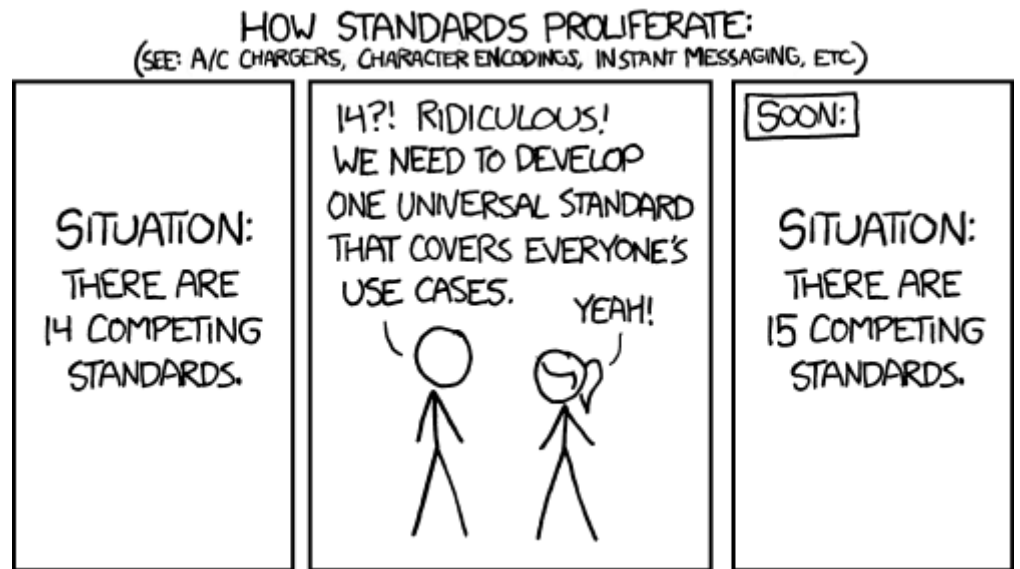
Released in
S/4 HANA Cloud
Public Edition

USR02   cl_http_client

cl_http_destination_provider

I_BusinessPartner

cl_abap_char_utilities

Released in
ABAP Cloud in SAP BTP
ABAP Environment

Released in
S/4 HANA Cloud
Private Edition

-Not to scale

With CL_HTTP_CLIENT not released, and CL_HTTP_DESTINATION_PROVIDER released in *ABAP Cloud in SAP BTP ABAP Environment* and *S/4HANA Cloud Public Edition*.

The diagram might be incorrect, but there is no transparency was to what is released when/where. api.sap.com only includes a subset of the released objects, and it's not versioned or machine readable. As noted in 2020 this is a challenge to the ABAP ecosystem, making it difficult for partners and customers to write future compatible code.

Lets do it?

So what's the fix? CL_HTTP_CLIENT and CL_HTTP_DESTINATION_PROVIDER has small differences to the method signatures making them incompatible seen from a consumer perspective.

from xkcd.com

My suggestion would be to write a new nice http client library, which can be used anywhere, but it does require a http client to be released in *S/4 HANA Cloud Private Edition*.

Pull requests welcome, https://github.com/open-abap/cross-http-client

🤠

Alert Moderator

Assigned Tags

SAP BTP, ABAP environment

ABAP Development

Similar Blog Posts   ⌃

abap2UI5 - Development of UI5 Selection Screens in pure ABAP

By Oblomov Dev   Jan 22, 2023

New SAP Learning Journey available: Acquire Core ABAP Skills

By Andre Fischer   May 11, 2022

It's Trial Time for ABAP in SAP Business Technology Platform

By Andre Fischer   Sep 28, 2019

Related Questions   ⌃

BTP ABAP Env./Cloud: XLSX-Read Access -> How to determine Cell Style? (text, number, ...)

By Alexander Rützel   Aug 24, 2023

How to migrate ABAP with "call sceen" and "call function" to S/4HANA?

By Thomas Madsen Nielsen   Sep 05, 2022

Cloud project preview ask for credentials, although @AccessControl.authorizationCheck: #NOT_REQUIRED

By Sadullah TANRIKULU   May 17, 2023

Be the first to leave a comment

Add Comment

Find us on

Privacy	Terms of Use
Legal Disclosure	Copyright
Trademark	Cookie Preferences
Newsletter	Support