



MARKET4.0

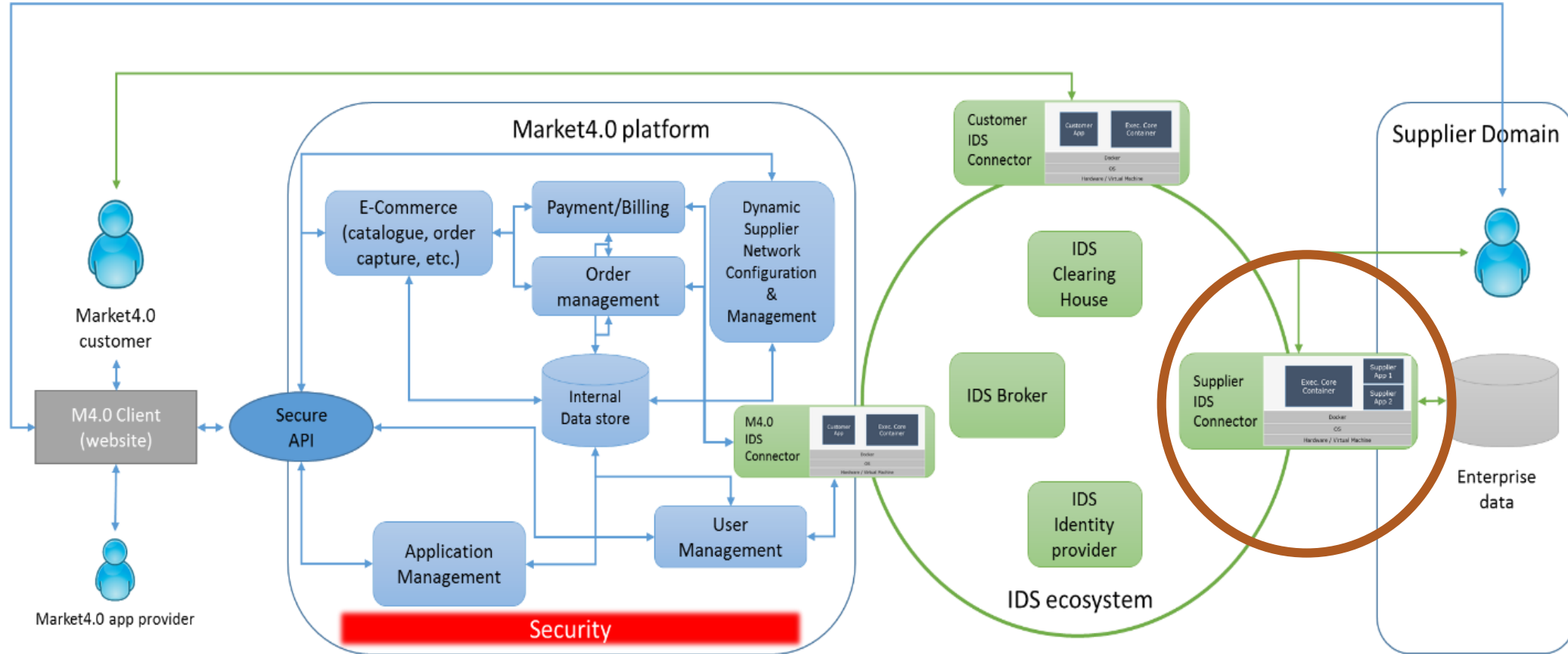
CONNECT & PRODUCE

OpenAPI Data Open Maarten Kollenstart





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 822064

Positioning the OpenAPI Data App



Why a data app?

The IDS components are **data agnostic**, i.e. they are not aware of the data content, they are mainly concerned about the data transfer.

- Data Apps provide domain-specific integrations **on top of the IDS Connector**.
 - A Data App is the bridge between back-end systems and IDS.
 - An IDS Connector can have one or multiple Data Apps.
 - Data Apps can be standardized and certified in order to ensure interoperability.
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What is the Data App composed of?

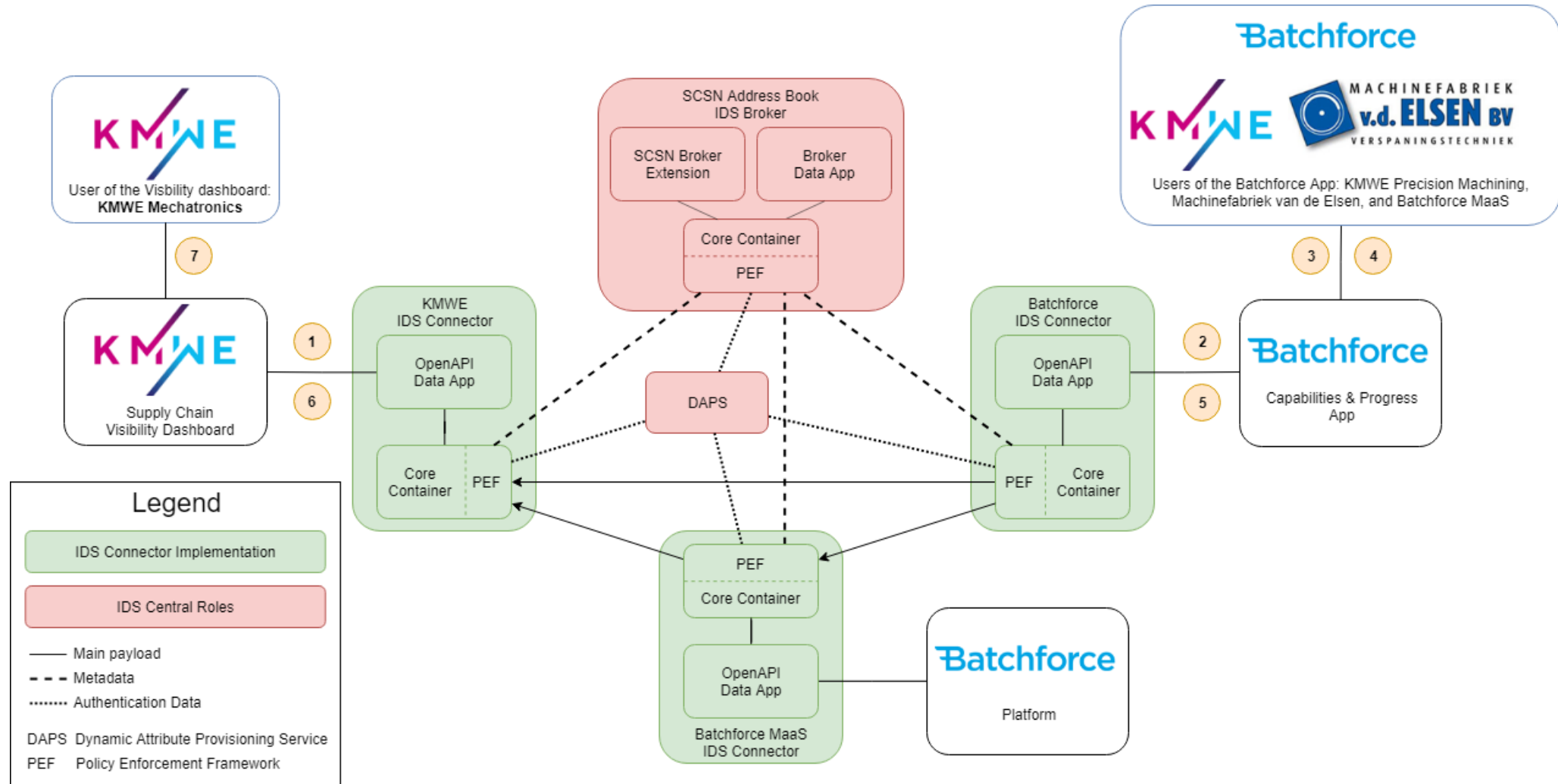


The MARKET4.0 Data App is twofold:

- A **generic data app** which is able to interpret any **OpenAPI Specification**.
- A Smart Connected Supplier network (**SCSN**) **Data App** which is used for exchanging purchase-to-pay information.



Relation IDS Connection and Data App



Smart Connected Supplier Ne

Create Order

Create a new order by sending it to an organization's service provider.

HEADER PARAMETERS

}	Forward-ID	string <URI>
	required	Example: urn:scsn:3874920749034 The unique reference to the receiver party.
<hr/>		
}	Forward-Sender	string <URI>
	required	Example: urn:scsn:2074903438749 The unique reference to the sender party.

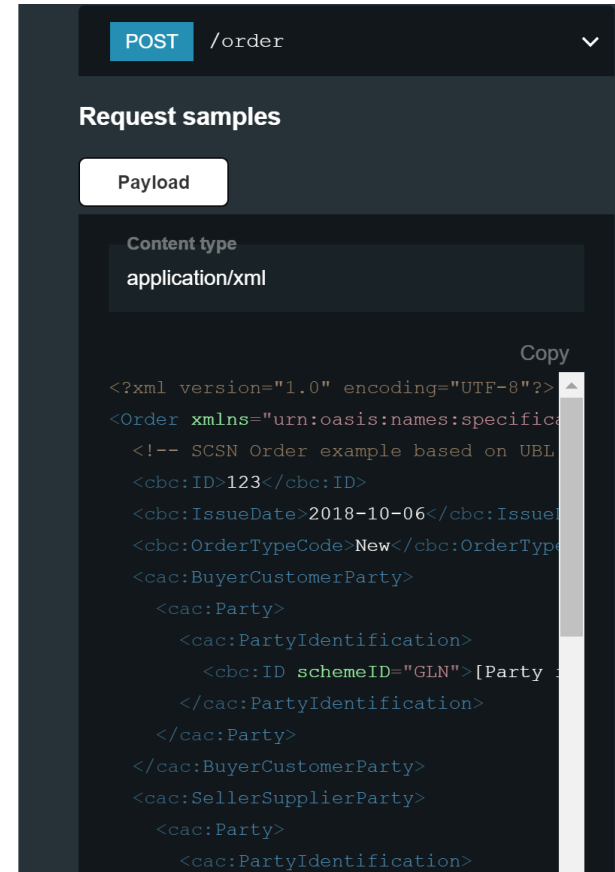
REQUEST BODY SCHEMA: application/xml

The Order message as defined in SCSN.

Responses

> 201

The order is successfully received and processed. The response contains an Order Response message (i.e. synchronously communication).



SCSN OpenAPI: <https://api-specs.ids.smart-connected.nl/scsn/0.4.6>

How to start?

1. Check if your solution would fit the Smart Connected Supplier Network Standard. If so, use the provided configured SCSN Data App.
2. If not, define an OpenAPI Specification of your needs and configure the generic OpenAPI Data App
3. Alternatively, a direct integration with the IDS Connector can be made.

How to deploy the OpenAPI Data App?

Requirements:

- Docker or Kubernetes cluster
- An IDS connector
- OpenAPI implementation

Instructions and how to start*:

<https://gitlab.com/market4.0/openapi-data-app>

* send a mail to maarten.kollenstart@tno.nl or mike.deroode@tno.nl for access

THANK YOU



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 779899