**SAP Integration Suite   
Cloud Integration - Technical Specification  
 iFlow Name : EDI\_850\_TO\_IDOC\_1809\_ORDERS**

Version: 1.0

Author: Generated by AI

Date: 2025-10-19

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# 1. Change History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description** |
| 1.0 | 2025-10-19 | Generated by AI | Initial version |

# 2. Overview

This technical specification document for the EDI\_850\_TO\_IDOC\_1809\_ORDERS iFlow serves as a comprehensive reference guide detailing the iFlow's configuration and design. It outlines key properties such as namespace mappings, HTTP session handling, logging behavior, and security settings like CORS enablement. Furthermore, it specifies the communication participants (Sender and Receiver) and the message flow characteristics, including adapter types (IDOC) and transport protocols (HTTP). The document also details versioning information for components and configuration variants. This ensures consistent deployment, troubleshooting, and future modifications of the iFlow.

# 3. High level iFlow Design

The iFlow named `EDI\_850\_TO\_IDOC\_1809\_ORDERS` processes messages from a Sender to a Receiver system. The flow begins with a `Start` event, followed by a `Content Modifier` which enriches the message with a constant value containing X12 EDI data. Next, an `EDI to XML Converter` transforms the EDI data to XML using the `ASC-X12\_850\_004010.xsd` schema. A `Message Mapping` then transforms the XML to the required IDOC structure defined in mapping `MM.mmap`. Finally, the transformed message is delivered to the Receiver system through the `End` event.

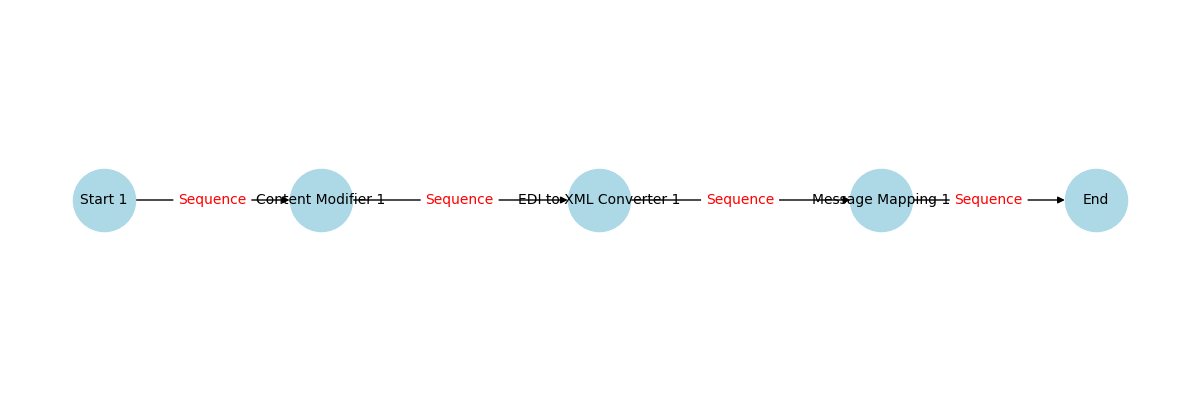


Figure: High level BPMN iFlow message and sequence flow

# 4. Message Flow

The message flow, named "IDOC" (ID: MessageFlow\_69), represents a sender integration. It utilizes the IDOC adapter to send messages to StartEvent\_66. The component is configured as a sender, using the HTTP transport protocol and the IDoc SOAP message protocol, version 1.8.1. Authentication is role-based, requiring the ESBMessaging.send role and enforcing a maximum body size of 40KB and attachment size of 100KB. The endpoint address is set to /IDOC\_SRI and utilizes component version 1.4.

|  |  |  |
| --- | --- | --- |
| **Source** | **Target** | **Name** |
| Sender | Start 1 | IDOC |

# 5. Technical Description

## 5.1. Main Integration Process

The SAP iFlow "Integration Process" (Process\_1) starts with a `StartEvent\_66` and ends with an `EndEvent\_2`. The process flow includes a `CallActivity\_14` acting as a Content Modifier, followed by an `EDItoXMLConverter` activity (`CallActivity\_17`). Next is another `CallActivity\_4` that acts as a Message Mapping step. The EDI to XML Converter uses the X12 schema `ASC-X12\_850\_004010.xsd`.

|  |  |  |
| --- | --- | --- |
| **Component Name** | **Key** | **Value** |
| Integration Process | Transaction Timeout | 30 |
| Integration Process | Component Version | 1.2 |
| Integration Process | Cmd Variant Uri | ctype::FlowElementVariant/cname::IntegrationProcess/version::1.2.1 |
| Integration Process | Transactional Handling | Not Required |

### endEvent End Properties

|  |  |
| --- | --- |
| **Key** | **Value** |
| Component Version | 1.1 |
| Cmd Variant Uri | ctype::FlowstepVariant/cname::MessageEndEvent/version::1.1.0 |

### callActivity Content Modifier 1 Properties

|  |  |
| --- | --- |
| **Key** | **Value** |
| Body Type | constant |
| Property Table |  |
| Header Table |  |
| Wrap Content | ISA\*00\* \*00\* \*ZZ\*0011223456 \*ZZ\*999999999 \*990320\*0157\*U\*00401\*000000015\*0\*P\*>~ GS\*PO\*0011223456\*999999999\*950120\*0147\*5\*X\*004010~ ST\*850\*000000001~ BEG\*00\*SA\*95018017\*\*\*950118~ N1\*SE\*UNIVERSAL WIDGETS~ N3\*375 PLYMOUTH PARK\*SUITE 205~ N4\*IRVING\*TX\*75061~ N1\*ST\*JIT MANUFACTURING~ N3\*BUILDING 3B\*2001 ENTERPRISE PARK~ N4\*JUAREZ\*CH\*\*MEX~ N1\*AK\*JIT MANUFACTURING~ N3\*400 INDUSTRIAL PARKWAY~ N4\*INDUSTRIAL AIRPORT\*KS\*66030~ N1\*BT\*JIT MANUFACTURING~ N2\*ACCOUNTS PAYABLE DEPARTMENT~ N3\*400 INDUSTRIAL PARKWAY~ N4\*INDUSTRIAL AIRPORT\*KS\*66030~ PO1\*001\*4\*EA\*330\*TE\*IN\*525\*VN\*X357-W2~ PID\*F\*\*\*\*HIGH PERFORMANCE WIDGET~ SCH\*4\*EA\*\*\*\*002\*950322~ CTT\*1\*1~ SE\*20\*000000001~ GE\*1\*5~ IEA\*1\*000000015~ |
| Component Version | 1.6 |
| Activity Type | Enricher |
| Cmd Variant Uri | ctype::FlowstepVariant/cname::Enricher/version::1.6.1 |

### callActivity EDI to XML Converter 1 Properties

|  |  |
| --- | --- |
| **Key** | **Value** |
| Tradacoms Source Encoding | ISO-8859-1 |
| X12 Source Encoding | ISO-8859-1 |
| Edifact Source Encoding | ISO-8859-1 |
| Tradacoms Header Name |  |
| Tradacoms Conversion Preference | No |
| Tradacoms Edi Schema Source | IntegrationProject |
| Component Version | 2.6 |
| Edifact Header Name |  |
| Edifact Envelope Truncator | true |
| Edifact Decimal Character | fromIncomingPayload |
| Edifact Target Root Element | interchange |
| X12 Edi Schema Source | IntegrationProject |
| X12 Header Name |  |
| X12 Envelope Truncator | false |
| Tradacoms Schema Table |  |
| Edifact Edi Schema Source | IntegrationProject |
| Activity Type | EDItoXMLConverter |
| Cmd Variant Uri | ctype::FlowstepVariant/cname::EDItoXMLConverter/version::2.6.0 |
| X12 Schema Table | <row><cell id='x12SchemaName'>/xsd/ASC-X12\_850\_004010.xsd</cell></row> |
| Edifact Target Encoding | ISO-8859-1 |
| Edifact Schema Table |  |

### startEvent Start 1 Properties

|  |  |
| --- | --- |
| **Key** | **Value** |
| Cmd Variant Uri | ctype::FlowstepVariant/cname::MessageStartEvent |

### callActivity Message Mapping 1 Properties

|  |  |
| --- | --- |
| **Key** | **Value** |
| Mappinguri | dir://mmap/src/main/resources/mapping/MM.mmap |
| Mappingname | MM |
| Mapping Source Value |  |
| Mapping Type | MessageMapping |
| Mapping Reference | static |
| Mappingpath | src/main/resources/mapping/MM |
| Component Version | 1.3 |
| Activity Type | Mapping |
| Cmd Variant Uri | ctype::FlowstepVariant/cname::MessageMapping/version::1.3.1 |
| Message Mapping Bundle Id |  |

### callActivity Message Mapping 2 Properties

|  |  |
| --- | --- |
| **Key** | **Value** |
| Mappinguri | dir://mmap/src/main/resources/mapping/EDI\_850.mmap |
| Mappingname | EDI\_850 |
| Mapping Source Value |  |
| Mapping Type | MessageMapping |
| Mapping Reference | static |
| Mappingpath | src/main/resources/mapping/EDI\_850 |
| Component Version | 1.3 |
| Activity Type | Mapping |
| Cmd Variant Uri | ctype::FlowstepVariant/cname::MessageMapping/version::1.3.1 |
| Message Mapping Bundle Id |  |

## 5.2. Local Integration Process

Please provide the XML you would like me to summarize. I need the XML content to be able to create a 5-sentence summary of the Main Integration Process and its child elements for the specified SAP iFlow Process\_1. Once you provide the XML, I will give you a technical and human-friendly summary.

No process with id='Process\_1' found.

## 5.3. Sender

The sender system in this SAP iFlow is identified as `Sender` and utilizes the `IDOC` adapter with `sap` namespace. It communicates using the `HTTP` transport protocol and `IDoc SOAP` message protocol. Authentication is `RoleBased`, requiring the `ESBMessaging.send` user role. The endpoint address is `/IDOC\_SRI`, with a maximum body size of 40MB and attachment size of 100MB. This endpoint's business role is to send IDoc messages using SOAP over HTTP into the iFlow for processing.

|  |  |
| --- | --- |
| **Key** | **Value** |
| Component Type | IDOC |
| Description |  |
| Address | /IDOC\_SRI |
| Maximum Body Size | 40 |
| Component N S | sap |
| Maximum Attachment Size | 100 |
| Component Version | 1.4 |
| Name | IDOC |
| Xml Character Handling | throwException |
| Transport Protocol Version | 1.8.1 |
| Component S W C V Name | external |
| System | Sender |
| Transport Protocol | HTTP |
| Cmd Variant Uri | ctype::AdapterVariant/cname::sap:IDOC/tp::HTTP/mp::IDoc SOAP/direction::Sender/version::1.4.4 |
| User Role | ESBMessaging.send |
| Sender Auth Type | RoleBased |
| Message Protocol | IDoc SOAP |
| Message Protocol Version | 1.8.1 |
| Component S W C V Id | 1.8.1 |
| Direction | Sender |
| Client Certificates |  |

## 5.4. Receiver

The Receiver section of the SAP iFlow, as defined by the provided XML, is currently configured without specific receiver channel configurations. `<ReceiverProperties>` contains no elements, indicating no explicit receiver determination or receiver-specific adaptations are defined. The iFlow will likely rely on other mechanisms, such as receiver rules or pre-determined default receivers, to route messages. Absence of receiver configuration might imply a simple scenario with a single, fixed target or a more complex routing setup defined elsewhere in the iFlow. Further examination of other sections, like Receiver Determination and Routing Rules, is needed for a complete understanding of the message routing process.

## 5.5. Mappings

The SAP iFlow contains two Message Mapping activities. The first, identified by `id="1"`, executes the message mapping `MM.mmap` located at `src/main/resources/mapping/MM`. The second, identified by `id="2"`, executes the message mapping `EDI\_850.mmap` located at `src/main/resources/mapping/EDI\_850`. Both mappings are of type `MessageMapping`, referenced statically, and use component version 1.3 with command variant `ctype::FlowstepVariant/cname::MessageMapping/version::1.3.1`. There's no explicit source value transformation configuration indicated in the XML. The mappings are defined within the iFlow project structure rather than from a separate bundle.

### Mapping Activity 1 Properties

|  |  |
| --- | --- |
| **Key** | **Value** |
| mappinguri | dir://mmap/src/main/resources/mapping/MM.mmap |
| mappingname | MM |
| mappingSourceValue |  |
| mappingType | MessageMapping |
| mappingReference | static |
| mappingpath | src/main/resources/mapping/MM |
| componentVersion | 1.3 |
| activityType | Mapping |
| cmdVariantUri | ctype::FlowstepVariant/cname::MessageMapping/version::1.3.1 |
| messageMappingBundleId |  |

### Mapping Activity 2 Properties

|  |  |
| --- | --- |
| **Key** | **Value** |
| mappinguri | dir://mmap/src/main/resources/mapping/EDI\_850.mmap |
| mappingname | EDI\_850 |
| mappingSourceValue |  |
| mappingType | MessageMapping |
| mappingReference | static |
| mappingpath | src/main/resources/mapping/EDI\_850 |
| componentVersion | 1.3 |
| activityType | Mapping |
| cmdVariantUri | ctype::FlowstepVariant/cname::MessageMapping/version::1.3.1 |
| messageMappingBundleId |  |

## 5.6. Security

The iFlow's security configuration specifies `None` for HTTP session handling, disables CORS (`corsEnabled: false`), and does not expose any custom headers. The iFlow logs all events and does not return exceptions to the sender. The sender authentication type for the IDOC message flow is role-based, requiring the `ESBMessaging.send` role, and basic authentication is disabled for the endpoint sender. The iFlow does not enable access control with max age settings, and no specific allowed origins, headers, or methods are configured. Credential sharing via `accessControlAllowCredentials` is also disabled.

|  |  |
| --- | --- |
| **Key** | **Value** |
| Namespace Mapping |  |
| Http Session Handling | None |
| Access Control Max Age |  |
| Return Exception To Sender | false |
| Log | All events |
| Cors Enabled | false |
| Exposed Headers |  |
| Component Version | 1.2 |
| Allowed Header List |  |
| Server Trace | false |
| Allowed Origins |  |
| Access Control Allow Credentials | false |
| Allowed Headers |  |
| Allowed Methods |  |
| Cmd Variant Uri | ctype::IFlowVariant/cname::IFlowConfiguration/version::1.2.4 |

## 5.7. Groovy Scripts

The SAP iFlow "EDI\_850\_TO\_IDOC\_1809\_ORDERS" processes EDI 850 Purchase Order data. It starts with a `StartEvent` and ends with an `EndEvent`. The iFlow utilizes an `Enricher` (Content Modifier 1) to set the EDI input. The core transformation involves converting the EDI data to XML using an `EDItoXMLConverter` activity based on the ASC-X12\_850\_004010.xsd schema. Finally, it maps the XML to IDOC format by Message Mapping 1 using `MM.mmap` which ends the iFlow.

No Groovy scripts found in the specified folder.

## 5.8. Error Handling & Logging

The provided XML indicates that the SAP iFlow's error handling configuration (`<Exceptions>`) is currently empty. This signifies that no explicit error handling rules or exception sub-processes are defined within the iFlow for managing runtime errors. Consequently, any errors encountered during iFlow execution will likely trigger the default error handling behavior of the SAP Integration Suite. Without further configuration, custom error logging or specific failure recovery actions are absent. Error information may still be available through the Integration Suite monitoring tools.

No exception subprocesses found in the iFlow.

# 6. Version and Metadata

|  |  |
| --- | --- |
| **Key** | **Value** |
| componentVersion | 1.3 |
| ComponentNS | sap |
| ComponentSWCVName | external |
| ComponentSWCVId | 1.8.1 |

This SAP iFlow utilizes component version 1.3. The component namespace is `sap`, indicating it's a standard SAP component. It's associated with the Software Component Version (SWCV) named "external." The SWCV's identifier is 1.8.1, specifying a specific release or patch level. This metadata defines the software context and version dependencies of the iFlow.

# 7. Appendix

This iFlow contains the following technical artifacts: It begins with a `StartEvent\_66` and ends with `EndEvent\_2`. A `Content Modifier 1 (CallActivity\_14)` enriches the message with a constant body, which includes EDI data. Then, `EDI to XML Converter 1 (CallActivity\_17)` converts the EDI data to XML using the `ASC-X12\_850\_004010.xsd` schema. Subsequently, `Message Mapping 1 (CallActivity\_4)` applies the `MM.mmap` mapping. Finally, there's an unreferenced `Message Mapping 2 (CallActivity\_8)` with the `EDI\_850.mmap` mapping.

|  |  |
| --- | --- |
| **Key** | **Value** |
| mappinguri | dir://mmap/src/main/resources/mapping/MM.mmap |
| mappingname | MM |
| mappingType | MessageMapping |
| mappingReference | static |
| mappingpath | src/main/resources/mapping/MM |
| mappinguri | dir://mmap/src/main/resources/mapping/EDI\_850.mmap |
| mappingname | EDI\_850 |
| mappingType | MessageMapping |
| mappingReference | static |
| mappingpath | src/main/resources/mapping/EDI\_850 |