EDI on IBM i

INTRODUCING MENTEN GMBH

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BJÖRN REIMANN
Sales Manager

- Since 2011 with menten GmbH and responsible for European EDI Market

MARCEL MENTEN
Project Manager

- IT Consultant with focus on EDI projects in Logistics and Trade & IT proccess management

INTRODUCING MENTEN GMBH

Software & Service for IBM Power Systems users (IBM i)
IBM Business Partner & Independent Software Vendor (ISV)

2 locations
menten software LLC (Florida, USA)
menten GmbH (near Cologne, Germany)

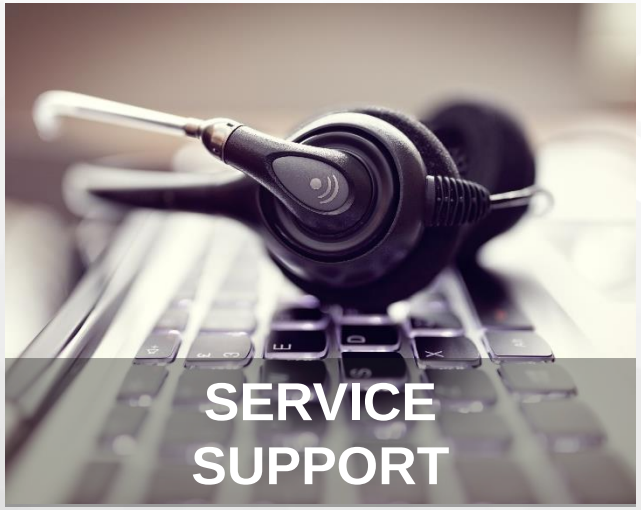
EDI specialist
since **1989**

over international
340 customers

over **760 installations**

in over **26 countries**
around the globe

OUR EXPERTISE AT MENTEN GMBH



OUR CUSTOMERS

- Medium-sized companies from all areas
- International customers in Europe, USA, Japan, South America

SUCCESS STORIES

OUR REFERENCES

EDI ONBOARDING WITH i-effect®

EXAMPLE: CREATE AN EDI INVOICE VIA AS2 ON YOUR ISERIES

REQUIREMENTS PHASE

1. REQUEST
2. BASIC ANALYSIS (SOURCES)
3. REQUIREMENTS (TARGETS)

IMPLEMENTATION PHASE

4. DATA CONVERSION (EDIFACT FILE)
5. COMMUNICATION (AS2)
6. AUTOMATION (PRODUCTION)
7. TRACKING

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WHY EDI?

REASONS FOR INTRODUCING EDI

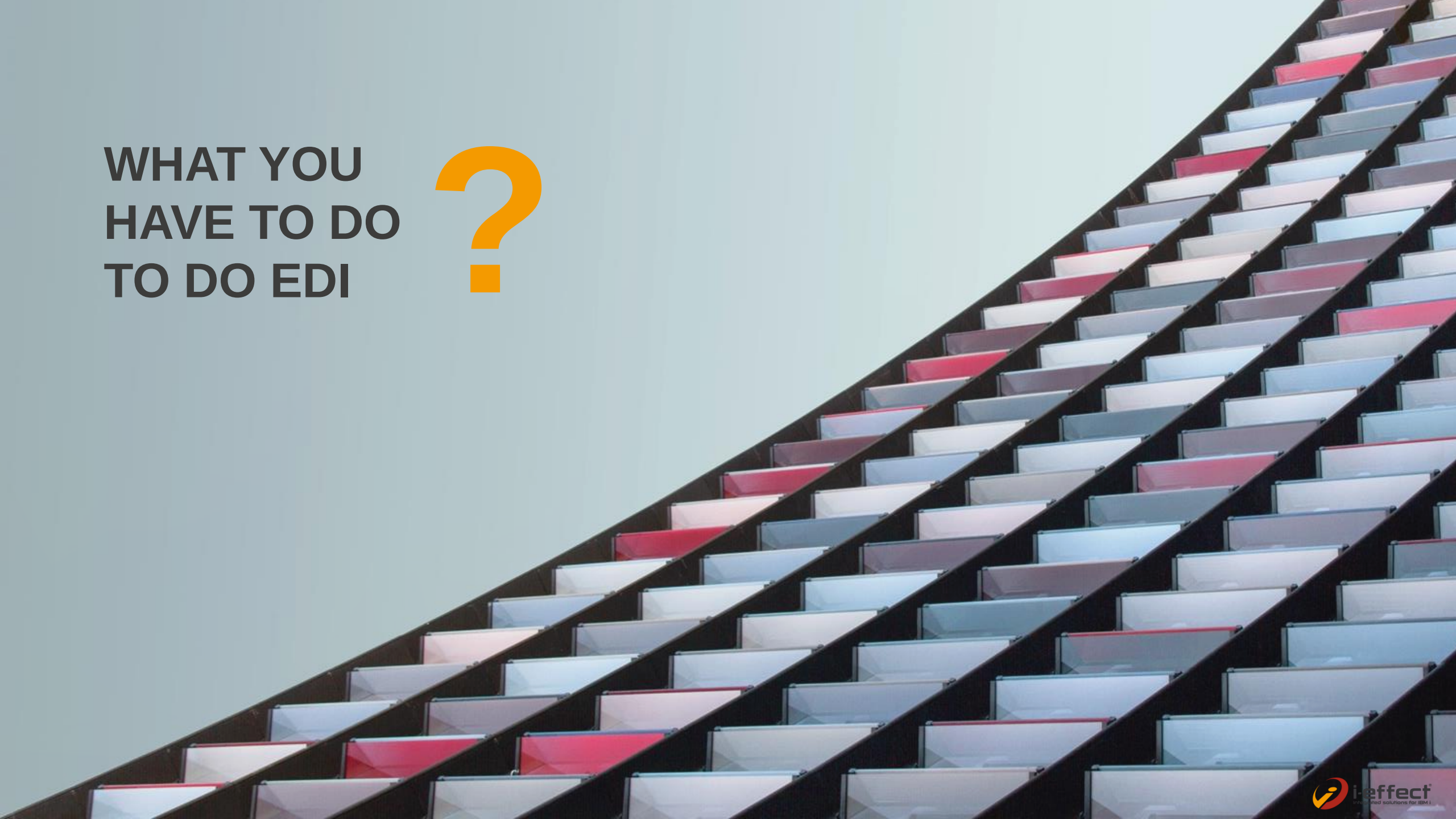
EXTERNAL INQUIRIES

EXTERNAL IMPACT

PROCESS OPTIMIZATION

COST REDUCTION

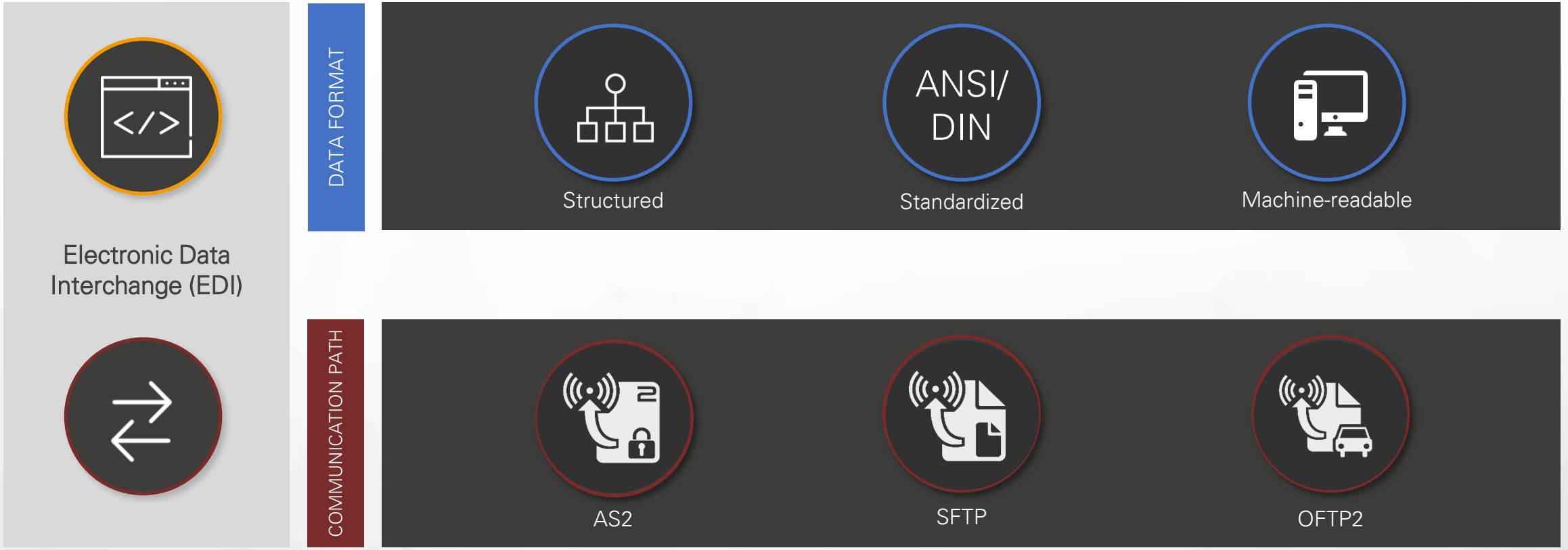
WHAT YOU HAVE TO DO TO DO EDI ?



WHAT YOU HAVE TO DO TO DO EDI !

EDI: WHAT IS THIS?

GENERAL INFORMATION



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EDI AND THE FIELDS OF APPLICATION

ELECTRONIC DATA EXCHANGE OF STANDARDIZED MESSAGES

- Transit time
- Delays due to manual or semi-automatic processing
- Media disruption
- ...

- Binding resources and competencies
- Expenses for personnel
- …

- Possible loss of payment discount
- Postage, printing costs
- …

BASIC ANALYSIS (SOURCES)

ELECTRONIC DATA EXCHANGE OF STANDARDIZED MESSAGES

? Where is my **data**?

? Do I already have **interfaces**?

? Which **communication** possibilites do I have?

! **Sources** are **identified** and **communication** with partner is **possible**:

➡ Example: **DB2 and AS2**

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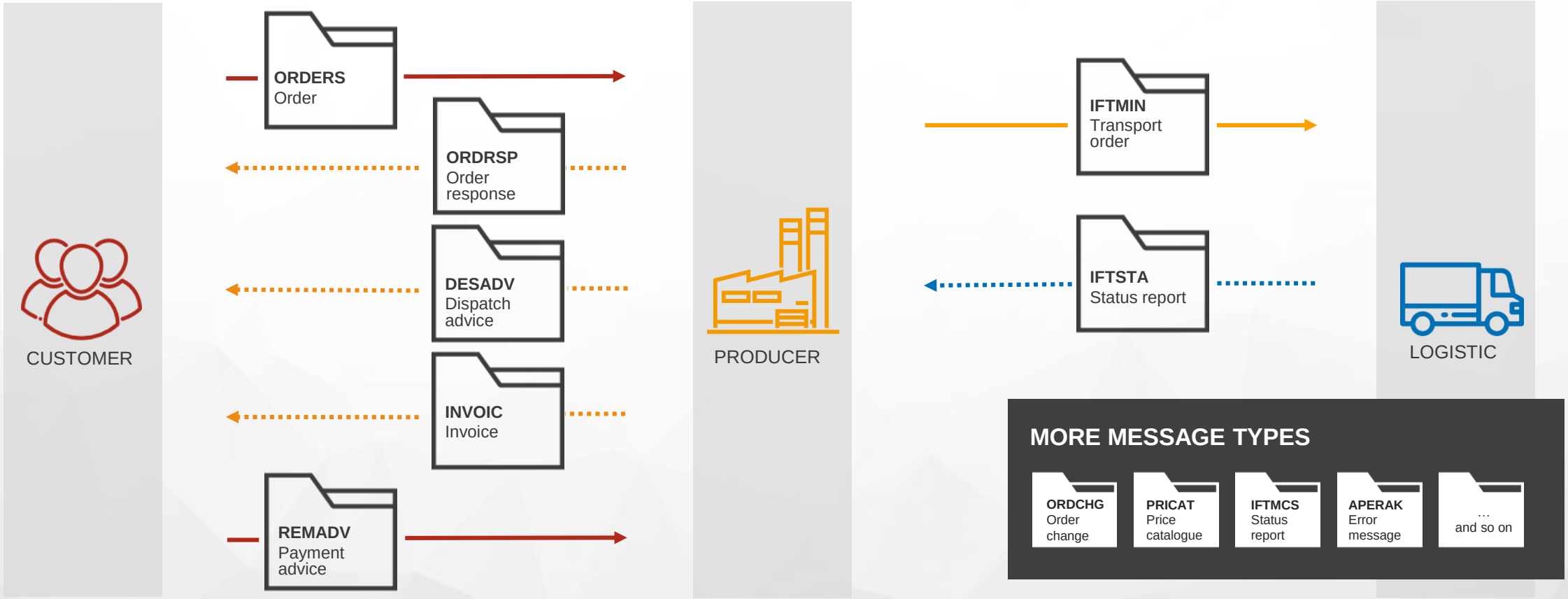
FROM EDIFACT TO X.12: EDI FORMATS

STANDARDIZED STRUCTURES FOR UNAMBIGUOUS DATA EXCHANGE

FROM ORDERS TO INVOIC: MESSAGE TYPES

EXAMPLES FOR DATA THAT CAN BE EXCHANGED – EDIFACT MESSAGES



REQUIREMENTS (TARGETS)

ELECTRONIC DATA EXCHANGE OF STANDARDIZED MESSAGES

? Which data format is requested?

? Do I have a guideline and/or example data?

? Which **communication** parameters are given?

! **Targets** are **identified** and **communication** with partner is **possible**:

➡ Example: **EDIFACT and AS2**

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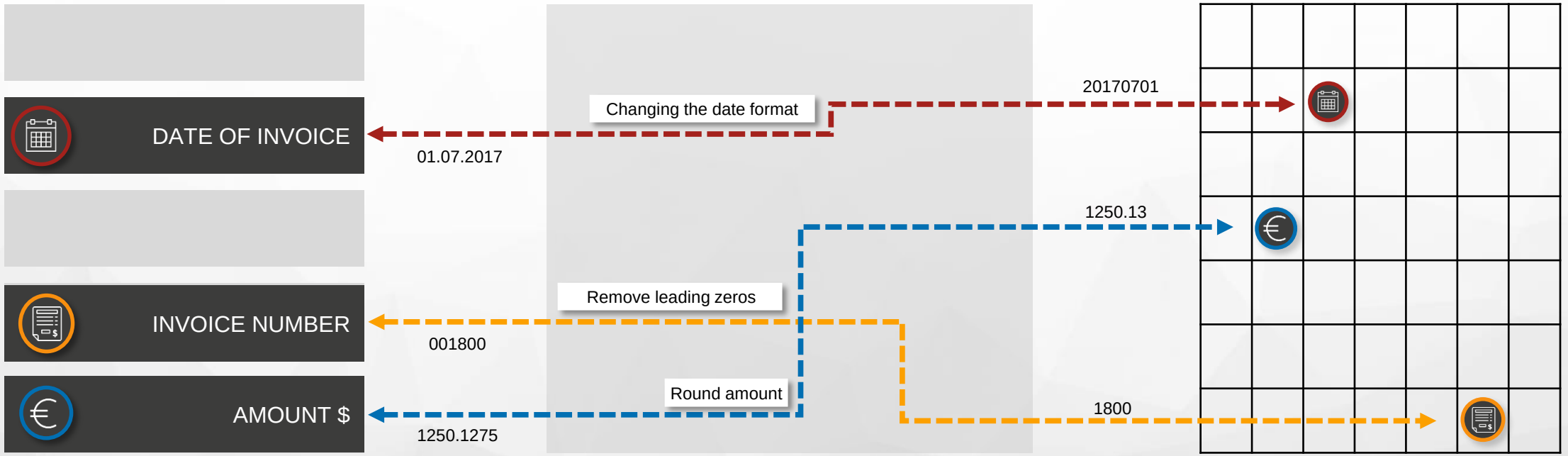
THE TRANSFORMATION OF THE DATA: EDI MAPPING

TRANSFERRING DATA FROM THE SOURCE STRUCTURE TO THE TARGET STRUCTURE

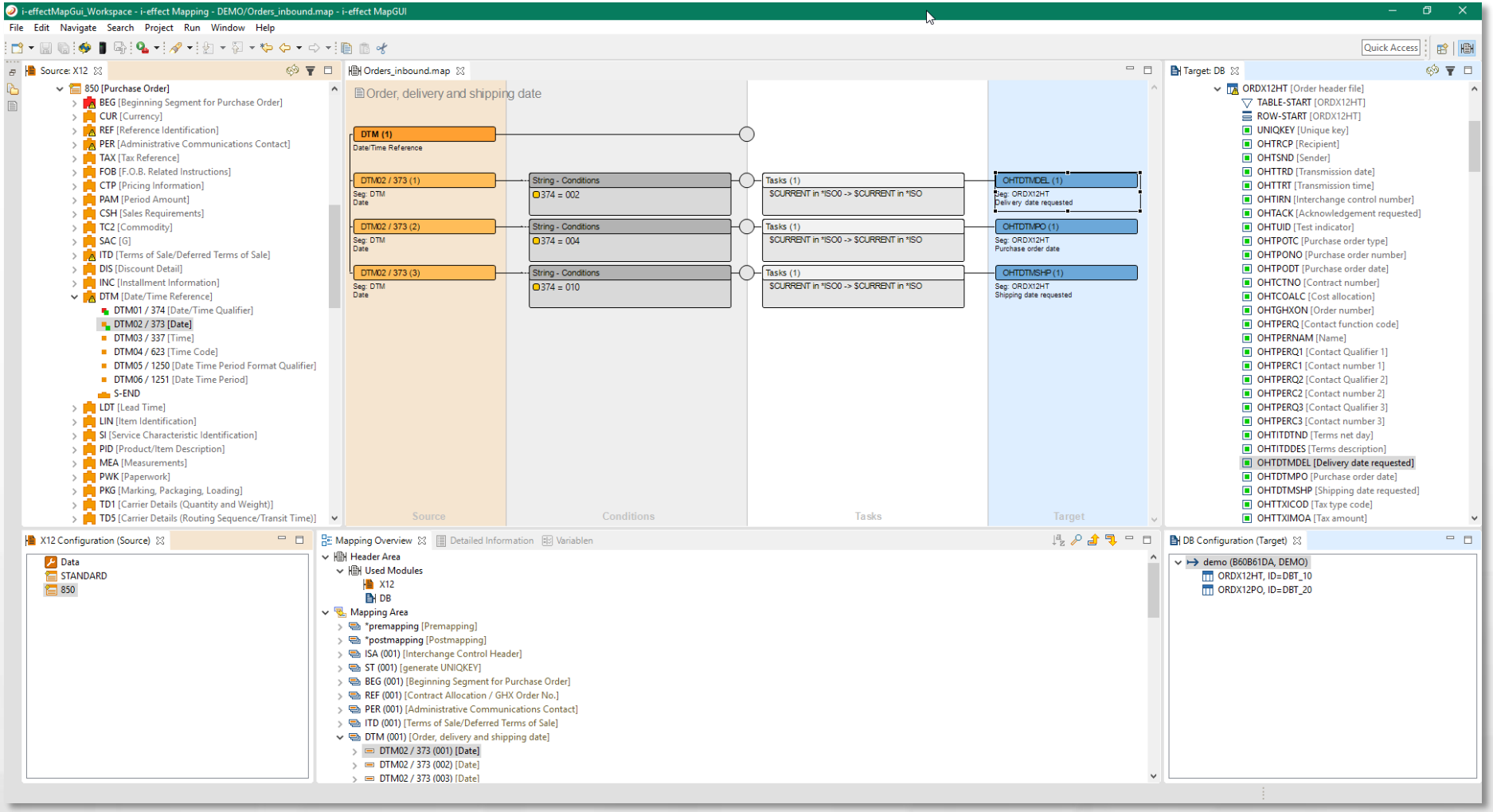
SOURCE
Row-type source structure

MAPPING
Statement for transforming data between different structures

TARGET
Table-like target structure

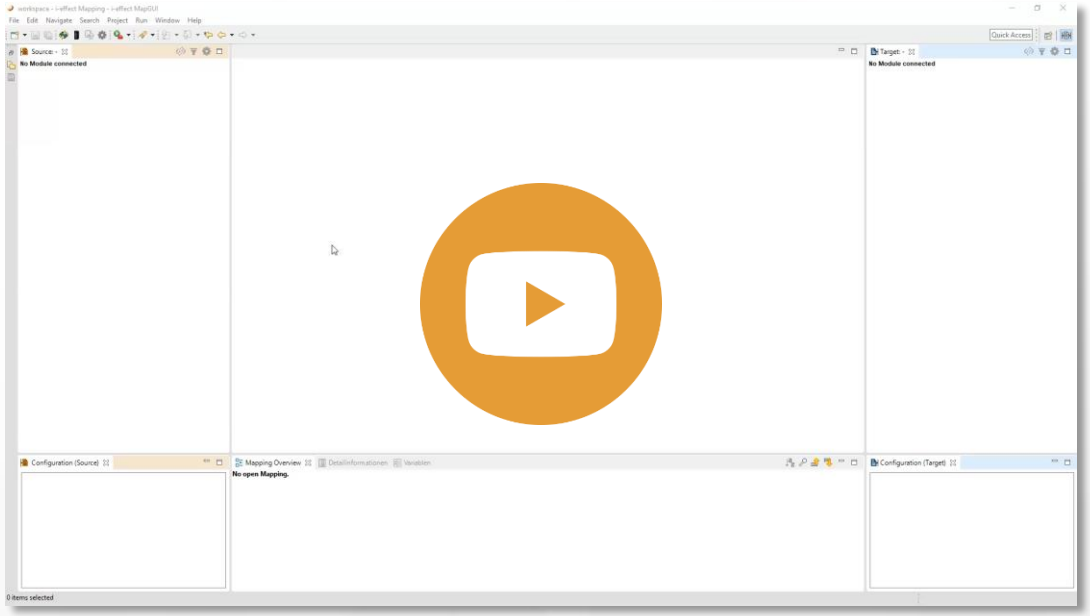


i-effect® INTUITIVE GUI MAPPING



i-effect® INTUITIVE GUI MAPPING

- **Graphical Mapping tool** helps you to create mappings from any-2-any format
- You can use tasks to **manipulate data** within the mapping
- You can use conditions and occurences to **handle different specifics**
- You have your **data structure** and transformation **visualized**



EDI ONBOARDING WITH i-effect®

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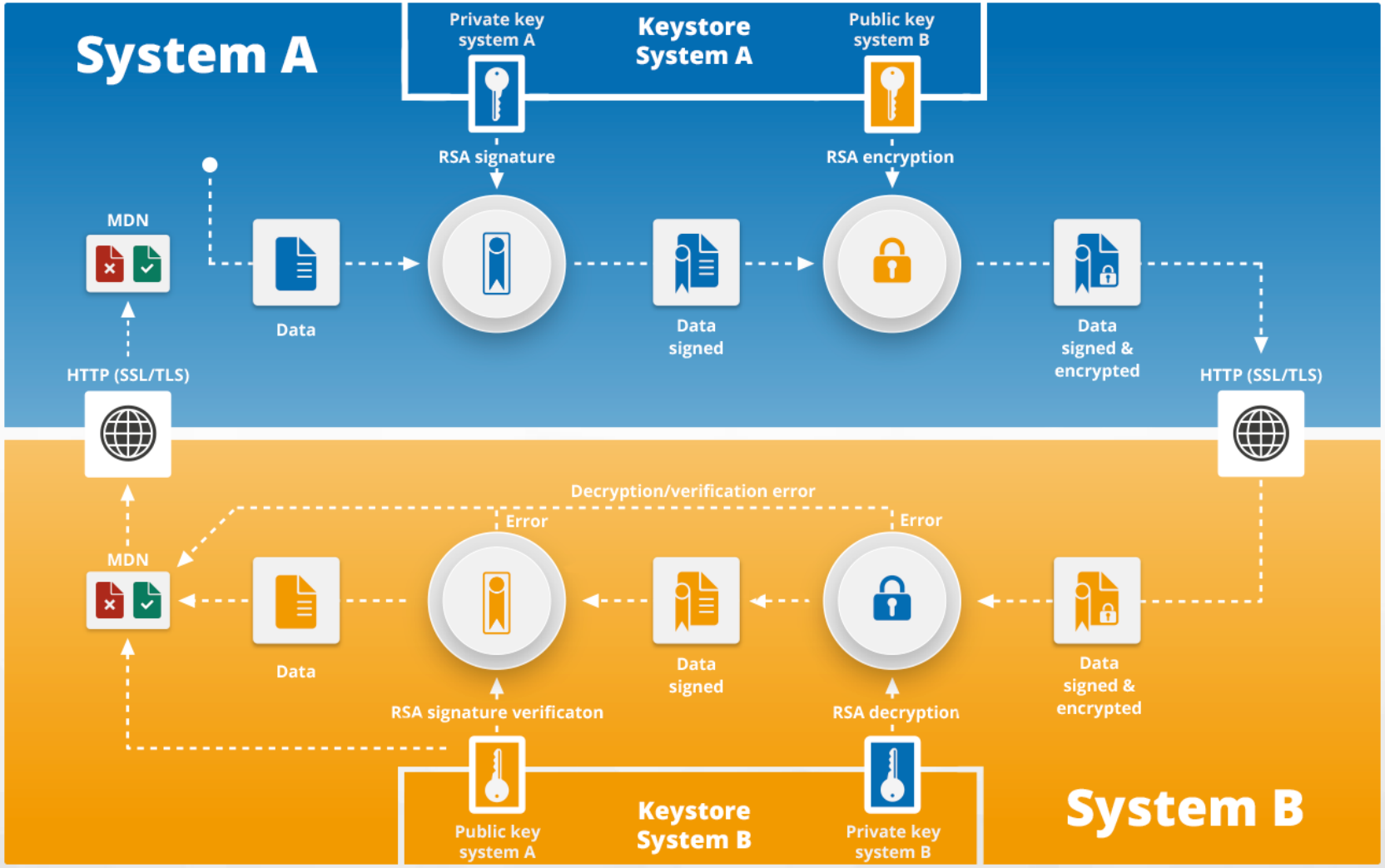
i-effect® COMMUNICATION

i-effect® HOW EDIINT AS2 WORKS?



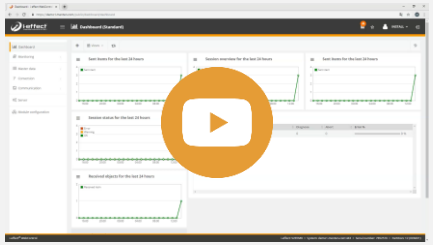
i-effect® COMMUNICATION

1. Setup your own **AS2 server** to receive data
   - Identify your remote address and port
   - Define your AS2-from address

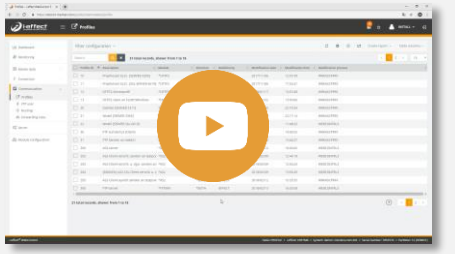
2. Setup the **partners AS2 profile** for sending data to the partner (this information will be provided by your partner)
   - Host & port
   - AS2-to address
   - Signature & Encryption

i-effect® SETUP AS2 **SERVER**

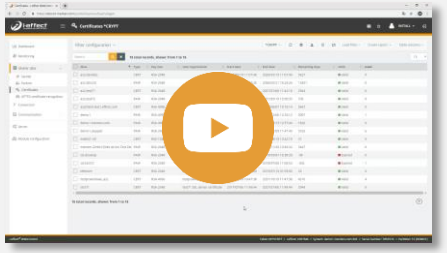
1. Setup **AS2-server** with hostname **demo1.menten.com** and port **4080**



2. Create **key-pair (certificates)** to sign and encrypt messages

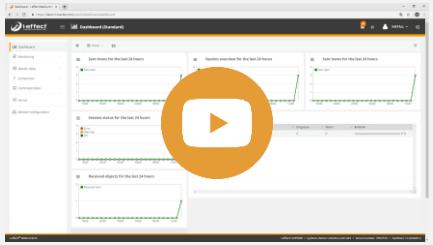


3. Create **sender profile** and assign certificate

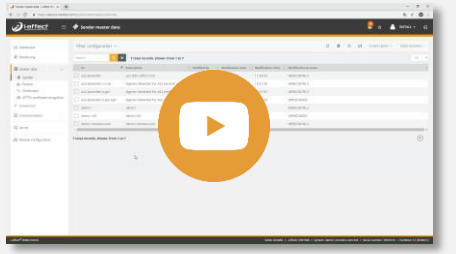


i-effect® SETUP AS2 **CLIENT (PARTNER)**

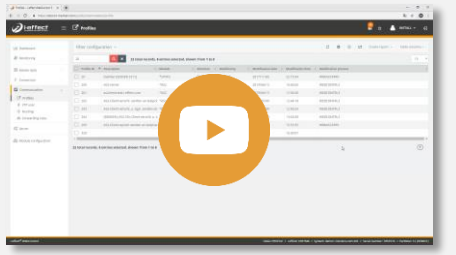
1. **Import** partners **AS2 certificate** into the keystore



2. Create AS2 partners **client profile** and **assign the certificate**



3. **Send “hello world“ file to test** the configuration



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AUTOMATE YOUR (EDI) WORKFLOW WITH i-effect *SERVER

i-effect
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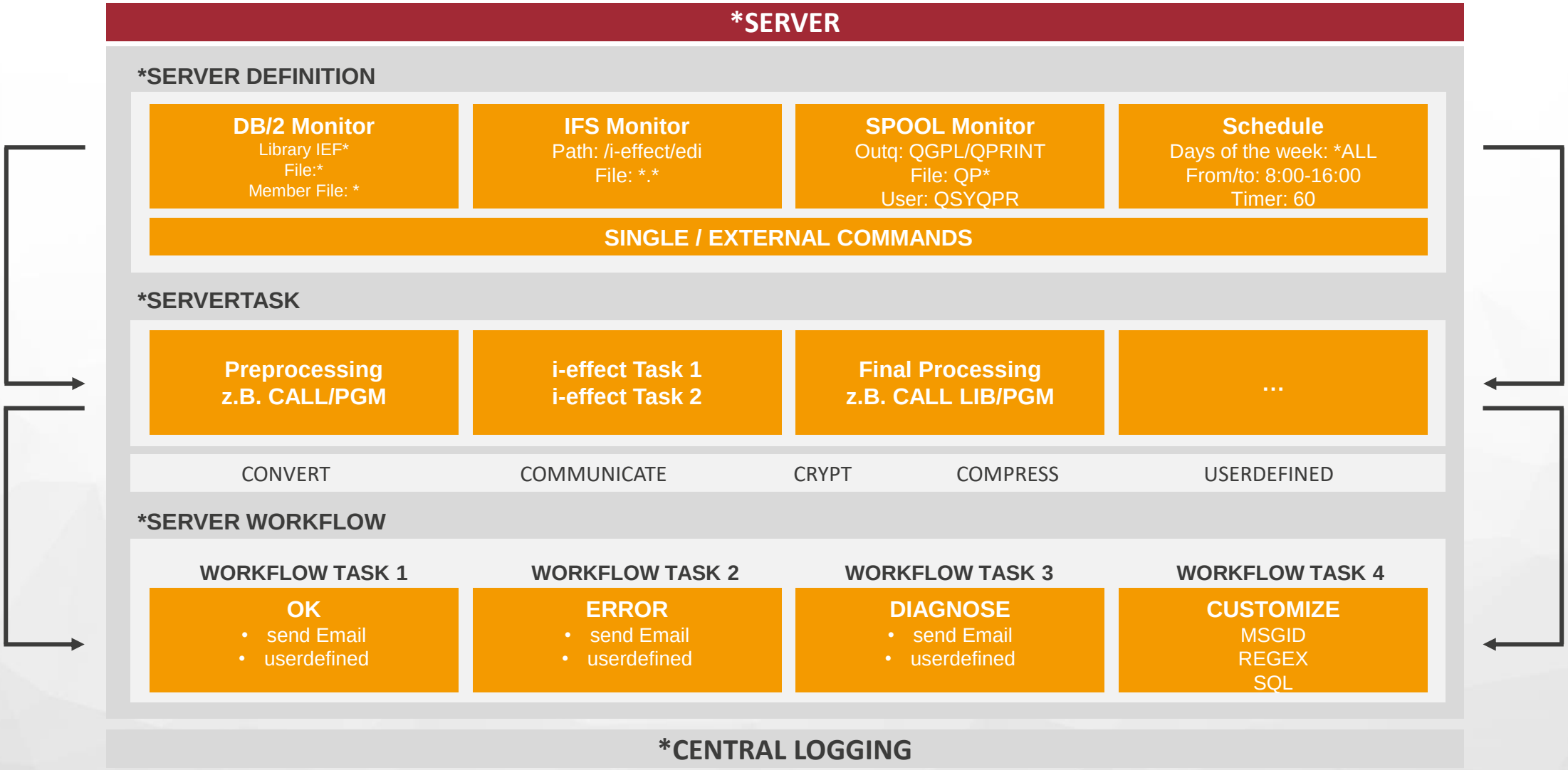
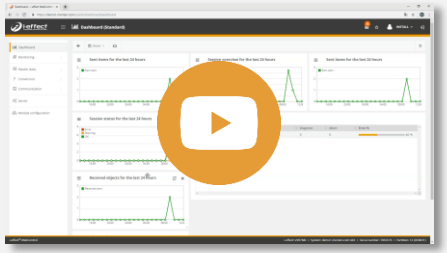
AUTOMATE WITH *SERVER

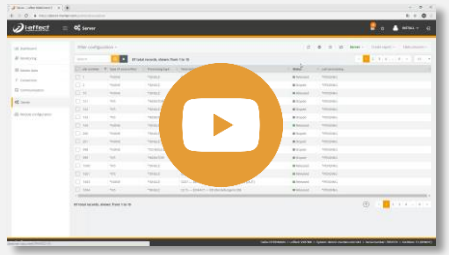


i-effect® CONFIGURE EDI AUTOMATION

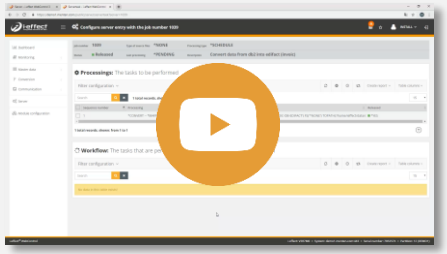
1. Create a **scheduled task** that runs the **mapping** every 30 minutes (stores edifact file in ifs)



2. Create **another task** that **monitors ifs** for **new edifact files** and **send** them to **partner**



3. Configure a **workflow to get notifications** (mails) about failed jobs with errors



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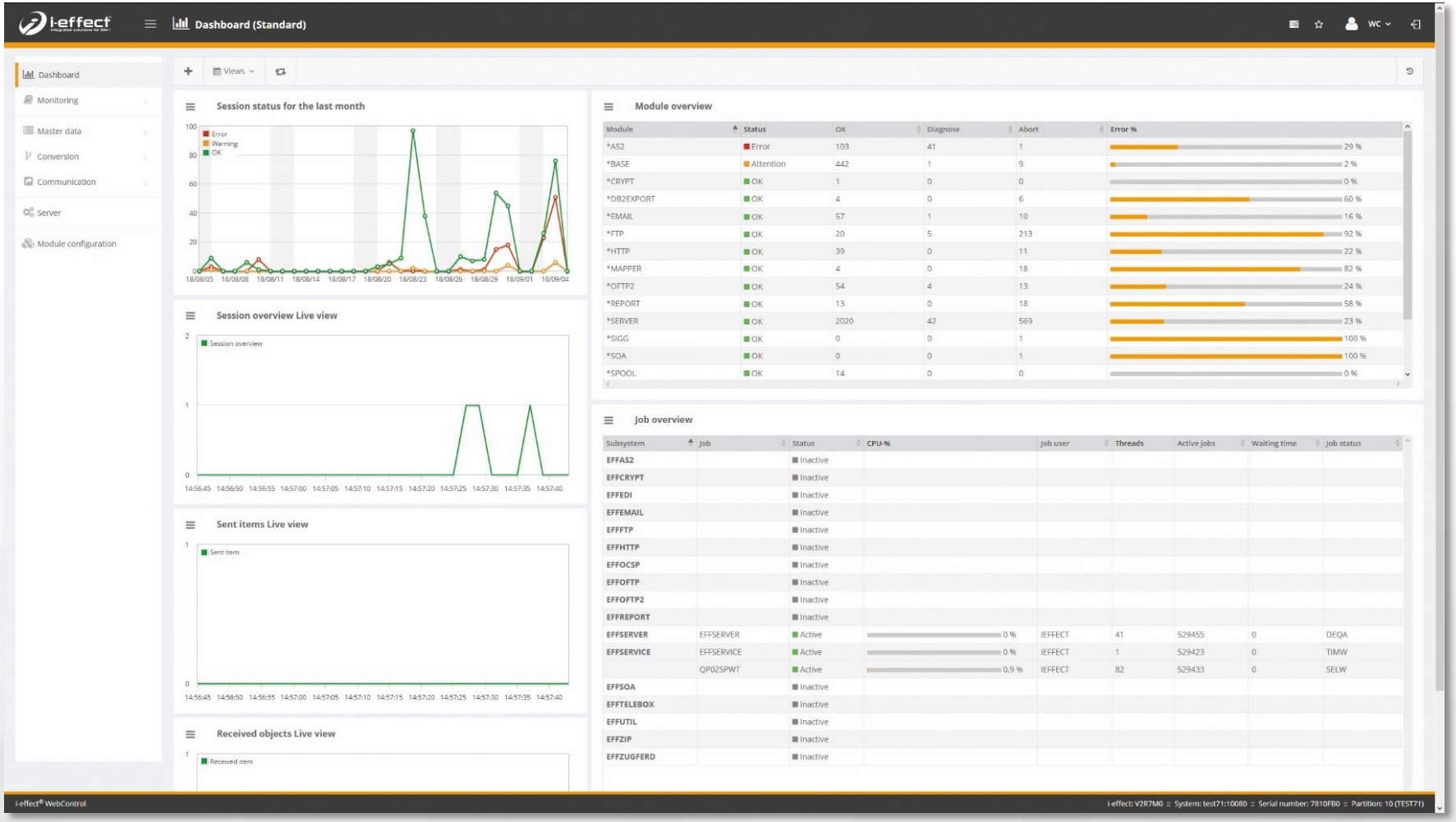
WEBCONTROL

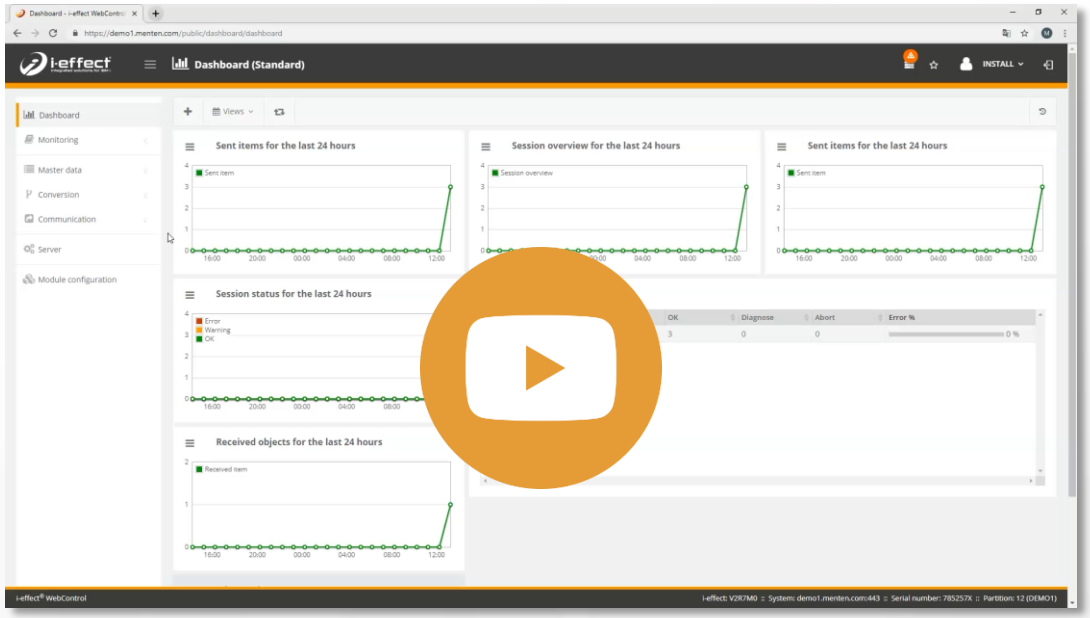
GRAPHICAL ADMINISTRATION INTERFACE



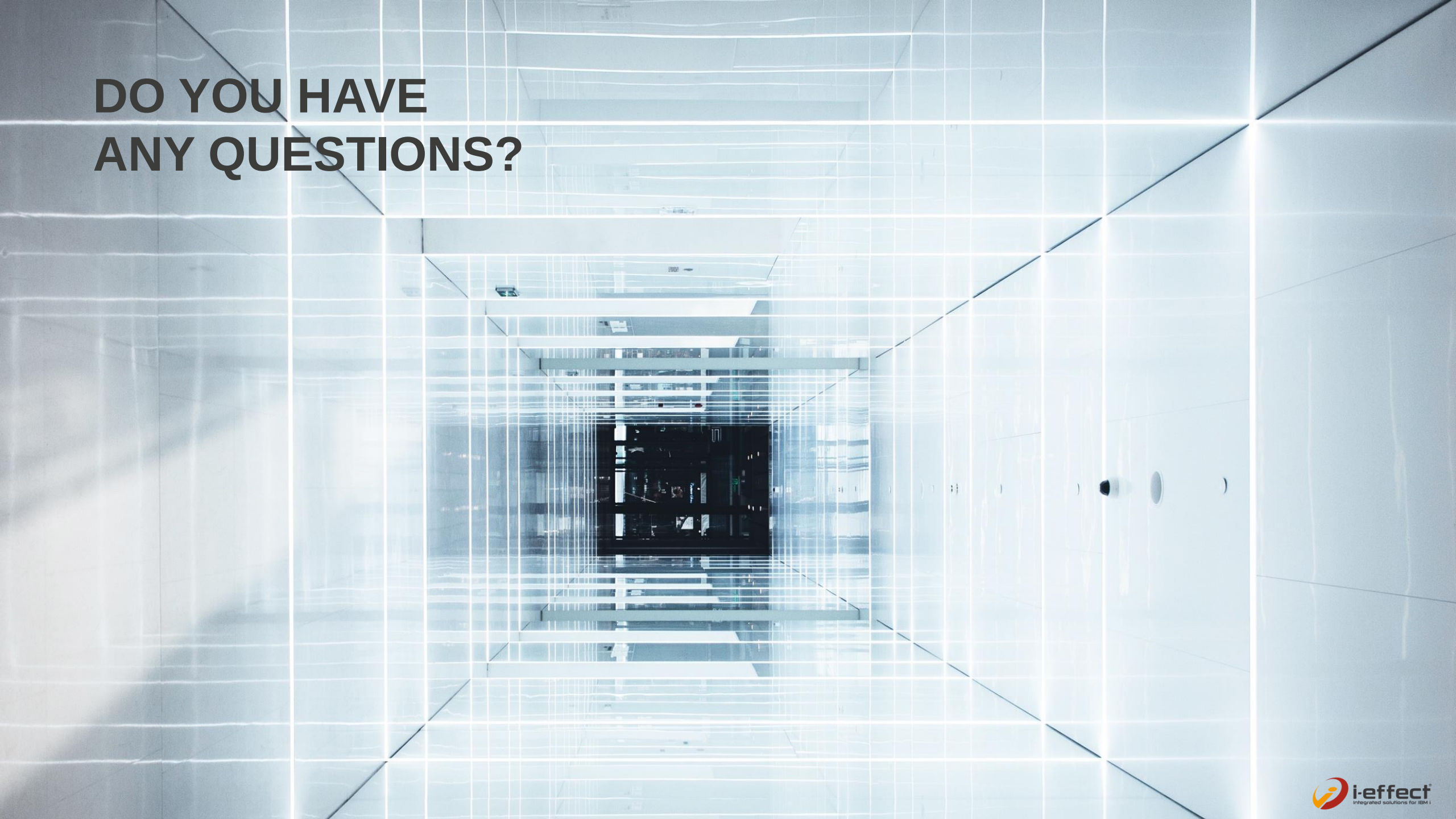
WEBCONTROL

GRAPHICAL ADMINISTRATION INTERFACE

- All actions in the **session logbook** (technical overview)
- **Related sessions** are **linked** as a **process** to keep tracking of **workflows**
- **Inbox** and **outbox** for traffic overview
- **Index** over important key values in messages (i.e. document number)



DO YOU HAVE ANY QUESTIONS?



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