



SAP Cloud Application Programming Model

<https://cap.cloud.sap>

Roundtable #5

April 5th, 2023

PUBLIC

Today's hosts:



Sebastian Schmidt



**Michael
Hellenschmidt**

Agenda



Introduction: Recap from last Roundtable

5 min

Tools Update

30 min

Interactive Documentation w/ Notebooks – Mara Kiefer

[Common Content Package](#) – Christian Georgi

CDS Syntax Highlighting on GitHub – Christian Georgi

Update on Java Runtime

30 min

HCQL Adapter – Robin de Silva Jayasinghe

Improvements in Memory Consumption of CDS Models – Adrian Görler

Additional Persistence Services – Marc Becker

Reliable Paging – Vladimir Mikhaylenko

10 min

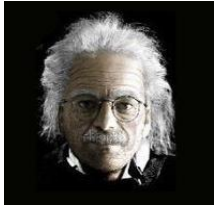
Open discussion

We are providing access to the people that drive product development

CAP Leads



Ole Lilienthal
Head of unit



Daniel Hutzler
CPO

Product Owners



Steffen Weinstock



Johannes Vogel



Matthias Braun



Adrian Görler



Christian Georgi

Areas

CDS / Compiler

Node.js runtime

Java runtime

Tools

Summary of Forth CAP Customer Roundtable in January 18th



We had:

1. **CAP@TechEd** summary (incl. **Open Source**) (*Anna 5min*)

2. **Multitenancy - News & Outlook** (*Christian 15min*)

3. **Upsert - GA Update** (*Adrian 10min*)

4. **Java Major Release Preview** (*Matthias 10min*)

5. **Node.js Roadmap** (*Johannes 10min*)

6. **reCAP 2023** (&UI5con) is coming! (*Sebastian 5min*)

• Q with regards to capire:

- Does CAP needs help in documentation?
- Search in capire, toggles, etc.?

Hot Dev Summer 2023

Wednesday
July 5th



**Azure Cosmos DB
Hackathon**

Thursday
July 6th

UI5con

UI5con

Friday
July 7th



re>CAP

Saturday
July 8th



SAP CodeJam (CAP)
Service integration with CAP



- Thanks for all your **session proposals!**
→ *Final **agenda** is in progress and will be published soon...*
- **Registration** for UI5con, re>≡CAP, and hackathons will open on **April 27th**
→ *We'll let you know soon...*
- Full **onsite** conference with (partial) **streaming**
→ *Make sure to **join us** in St. Leon-Rot!*

re>≡CAP 2023 | Confirmed Sponsors



Platinum Sponsors



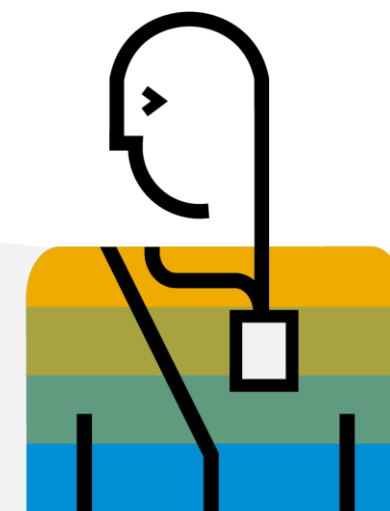
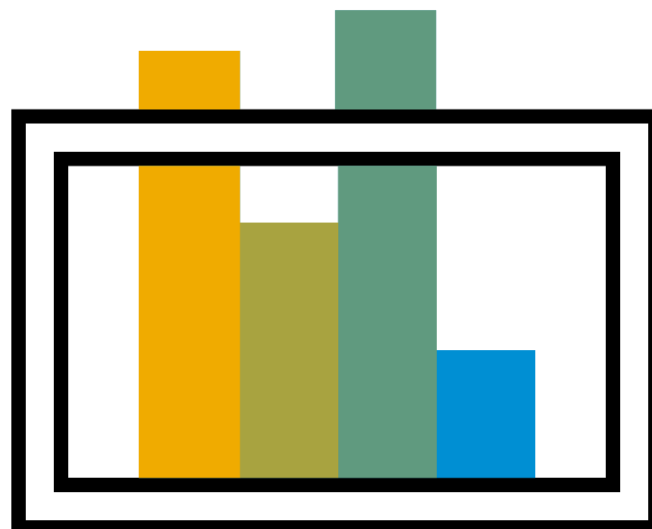
Gold Sponsors





Presentation #1


Tools Update – Mara Kiefer, Christian Georgi



What is a CAP Notebook?

A custom (CAP) VS Code Notebook for all...

- ❑ *You:* to create and share documents with *live code, visualizations & markdown*
- ❑ *Others:* to understand, check, and reproduce



SAP CDS Language Support
SAP SE  |  41,381 installs |  (4)
Language support for SAP CDS for Visual Studio Code

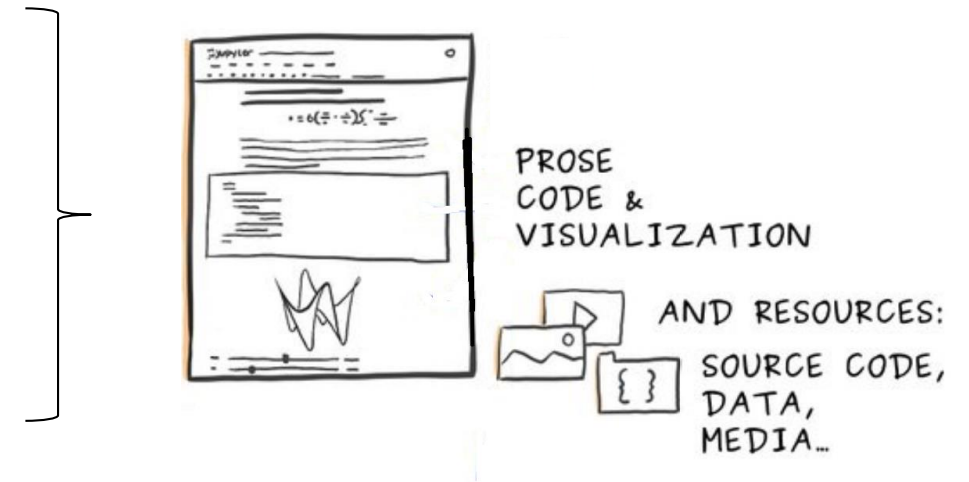


What is a CAP Notebook?

It combines the **REPL** and **IDE** features we need...

- ❑ REPL -> ... for interactive testing
- ❑ IDE -> ... for writing persistent code

Plus, it just looks nice!

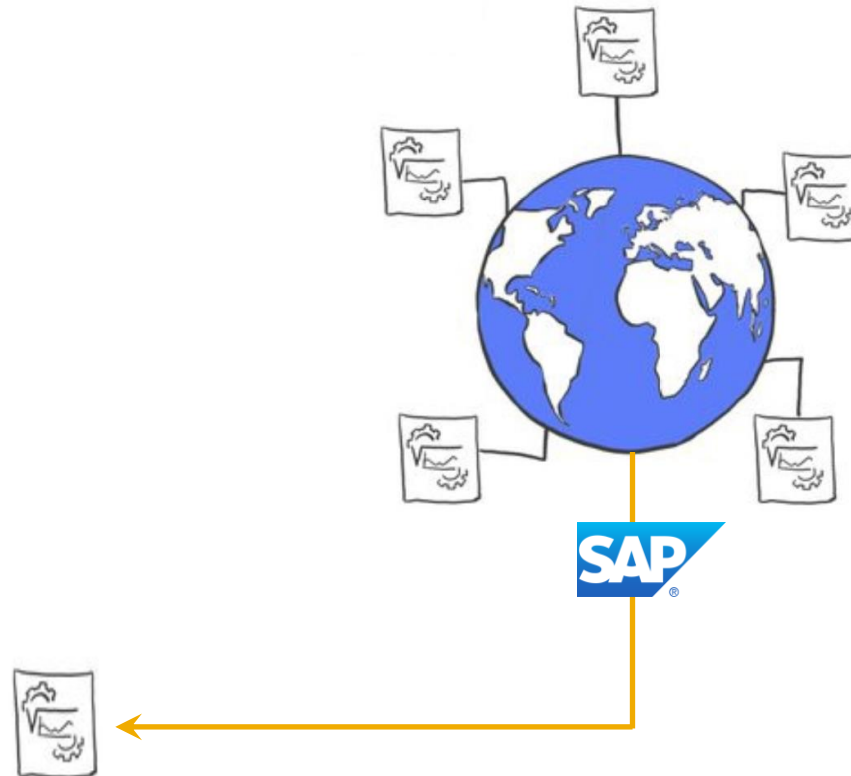


What is a CAP Notebook?

It has a **variety of applications** in...

- ❑ Teaching & demonstrations
- ❑ User support, testing & debugging
- ❑ <Your idea(s) here!>

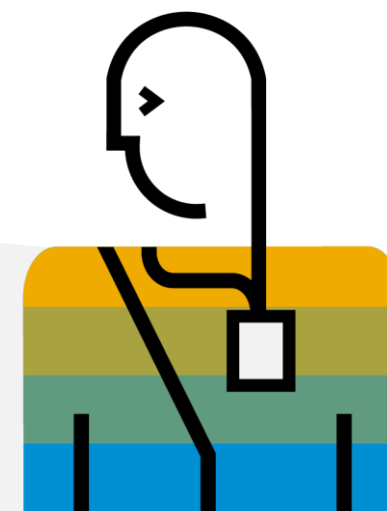
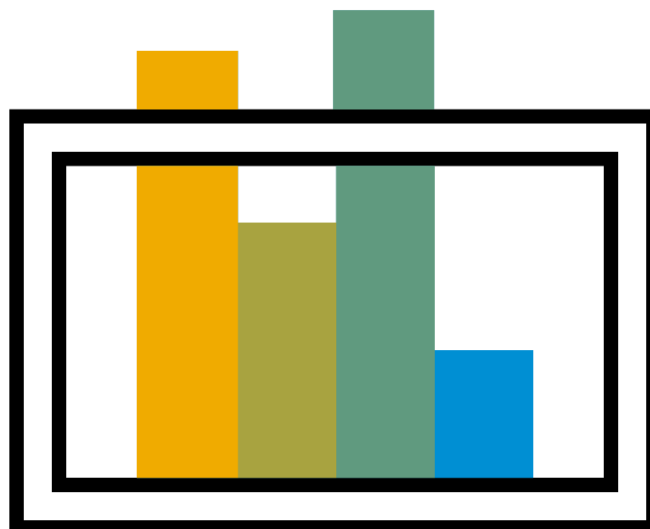
Demo: **CAP Notebooks buttons** in [Capire](#)





Presentation #2

Java Runtime Update – Robin de Silva Jayasinghe, Adrian Görler, Marc Becker



HCQL protocol for remote services



Disclaimer: everything shown in the demo has preview state!

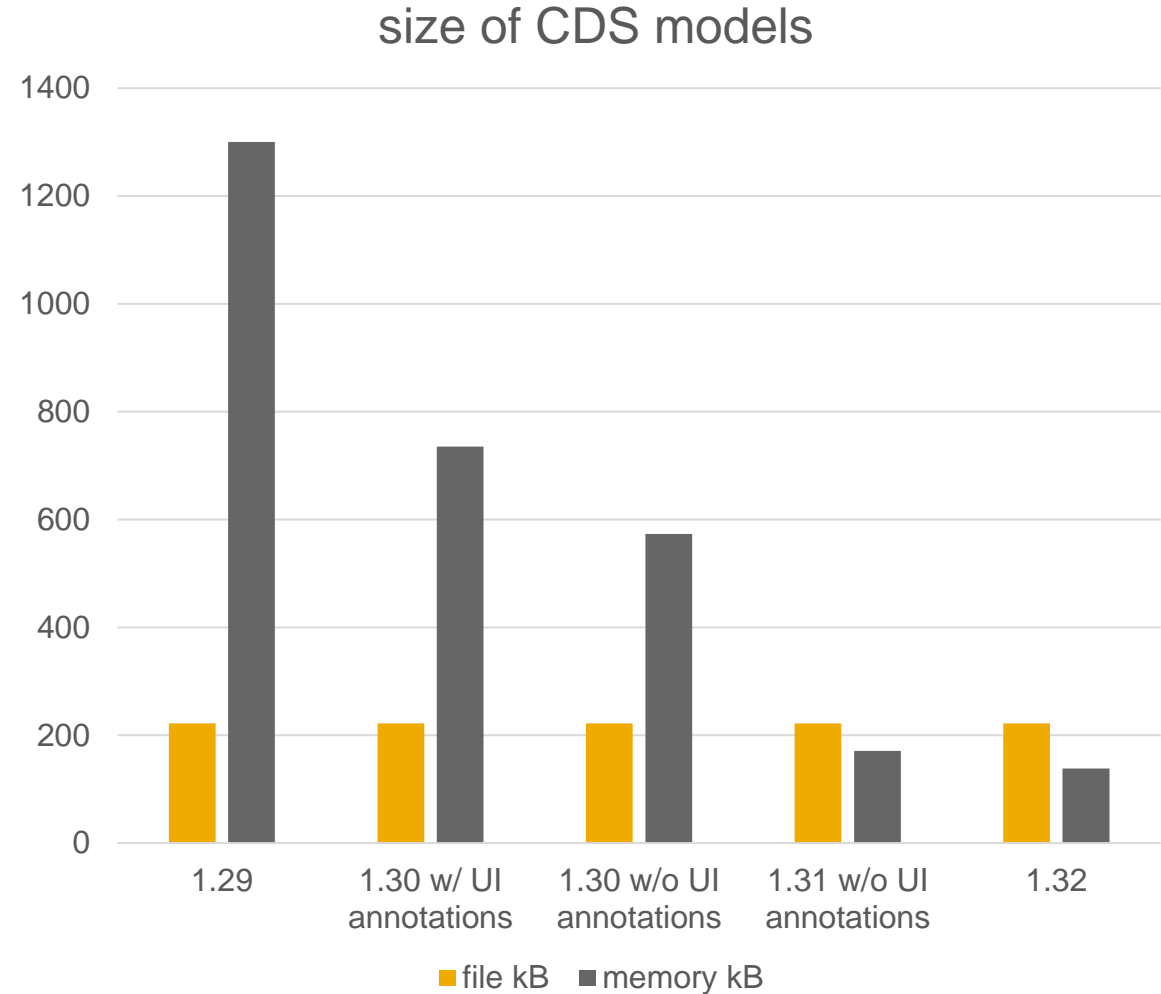
- What's in it for you?
 - A new and optimized protocol for **remote service calls** in CAP.
 - Call other (capable) remote services **without using OData** as a transport protocol
 - Instead enable CAP services to open **endpoints for CQN statements**.
 - And introduce outward communication that directly emits CQN.
 - Usable **without changes** to your application code.

CDS Model Size



- More compact storage
- Interned Strings
- Stripped UI Annotations
- Deduplication
 - Annotations
 - Types
 - Shared across tenants

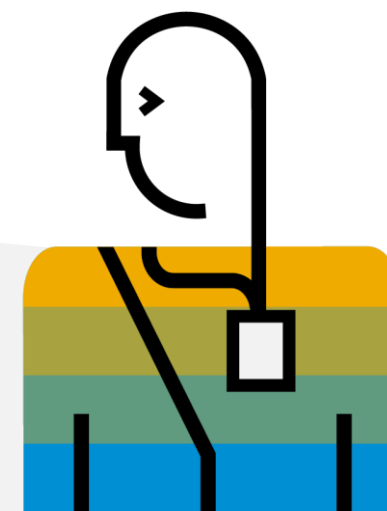
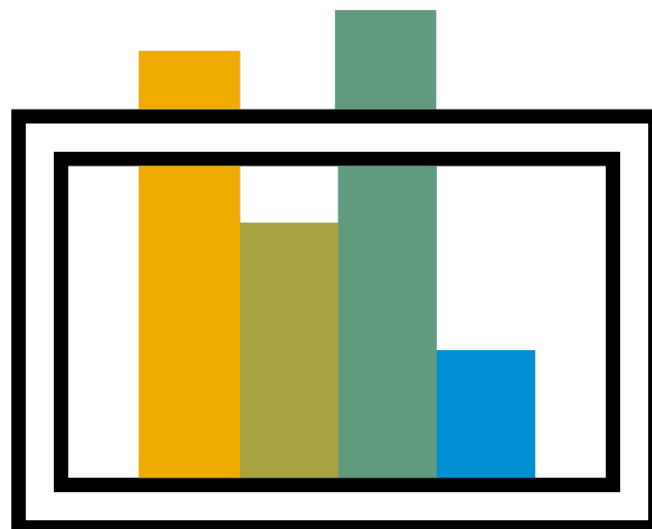
Effort is ongoing





Presentation #3

Reliable Paging – Vladimir Mikhaylenko



CAP Events Overview

Stay in touch!



All available information on past and future CAP events.

re>=CAP 2023

- **Date:** 7th of July
- **Place:** St. Leon-Rot, Germany
- **Type:** Onsite developer conference (with partial online streaming)



[Landing Page](#)

[Call for Session Proposals \(Deadline: 31st of March\)](#)

[Announcement](#)

Add re>=CAP to your calendar: [Google](#) | [Office 365](#) | [Outlook](#) | [iCal](#)

THE developer conferences come together!

UI5con and re>=CAP are happening two days in a row. So you can get the **full stack conference experience**. Don't miss it.

SAP Customer Roundtable April 2023

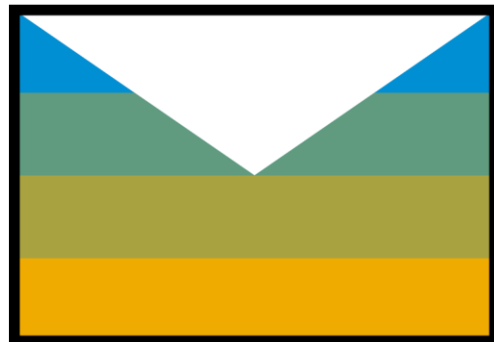
- **Date:** April 5th, 2023 11 AM EST | 5 PM CEST



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<https://cap.cloud.sap/docs/events/>

<https://community.sap.com/topics/cloud-application-programming>





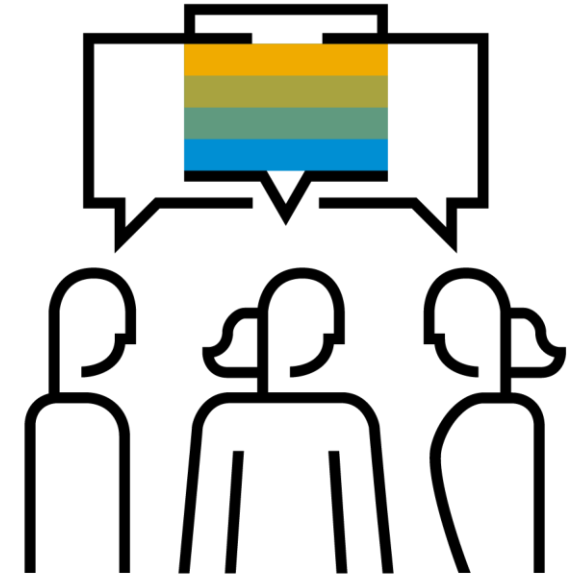
Q&A

Open discussion – what's on your mind regarding CAP?



Possible topics:

- What are you working on?
- What are you interested in learning more about?
- What feedback do you have on our products?
 - What do you like?
 - What do you need CAP to do that it does not?
 - What new capabilities do you need from CAP?
- Are you stuck in your projects?
- Would you like to demo what they you working on?





Thank you.

Contact information:

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