

The background of the image is a deep purple with a pattern of glowing, intersecting diagonal lines in shades of cyan and magenta, creating a diamond-like grid effect. Centered in the middle of the image is the text "AVEVAWORLD" in a bold, white, sans-serif font. The letter "E" is stylized with three horizontal bars.

AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

CONNECT

N

WEDNESDAY, MAY 20, 2026

12:00 -12:20

Citizen Industrial Data Developers: Build Smarter, Faster with Copilot & Libraries

CONNECT Developers

Presented by: Derek Endres

Agenda

Intro

Goal of this talk

CONNECT overview

Enabling the modern developer

Presenter

Sr Manager Product Readiness

AVEVA

Derek Endres

Derek.endres@aveva.com



Show how easy modern CONNECT is
for everyone to programmatically
interact with



Access, visualize, and model trusted industrial information
to predict and inform more efficient outcomes

CONNECT

Industrial Intelligence Platform



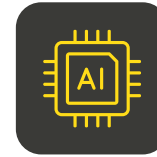
Connectivity



Data management
& visualization



Collaboration



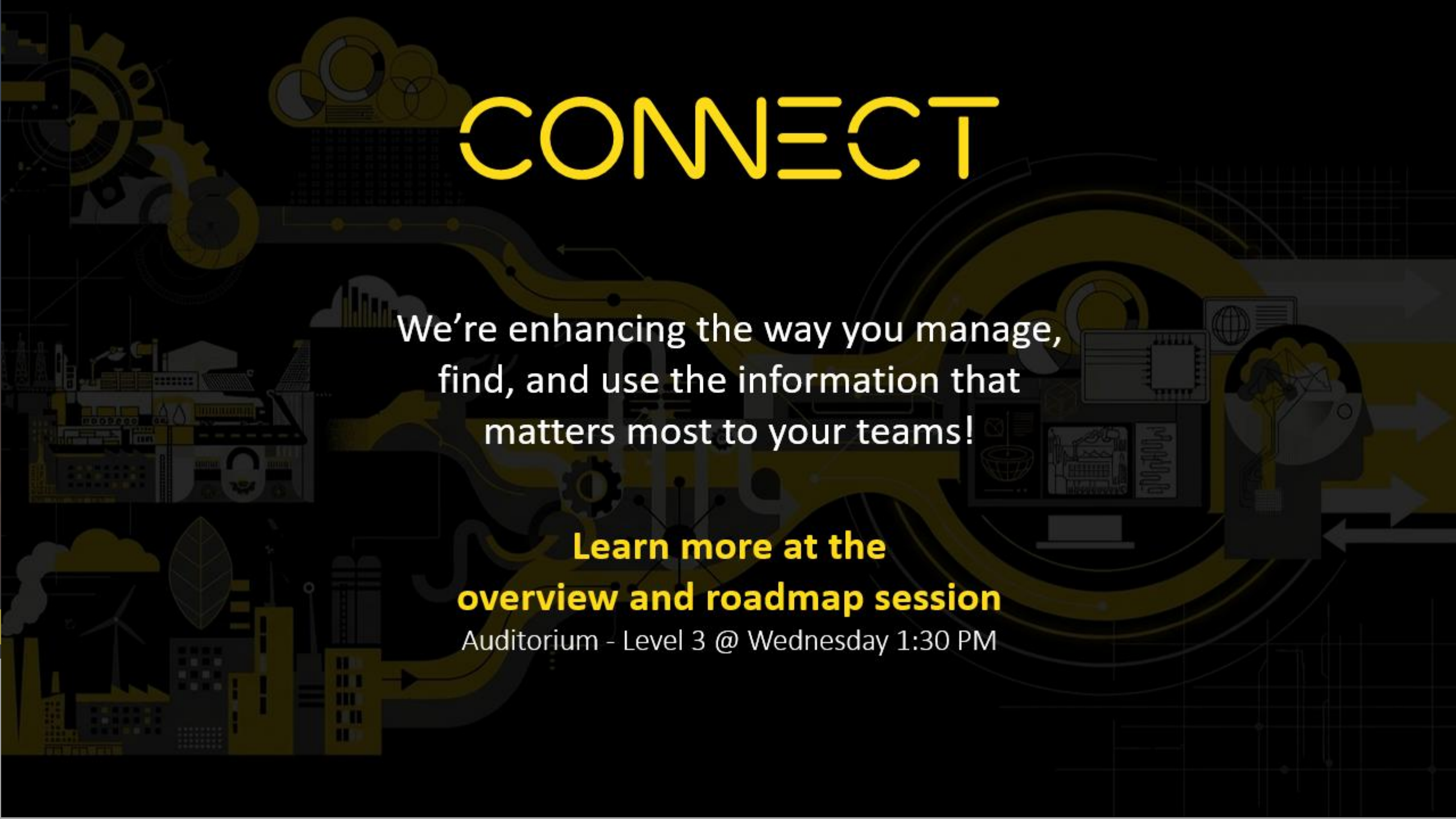
AI & analytics



Applications



Created specifically for industry, CONNECT allows you to aggregate, contextualize, and share information securely and easily across multiple sites and data types in a collaborative and frictionless environment.



CONNECT

We're enhancing the way you manage,
find, and use the information that
matters most to your teams!

**Learn more at the
overview and roadmap session**

Auditorium - Level 3 @ Wednesday 1:30 PM

CONNECT Developer Tools



CONNECT

AVEVA provides publicly available **documentation, samples, and toolkits** to help applications developers build against the CONNECT platform

CONNECT includes built-in tools for getting hands-on with service APIs

- **API Console** – GUI to inspect and execute REST API requests against CONNECT
- **GraphQL Console** – GUI to inspect and execute GraphQL requests against CONNECT
- **OMF Editor** – build and validate omf messages to send data to CONNECT



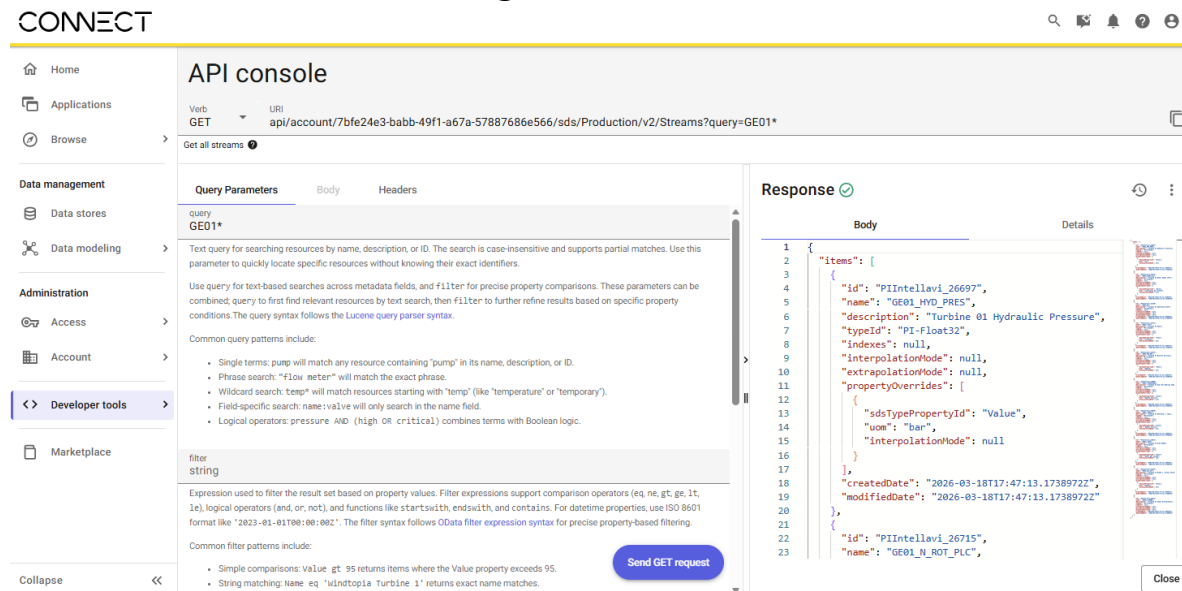
Developer
Documentation



Open API
Spec



AVEVA
Samples

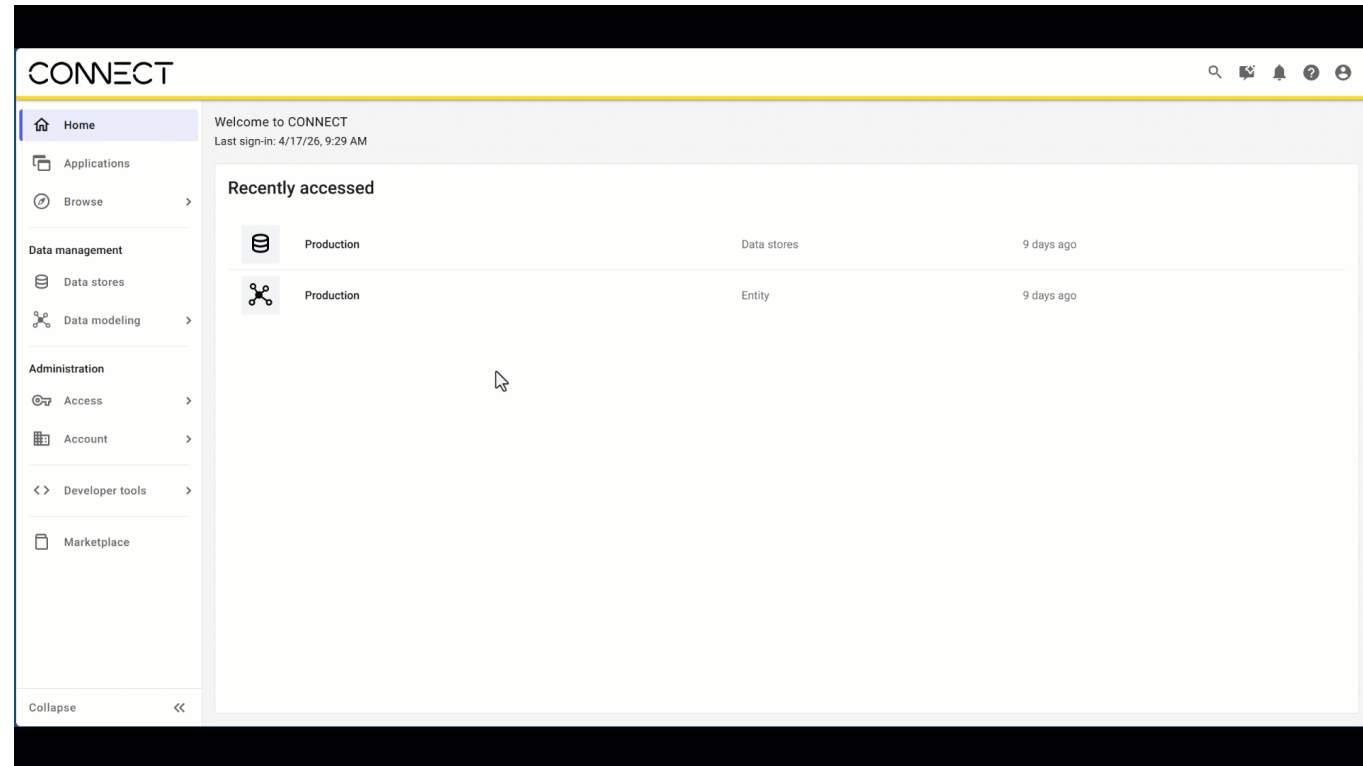


CONNECT

API Console

- Graphical interface for interacting with the CONNECT REST API
- This console **acts against your own real data** – remember when making changes!
- Supports basic auto-complete, request body templates, and more quality-of-life features

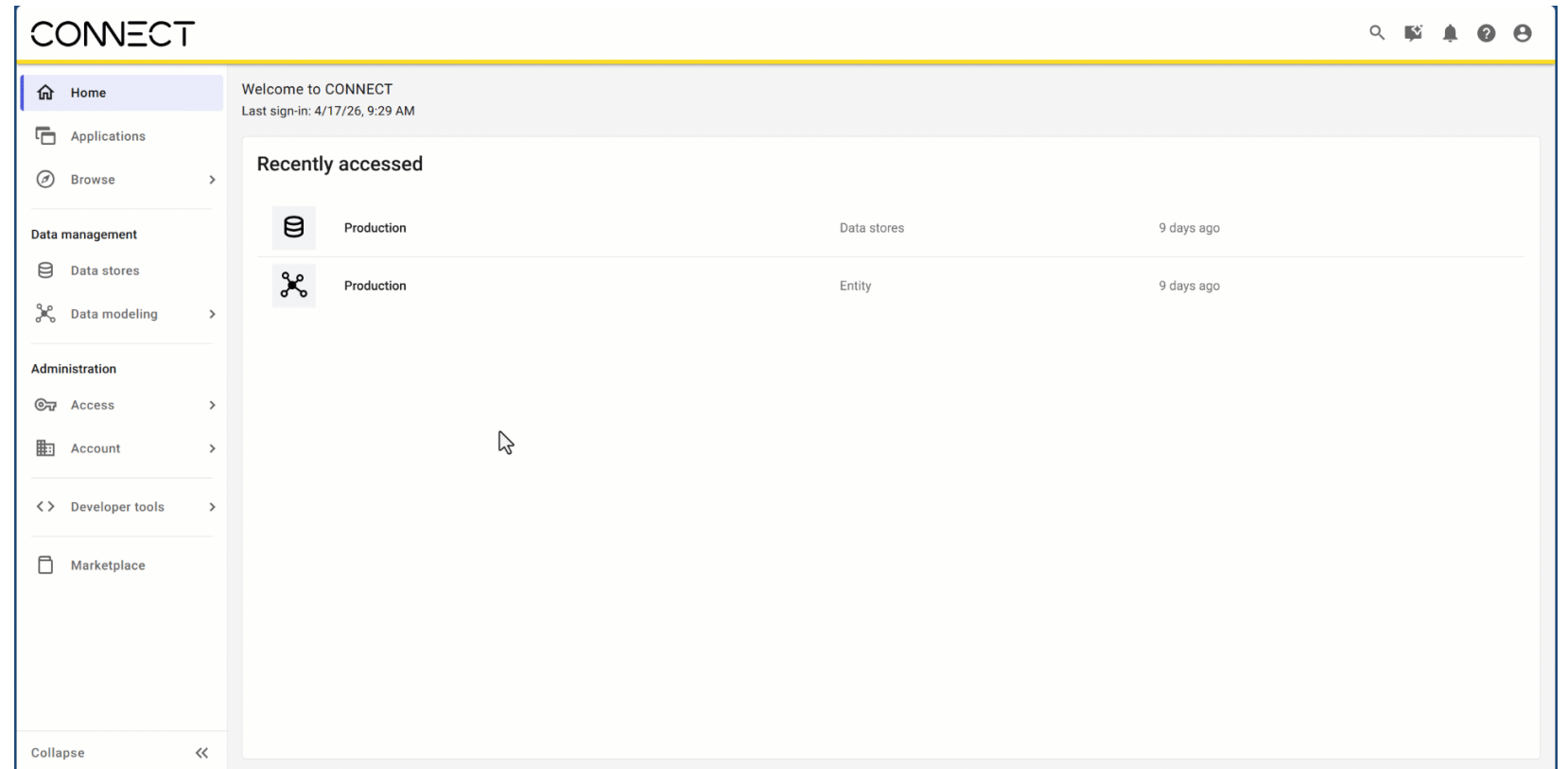
1. API route
2. Parameter config
3. Response window



GraphQL Console

- Graphical interface for constructing graphql queries for data in CONNECT
- Use the console to construct a query, then can be used in another external application

1. Add data to request or add filters
2. Query is constructed for you
3. Response window



OpenAPI specifications

- CONNECT exposes its functionality through a set of discrete API services
- APIs are fully described and available via OpenAPI definition
- OpenAPI is a standard, language-agnostic interface for both humans and computers to fully understand service capabilities

Access all CONNECT services' OpenAPI definitions here:

<https://platform.connect.aveva.com/api-docs>

1. Select a service
2. Download the spec for use in tools like **Kiota**
3. Add authentication and try requests from the swagger page
4. View available controllers and actions
5. View request/response object models

The screenshot shows the AVEVA CONNECT API documentation page. The URL in the browser is <https://platform.connect.aveva.com/api-docs/index.html?urls.primaryName=Catalog+-+v2>. The page features the AVEVA logo and a navigation bar. A dropdown menu labeled "Select a definition" is set to "Catalog - v2". The main content area is titled "Catalog" with a "v2" and "OAS 3.0" badge. Below the title, there is a description of the Catalog service and its purpose. A table of API endpoints is displayed, with columns for the HTTP method, the endpoint path, a brief description, and the response type. The endpoints listed are: GET /api/account/{accountId}/catalog/v2/services (Get catalog services), GET /api/account/{accountId}/catalog/v2/services/{id} (Get catalog service by ID), GET /api/account/{accountId}/catalog/v2/bundles (Get bundles), and GET /api/account/{accountId}/catalog/v2/bundles/{id} (Get bundle by ID). Below the table, there is a section for "Schemas" which includes "Application" and "BundleCollectionResponse".

1. Select a definition

2. /api-docs/catalog-api-accountserviceinstance/v2

3. Authorize

4. CatalogV2

5. Schemas

Method	Endpoint	Description	Response Type
GET	/api/account/{accountId}/catalog/v2/services	Get catalog services	GetAllAccountScopedServicesV2
GET	/api/account/{accountId}/catalog/v2/services/{id}	Get catalog service by ID	GetAccountScopedServiceByIdV2
GET	/api/account/{accountId}/catalog/v2/bundles	Get bundles	GetAllAccountScopedBundlesV2
GET	/api/account/{accountId}/catalog/v2/bundles/{id}	Get bundle by ID	GetAccountScopedBundleByIdV2

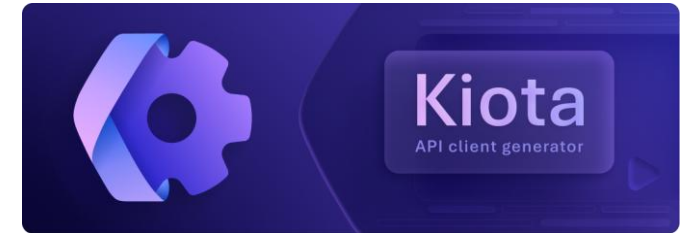
Application >

BundleCollectionResponse >

Generate SDK from OpenAPI specification

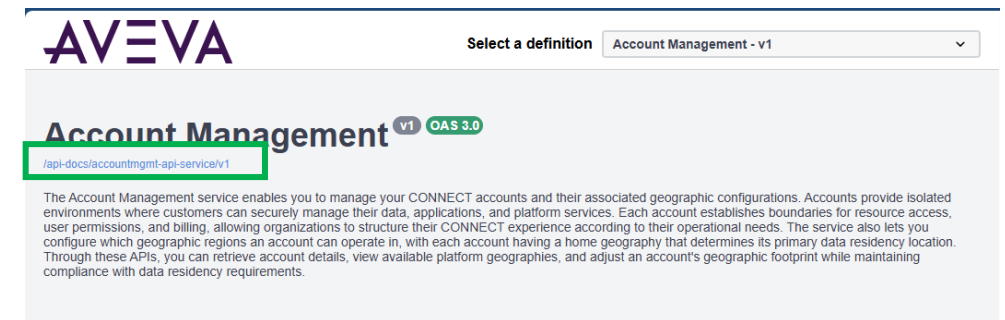
CONNECT Developer Experience

- Recommended approach using Microsoft Kiota
 - Official Microsoft tool for SDK generation
 - Strong support for .NET/C# and other applications – also supports **Python**, Go, TypeScript, and more!
 - Actively maintained



1. Install Kiota
2. Download the OpenAPI spec to convert into an SDK (AVEVA Connect Developer Portal)
3. Use Kiota to generate the SDK
4. Include generated library in your project and start developing

- Alternatives include OpenAPI Generator or Swagger Codegen



Use AI to generate SDKs and code

- Can point any code generating AI to the OPEN API JSON end point and it will understand how to interact with it
 - Note you must specify the token endpoint and token scope for authenticating properly as this is not defined in the CONNECT OpenAPI specification



DEMO Prompt

Please use the openapi spec located at <https://platform.connect.aveva.com/api-docs/sds-api-serviceinstance/v2> to generate a client library to interact with CONNECT. The file appsettings.json contains important connection information including the OAuth2.0 token endpoint and scope for the client credentials.

With the generated client please build a simple application called streamlit_app using Streamlit that will get all of the streams based off of an enterable query and display a table of all returned streams. Next add a dropdown to choose a stream and display the last value of that stream.

File Edit Selection View Go Run Terminal Help

demo1

EXPLORER

OPEN EDITORS

launch.json .vscode

DEMO1

.vscode

launch.json

appsettings.json

launch.json

```
1 {
2   "version": "0.2.0",
3   "configurations": [
4     {
5       "name": "Python:Streamlit App",
6       "type": "debugpy",
7       "request": "launch",
8       "module": "streamlit",
9       "args": [
10        "run",
11        "${workspaceFolder}/app.py",
12        "--server.port",
13        "2000"
14      ]
15    }
16  ]
17 }
```

CHAT

SESSIONS

Tip: Try the [Plan agent](#) to research and plan before implementing changes.

+ launch.json

Describe what to build

+ Agent Auto

Local Default Approvals

Add Configuration...

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF JSON with Comments kiota 1.30.0

0 0 Update is ready, click to restart.

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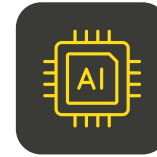
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Other Sessions

Entities: Giving Your Data Meaning in CONNECT

See how CONNECT Entities can help organize and contextualize your industrial data for better visibility and understanding.

Day 2, May 20 @ 12:30 pm
CONNECT Lounge

CONNECT Flows Data Egress: Send Data Anywhere, Anytime

Explore strategies for exporting data from CONNECT to external systems using Crosser, enabling flexible data access.

Day 2, May 20 @ 1:30 pm
CONNECT Lounge

CONNECT Flows Data Ingress: Bringing Data In, Fast and Easy

Learn approaches for efficiently ingesting industrial data from diverse sources into CONNECT using Crosser technology.

Day 2, May 20 @ 2:00 pm
CONNECT Lounge



Join our Early Access Waitlist

Sign up and be the first to see
and experience some of the new
capabilities coming this year.

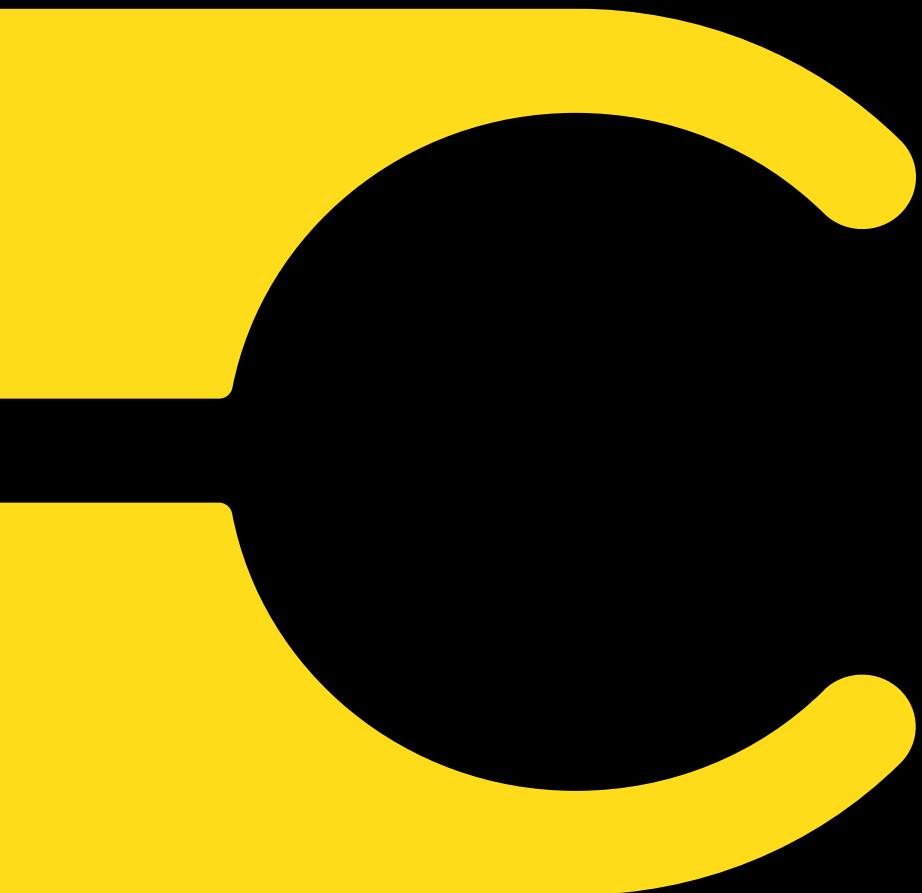
aveva.com/getCONNECT



CONNECT

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The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.



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ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

Learn more at www.aveva.com