



SAP Cloud Application Programming Model

<https://cap.cloud.sap>

Roundtable #9

June 04th, 2025

PUBLIC

Agenda



Intro → re>≡CAP 2025 <i>(Sebastian Schmidt)</i>	5 Min
New Major Release <i>(Christian Georgi)</i>	5 Min
New CAP License <i>(Sebastian Schmidt)</i>	5 Min
Improved UX with Draft Messages <i>(Marc Becker)</i>	15 Min
Fiori Tree Table <i>(David Kunz, Olena Timrova)</i>	15 Min
CAP-native Task Queues <i>(Sebastian Van Syckel, David Kunz)</i>	15 Min
Topics raised by Community & Q&A <i>(all)</i>	30 Min

Intro



Slides will be made available after the meeting here:

<https://community.sap.com/t5/technology-blog-posts-by-sap/sap-cloud-application-programming-model-cap-customer-roundtable-june-2025/ba-p/14103224>

+ on our **events page**: <https://cap.cloud.sap/docs/resources/events>

New REQs? Check-out the Customer Influence Tool



SAP
Continuous Influence

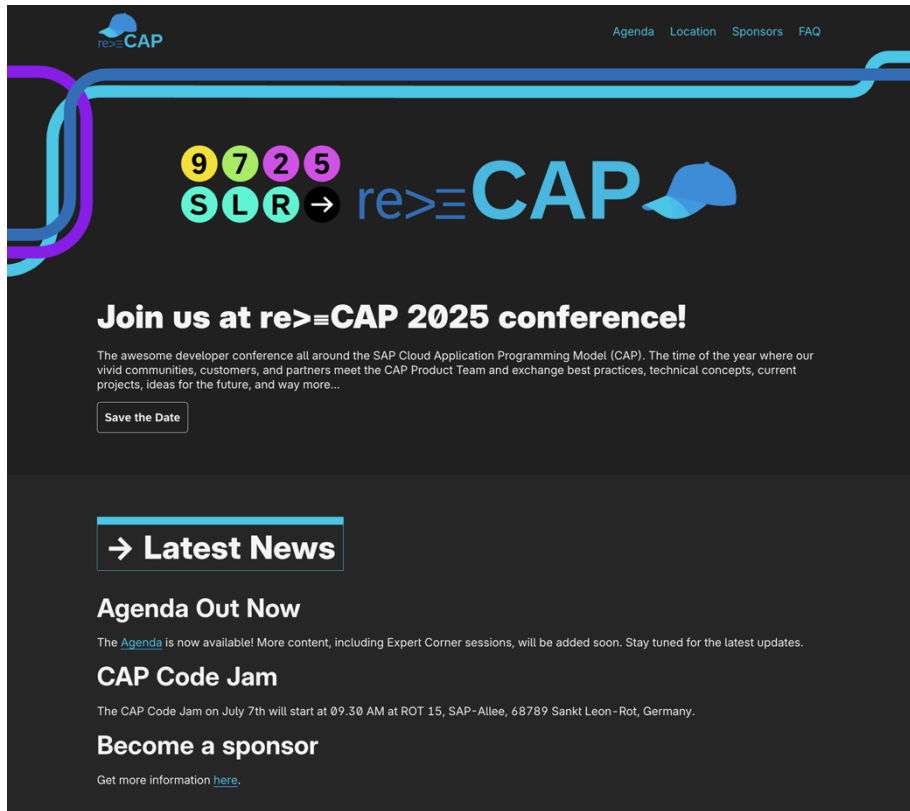
SAP Cloud Application
Programming Model

Collect continuously open
Status: Continuously running

💡 37 👁 1028 👤 297770 📄 67

A banner image showing two red and white striped hot air balloons floating over a misty, mountainous landscape. The mountains are covered in green vegetation and partially obscured by white clouds. The sky is a clear, pale blue. The entire image is reflected in a white surface below it.

<https://influence.sap.com/sap/ino/#/campaign/2280>

The banner has a dark background with colorful, stylized circuit lines in blue, purple, and yellow. It includes the reCAP logo, a date graphic "9 7 2 5 S L R →", and promotional text for the 2025 conference.

re>CAP

Agenda Location Sponsors FAQ

9 7 2 5
S L R → re>CAP

Join us at re>CAP 2025 conference!

The awesome developer conference all around the SAP Cloud Application Programming Model (CAP). The time of the year where our vivid communities, customers, and partners meet the CAP Product Team and exchange best practices, technical concepts, current projects, ideas for the future, and way more...

[Save the Date](#)

→ Latest News

Agenda Out Now

The [Agenda](#) is now available! More content, including Expert Corner sessions, will be added soon. Stay tuned for the latest updates.

CAP Code Jam

The CAP Code Jam on July 7th will start at 09.30 AM at ROT 15, SAP-Allee, 68789 Sankt Leon-Rot, Germany.

Become a sponsor

Get more information [here](#).

<https://recap-conf.dev/>

The banner features a dark background with vibrant, multi-colored circuit lines. It displays the "CODE CONNECT" logo, icons for UI5, SAP, and a microchip, and details for the July 8-10, 2025 event in St. Leon-Rot, Germany.

CODE CONNECT

UI5

July 8-10, 2025
St. Leon-Rot, Germany

[Sponsoring](#) [Location](#) [FAQ](#)

Ride the rails to UI5con, reCAP, and HANA Tech Con – three days, three conferences, one streamlined journey.

Join us for the second annual Code Connect, where we're bringing together the hottest tech events in one convenient location. Be ready to connect, collaborate, and code away with a bustling community of like-minded developers. Jump on the Code Connect train and elevate your conference experience!

Save the dates and check-out the conference pages for more details.

[Save the date](#)

<https://code-connect.dev/>



Agenda

is online!



Talks

2 Tracks, 24 Talks



Workshops

4 workshops



Expert Tables

8 one-hour slots



Info & Demo Booths

4-5 Booths

→ Agenda

Filters: All | Yellow Room | Blue Room | Orange Room | Talks | Workshops | Beginner | Intermediate | Advanced

- 9:00 - 9:40** **Keynote** Intermediate
Daniel Hutzet (SAP SE - CAP Team)
One highlight every year - the keynote by the CAP CPO Daniel Hutzet (and maybe additional experts).
- 9:00 - 11:00** **Breakfast (Starting 08.00 AM)**
Breakfast is served in the canteen from 8.00 AM
- 10:00 - 10:20** **Messaging With Apache Kafka And Cds - Kafka** Beginner
Mike Zschka (Independent SAP Cloud Solution Architect, Developer and Consultant)
In this session, I will introduce Apache Kafka and how it can be leveraged for messaging within the SAP Cloud Application Programming Model using cds-kafka, an open-source CAP plugin. Since many CAP developers may not have worked with Kafka before, I'll start with a brief introduction to its core concepts and explain why it's a powerful choice for event-driven architectures, widely adopted across industries beyond the SAP ecosystem. Then, through a live-coding demonstration, I'll showcase how cds-kafka simplifies Kafka integration in CAP applications, covering event publishing, topic subscriptions, CloudEvents support, and key Kafka-specific enhancements to CAP's messaging service.
This session is ideal for CAP developers looking to explore event-driven messaging using a widely adopted technology beyond traditional SAP offerings like SAP Event Mesh.
- 10:00 - 11:30** **Stay Cool, Stay Local** Intermediate
DJ Adams (SAP SE), Daniel Schlachter (SAP SE - CAP Team)
CAP has myriad features to help developers develop. And that means local first, in a tight feedback loop. In this session you'll learn about those features and tools at your disposal as a CAP developer (predominantly Node.js) and get the chance to try some of them out yourself.

<https://recap-conf.dev/program.html>



Agenda

	Audimax - Main Track	Side Track (W1/W2)	Workshops (W3)	Expert Corner 1	Expert Corner 2	Expert Corner 3	Canteen
9:00	Keynote Daniel Hutzel 9:00 - 9:40						Breakfast (starting 08.00 AM)
10:00	CAP Tools – What's New and Hot Christian Georgi 10:00 - 10:40	Messaging with Apache Kafka and cds-kafka 10:00 - 10:20 Deep dive into @cap-js/databases 10:30 - 10:50	Stay cool, stay local DJ Adams, Daniel Schlachter	Node.js Sebastian van Syckel, David Kunz, Johannes Vogel 10:00 - 11:00	Java Adrian Görler, Marc Becker, Matthias Braun 10:00 - 11:00	Demo and Info Booths Johannes Bechberger, Mahati Shankar, Laura Schmitz, Rene Jeglinsky, Robin de Silva Jayasinghe	9:00 - 11:00
11:00	Optimizing CAP Performance with Data Replication 11:00 - 11:20 Use of Plugins to structure business model modules 11:20 - 11:50	Towards ultimate resilience with CAP-native task queues Thomas Bork, Dietrich Mostowoj, David Kunz 11:00 - 11:40	Running Asynchronous Tasks using CAP Outbox and Notification Plugins Sachin Srmbickal, Bharadwaj Vanguri, David Kunz	Performance + Monitoring Oliver Klemenz, Maximilian Grünfelder, David Lam, Bob den Os, Tobias Stolzenberger 12:00 - 13:00	Tooling + Development Model Christian Georgi, Daniel Schlachter, Johannes Vogt, Timon Gäbelein 12:00 - 13:00		
12:00	In-App Code Extensibility with the CDS-Oyster Sandbox Nikica Josipovic, Vitaly Kozyura 12:00 - 12:40						Lunch
13:00	Server-Side UI5 Pre-Rendering with CAP 13:30 - 13:50	CAP applications and Data Products in SAP Business Data Cloud Steffen Weinstock 13:10 - 13:50	Build your own Custom Business Logic using the CDS-Oyster Code Sandbox Nikica Josipovic, Vitaly Kozyura		Data Integration + Data Federation Steffen Weinstock, Simon Oswald, Marc Becker 14:00 - 15:00		12:00 - 14:00
14:00	CAP Best vs Bad Practices Daniel Hutzel 14:00 - 14:20 Gain a superpower by learning how to harness the CDS REPL 14:20 - 15:00	Extending SAP Sales and Service Cloud V2 using CAP 14:20 - 15:00 Mastering Business Code Extensibility with CAP plugins 15:00 - 15:40					
15:00	Best practices on how to observe your CAP application running on BTP Thorsten Sandfuchs, Renbaire Jacob Christian 15:00 - 15:40	Flow Management in CAP Projects 15:00 - 15:20 A practical guide to multi-tenant SaaS solutions with CAP 15:20 - 15:50		Best Practices Daniel Hutzel, Matthias Braun 15:00 - 16:00			Afternoon Snacks
16:00	cds bind - 2 sap-cap-hybrid-testing-bas-vscode 16:00 - 16:20 Multi-Region Deployment Strategies for CAP 16:30 - 16:50	TreeTables Support in CAP Evgeny Andreev, Adrian Götz 16:00 - 16:20 Enhance CAP Apps with Central Authorization Policies 16:20 - 16:50	Develop and Deploy CAP microservices with shared database Daniel Schlachter, Johannes Vogt		Multi Tenancy + Extensibility Vitaly Kozyura, Eckart Liemke, Nikica Josipovic 16:00 - 17:00		15:00 - 16:30
17:00	Validations and Dynamic Field Control Steffen Weinstock, Marc Becker, Patrice Bender 17:00 - 17:40 Closing 17:50 - 18:00	CAPTivator Timon Gäbelein, Vinod Chandrasekaran 17:00 - 17:20 An opinionated Programming Model using CAP 17:30 - 17:50		Security: Authorization... Matthias Braun, Andre Meyering			
18:00							Afterparty
19:00							

subject to change...



⬇ Last Call for Sponsors!

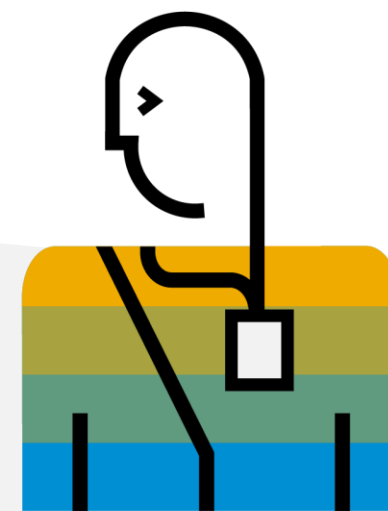
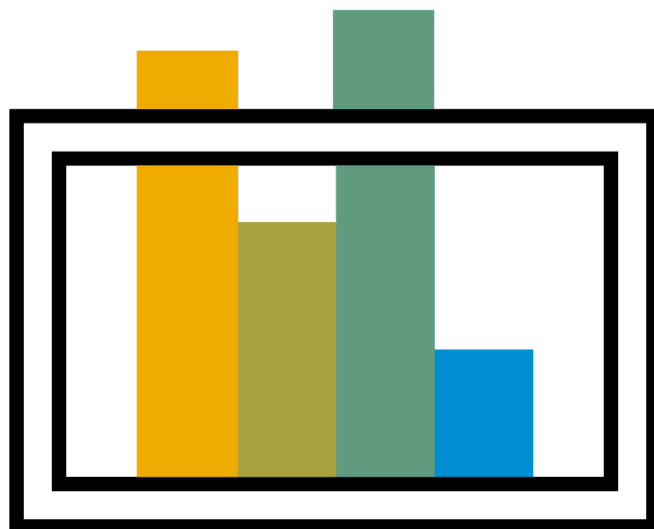
Make your brand part of the experience. Elevate your brand at re>CAP 2025. Become a sponsor before June 02!



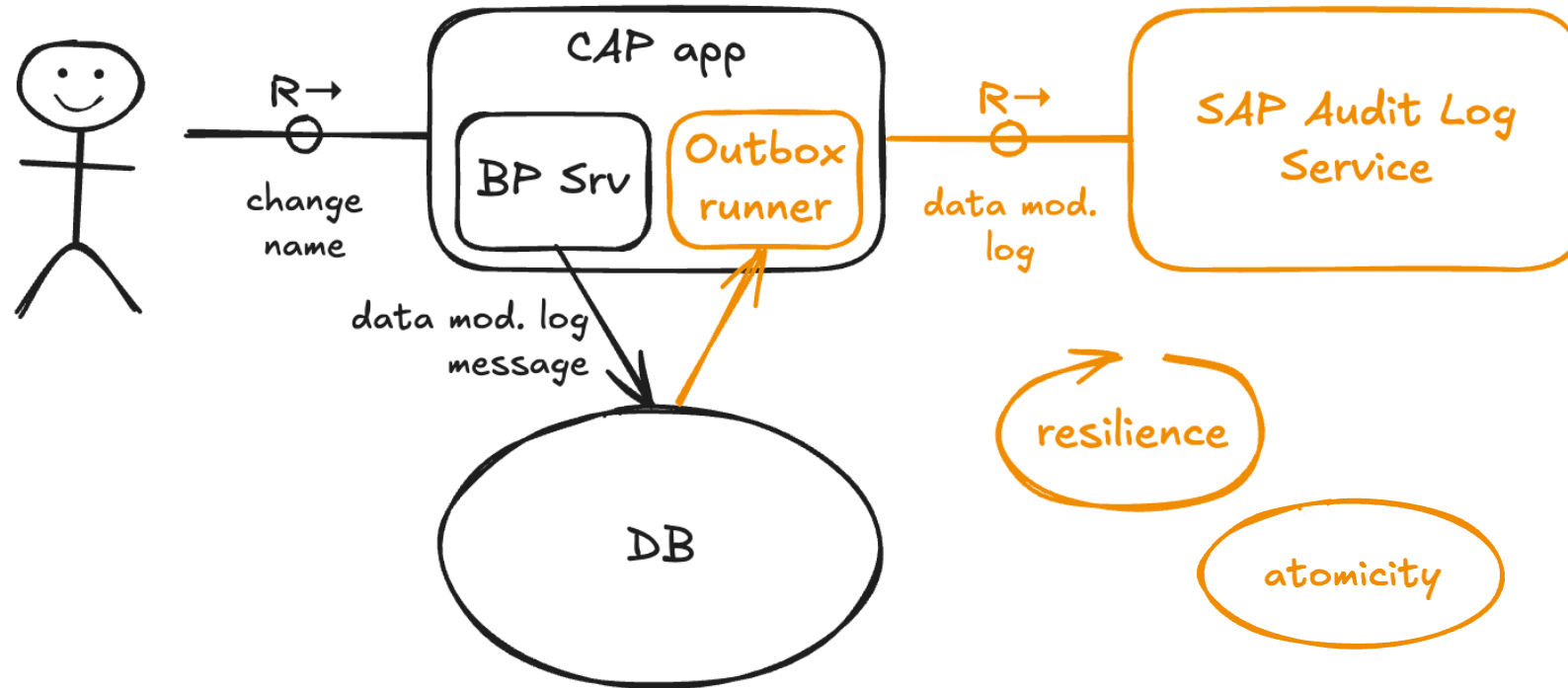


Presentation

CAP-native Task Queues (*Sebastian Van Syckel, David Kunz*)



A brief history of *outboxing*



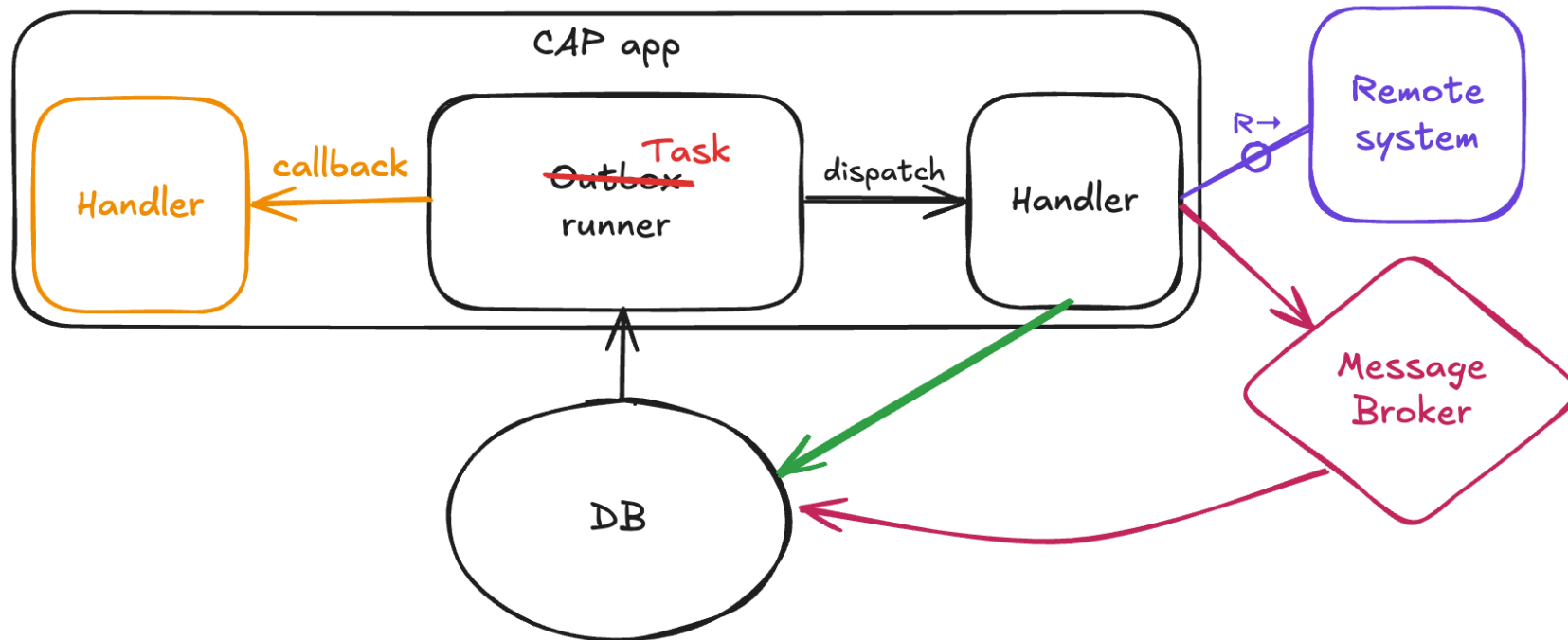
Audit logging as prime example for any *asyncable* remote API.

Generalizing the *outbox pattern* to *task queues*

inspired by [@cap-js-community/event-queue](https://twitter.com/cap-js-community/event-queue) (presented @ reCAP 2024)



- *Outbox* → for outbound messages/ calls to remote services
- *Inbox* → for asynchronously handling inbound messages/ calls
- *Background tasks* → e.g., scheduled periodically (cron)
- *Callbacks* → implement SAGA patterns





Demo → David

Disclaimer: Some of the demoed features are still experimental. See [Task Queues @ capire](#).



Thank you.

Contact information:

Sebastian Van Syckel
sebastian.van.syckel@sap.com

Task Queues: the *Anybox* for async workloads

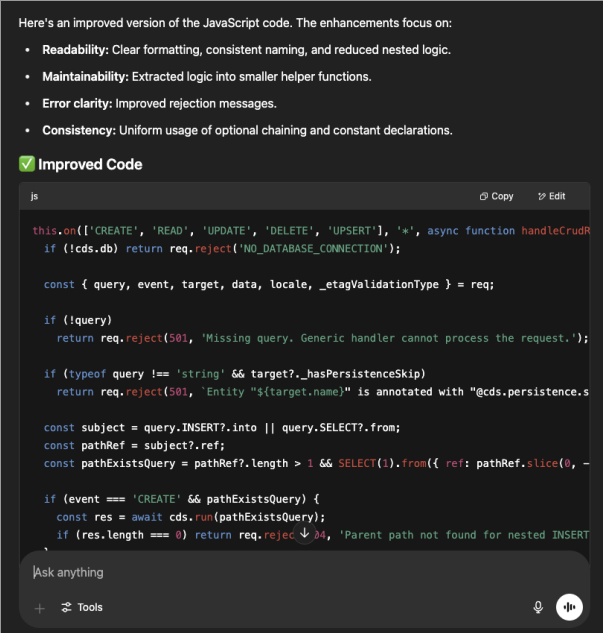
- Atomicity with triggering tx
- Resilience through retries
- Follow-ups/ compensations via callbacks (additional to dead letter queue)

Features to grow over time → Stay tuned!

AI Usage for CAP Development



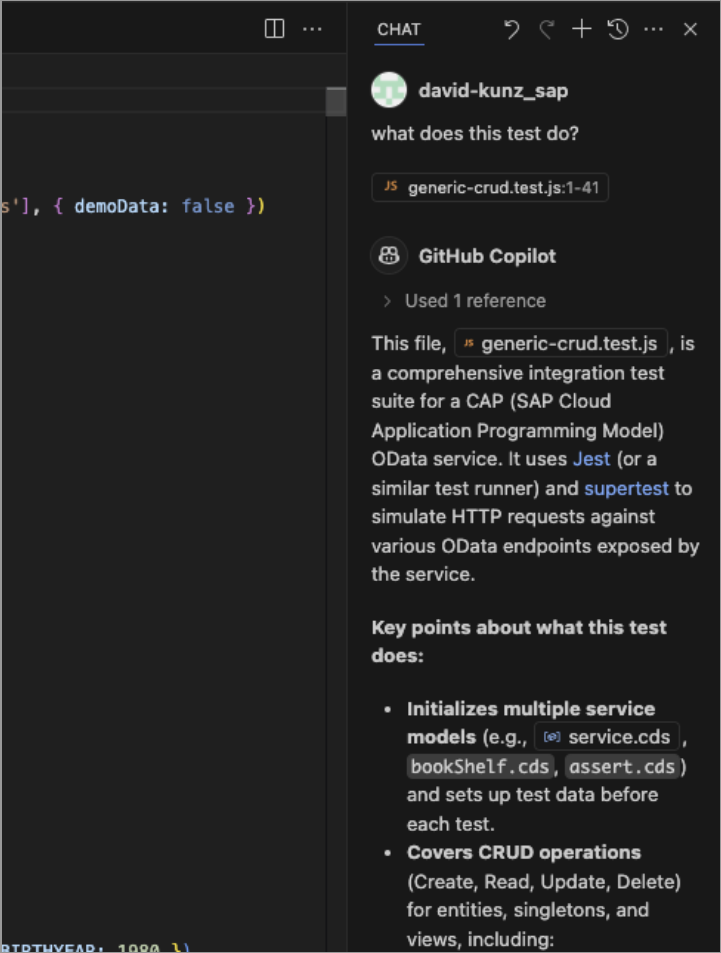
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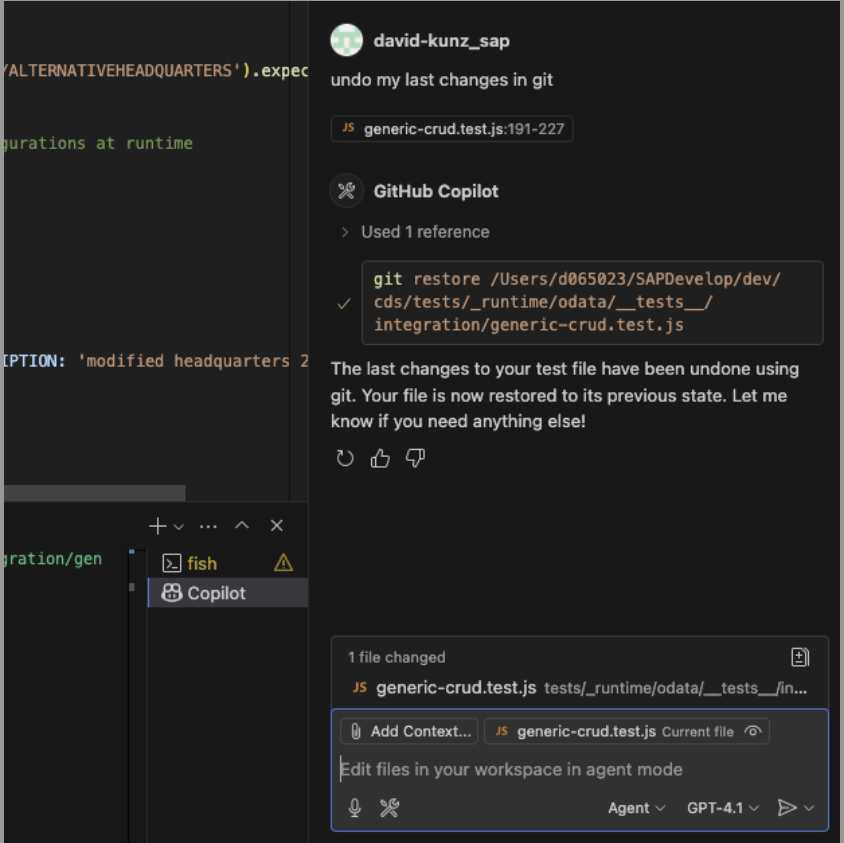
Code Completions



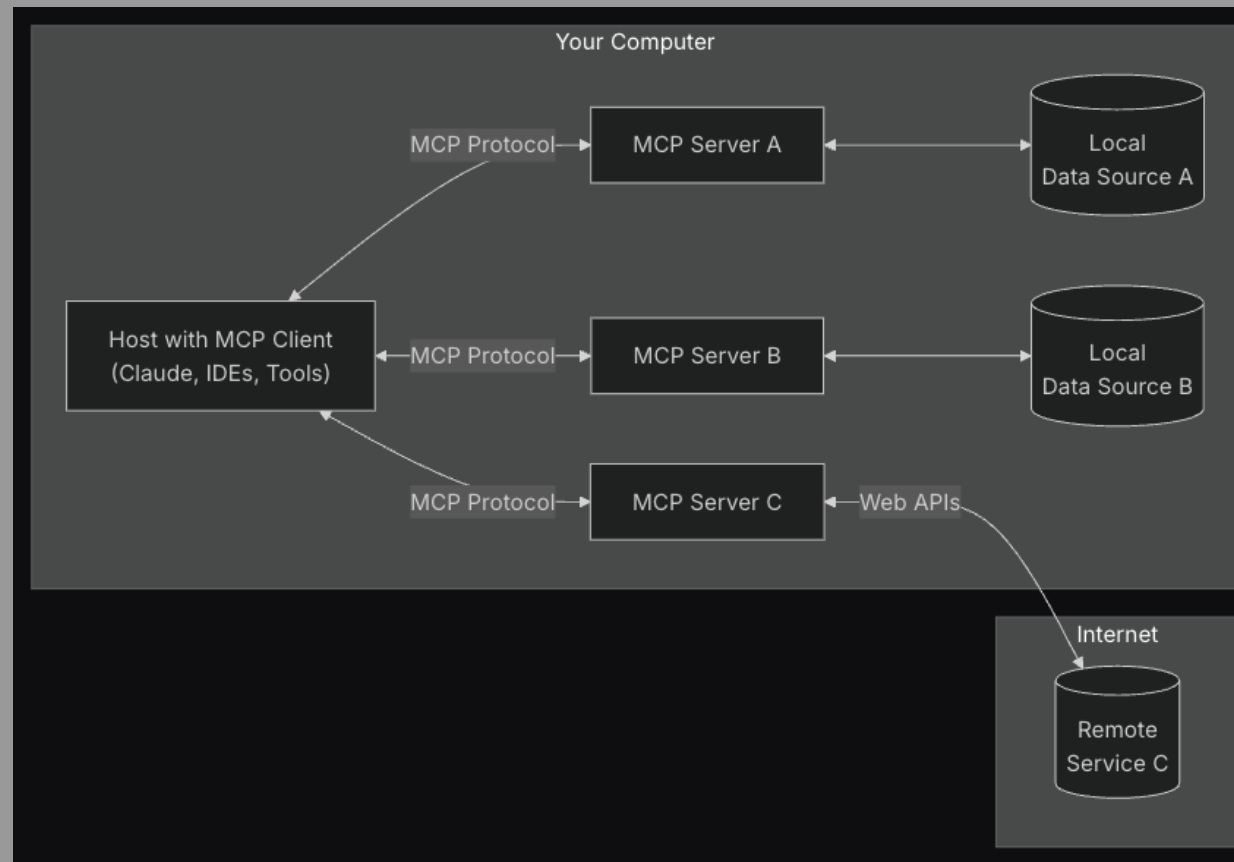
Chat (IDE)



Agents



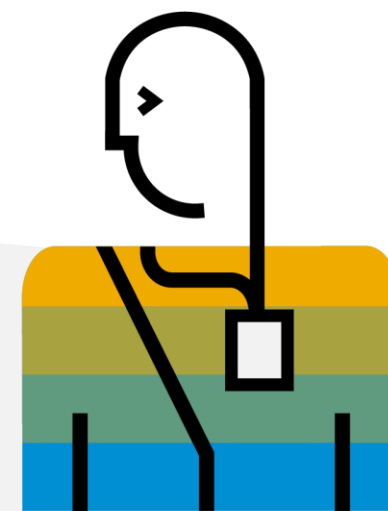
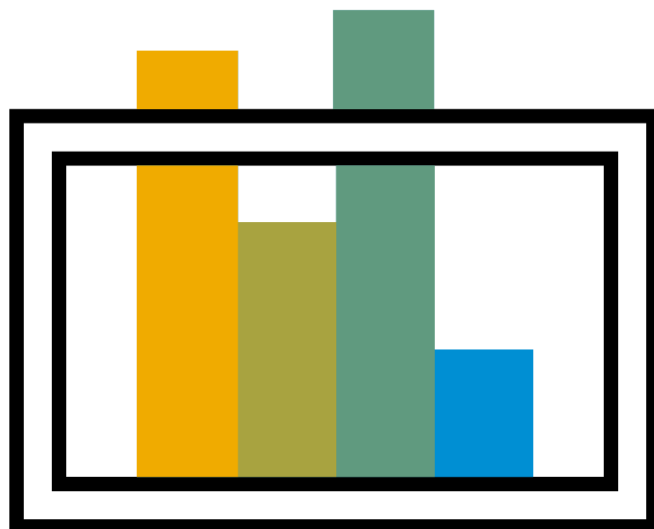
Model Context Protocol (MCP)





Q&A

Topics raised by Community & Q&A – all



Questions and Topics raised by the Community



Q: News about Delta handling or DB streams? *(Andre Kuller)*

Q: Handling OData V2 from SAP ByDesign in a CAP application and generating a Fiori List Report Page with Create action enabled. *(Kostadin Terziev)*



Q&A



Thank you.

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