Handle SOAP Attachments
January 2025
English

SOAP attachments to Base64

Content

Configuration Guide

Fehler! Verweisquelle konnte nicht gefunden werden. 2

1 Prerequisites

- Sender-System sends attachments as SOAP Attachments, these attachments need to be part of the payload of the receiver systems as Base64 string

2 Documentation

- The Integration flow is setup as Process direct Flow – that it can be used out of the box for customer specific setup
- The Integration flow works on basis of XML structure
- The incoming SOAP message which contains multiple Attachments – can be replaced by attachment content or enriched at a specific node
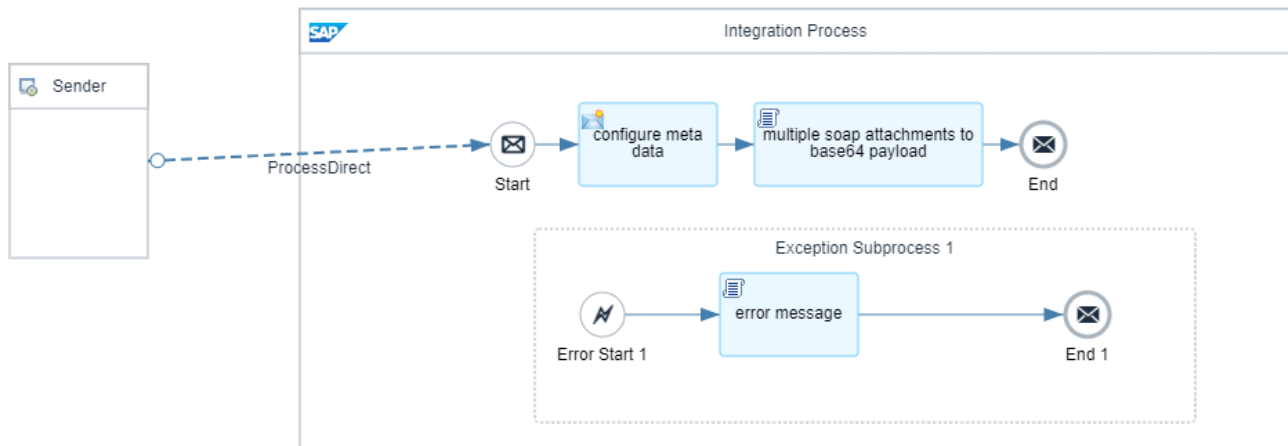

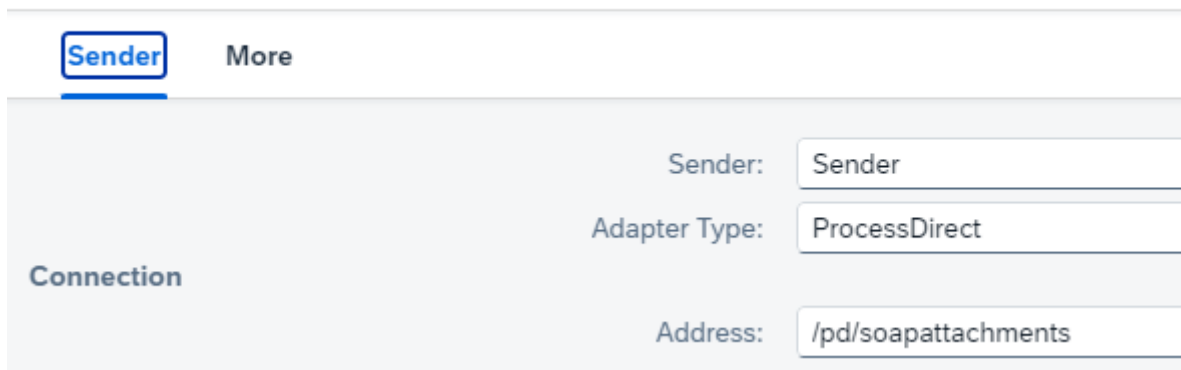
Figure 1 - Overview Integration Flow

3 Configuration steps on SAP Cloud Integration

- Maintain sender adapter and additional attributes in Cloud Integration
- Enable an Oauth2 User in Subaccount – to access the Bussiness APIs from Cloud Integration

3.1 Integration Flow - Sender Adapter

- Configure the Send-Address under which the Integration Flow should be reachable for process direct
- In default it is /pd/soapattachments

Configure "Attachments to Base64"

Sender:	Sender
Adapter Type:	ProcessDirect
Address:	/pd/soapattachments

Figure 2 - Process Direct Address
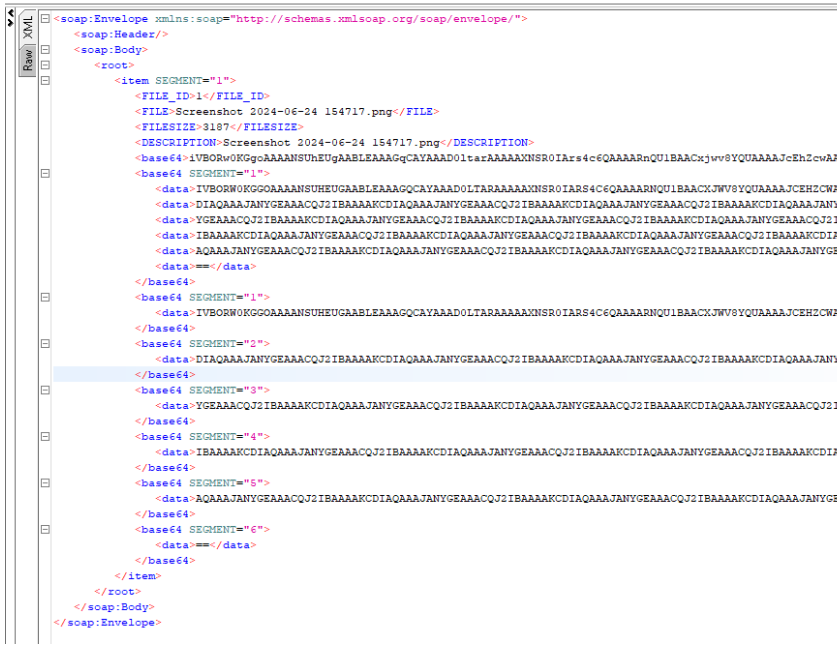
3.2 Integration Flow - Other Parameters

Type:	All Parameters
1_node_name:	attachments
1_replace_payload:	true
2_chunk_size:	850
2_data_chunk_base64:	true
2_single_base64:	true
2_single_data_chunk_base64:	true

Figure 3 - All Parameters

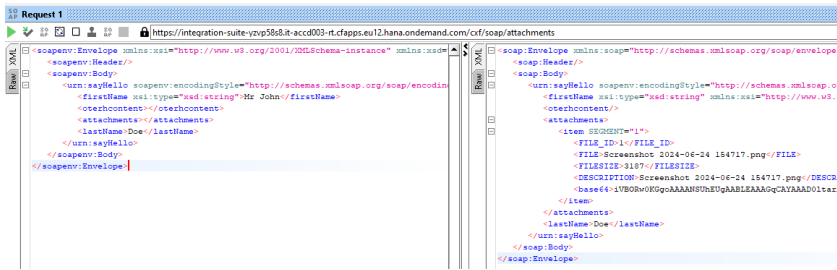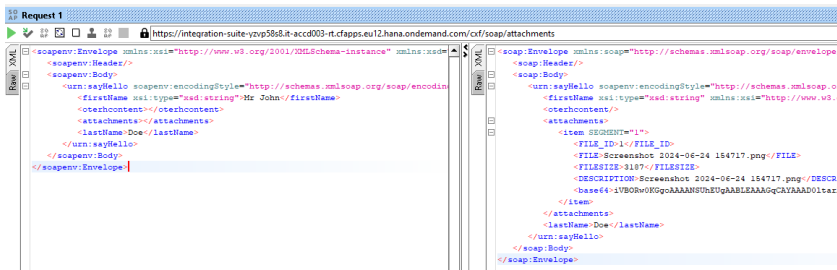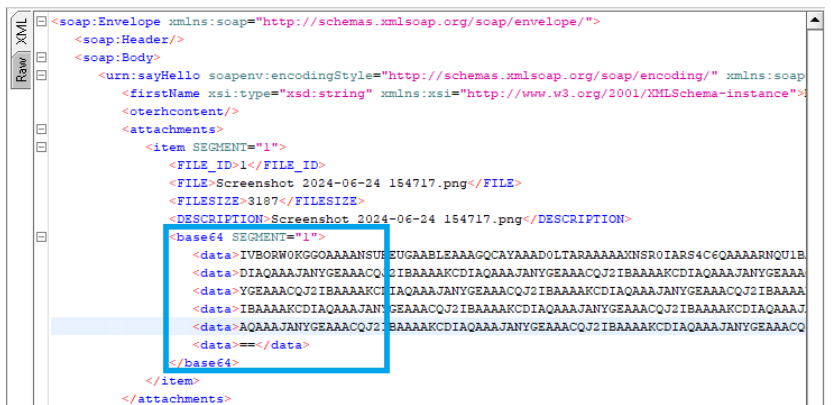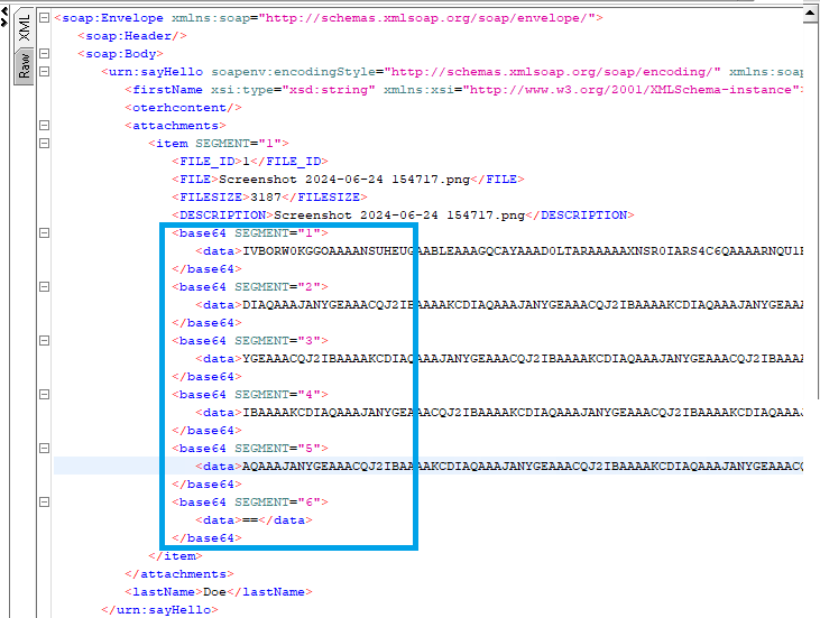| Parameter	Option	Result/illustration

1_replace_payload	True (payload is replaced with <root> <item> attachments block	```xml
		<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
		  <soap:Header/>
		  <soap:Body>
		    <root>
		      <item SEGMENT="1">
		        <FILE_ID>1</FILE_ID>
		        <FILE>Screenshot 2024-06-24 154717.png</FILE>
		        <FILESIZE>3187</FILESIZE>
		        <DESCRIPTION>Screenshot 2024-06-24 154717.png</DESCRIPTION>
		        <base64>iVBORw0KGgoAAAANSUhEUgAABLEAAAGqCAYAAAD01tarAAAAAXNSR0IArs4c6QAAAARnQU1BAACxjwv8YQUAAAAJcEhZcwAA
		        <base64 SEGMENT="1">
		          <data>IVBORw0KGGoAAAANSUHEUGAABLEAAAGQCAYAAAD0LTARAAAAAXNSR0IARS4C6QAAAARNQU1BAACXJWV8YQUAAAAJCEHZCWA
		          <data>DIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANY
		          <data>YGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2I
		          <data>IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIA
		          <data>AQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGE
		          <data>==</data>
		        </base64>
		        <base64 SEGMENT="1">
		          <data>IVBORw0KGGoAAAANSUHEUGAABLEAAAGQCAYAAAD0LTARAAAAAXNSR0IARS4C6QAAAARNQU1BAACXJWV8YQUAAAAJCEHZCWA
		        </base64>
		        <base64 SEGMENT="2">
		          <data>DIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANY
		        </base64>
		        <base64 SEGMENT="3">
		          <data>YGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2I
		        </base64>
		        <base64 SEGMENT="4">
		          <data>IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIA
		        </base64>
		        <base64 SEGMENT="5">
		          <data>AQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGE
		        </base64>
		        <base64 SEGMENT="6">
		          <data>==</data>
		        </base64>
		      </item>
		    </root>
		  </soap:Body>
		</soap:Envelope>
		``

1_replace_payload	false in combination with 1_node_name	Request 1 — https://integration-suite-yzvp58s8.it-accd003-rt.cfapps.eu12.hana.ondemand.com/cxf/soap/attachments
		``xml
		<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd=...>
		  <soapenv:Header/>
		  <soapenv:Body>
		    <urn:sayHello soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encodin
		      <firstName xsi:type="xsd:string">Mr John</firstName>
		      <oterhcontent></oterhcontent>
		      <attachments></attachments>
		      <lastName>Doe</lastName>
		    </urn:sayHello>
		  </soapenv:Body>
		</soapenv:Envelope>
		``
		``xml
		<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope
		  <soap:Header/>
		  <soap:Body>
		    <urn:sayHello soapenv:encodingStyle="http://schemas.xmlsoap.o
		      <firstName xsi:type="xsd:string" xmlns:xsi="http://www.w3...
		      <oterhcontent/>
		      <attachments>
		        <item SEGMENT="1">
		          <FILE_ID>1</FILE_ID>
		          <FILE>Screenshot 2024-06-24 154717.png</FILE>
		          <FILESIZE>3187</FILESIZE>
		          <DESCRIPTION>Screenshot 2024-06-24 154717.png</DESCR
		          <base64>iVBORw0KGgoAAAANSUhEUgAABLEAAAGqCAYAAAD01tar
		        </item>
		      </attachments>
		      <lastName>Doe</lastName>
		    </urn:sayHello>
		  </soap:Body>
		</soap:Envelope>
		``

1_node_name	Node name in payload under which the attachments node should be added – (example: attachments)	Request 1 — https://integration-suite-yzvp58s8.it-accd003-rt.cfapps.eu12.hana.ondemand.com/cxf/soap/attachments
		``xml
		<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd=...>
		  <soapenv:Header/>
		  <soapenv:Body>
		    <urn:sayHello soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encodin
		      <firstName xsi:type="xsd:string">Mr John</firstName>
		      <oterhcontent></oterhcontent>
		      <attachments></attachments>
		      <lastName>Doe</lastName>
		    </urn:sayHello>
		  </soapenv:Body>
		</soapenv:Envelope>
		``
		``xml
		<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope
		  <soap:Header/>
		  <soap:Body>
		    <urn:sayHello soapenv:encodingStyle="http://schemas.xmlsoap.o
		      <firstName xsi:type="xsd:string" xmlns:xsi="http://www.w3...
		      <oterhcontent/>
		      <attachments>
		        <item SEGMENT="1">
		          <FILE_ID>1</FILE_ID>
		          <FILE>Screenshot 2024-06-24 154717.png</FILE>
		          <FILESIZE>3187</FILESIZE>
		          <DESCRIPTION>Screenshot 2024-06-24 154717.png</DESCR
		          <base64>iVBORw0KGgoAAAANSUhEUgAABLEAAAGqCAYAAAD01tar
		        </item>
		      </attachments>
		      <lastName>Doe</lastName>
		    </urn:sayHello>
		  </soap:Body>
		</soap:Envelope>
		``

2_chunk_size	size in bytes for the data chunk default 850	

2_data_chunk_base64	true/false (base64 with multiple data chunk nodes <data>)	```xml
		<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
		  <soap:Header/>
		  <soap:Body>
		    <urn:sayHello soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xmlns:soap
		      <firstName xsi:type="xsd:string" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
		      <oterhcontent>
		      <attachments>
		        <item SEGMENT="1">
		          <FILE_ID>1</FILE_ID>
		          <FILE>Screenshot 2024-06-24 154717.png</FILE>
		          <FILESIZE>3187</FILESIZE>
		          <DESCRIPTION>Screenshot 2024-06-24 154717.png</DESCRIPTION>
		          <base64 SEGMENT="1">
		            <data>IVBORw0KGGOAAAANSUHEUGAABLEAAAGQCAYAAAD0LTARAAAAAXNSR0IARS4C6QAAAARNQU1B
		            <data>DIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAA
		            <data>YGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAA
		            <data>IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJ
		            <data>AQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQJ2IBAAAAKCDIAQAAAJANYGEAAACQ
		            <data>==</data>
		          </base64>
		        </item>
		      </attachments>
		``

2_single_base64	true/false (single node \<base64\>)	
2_single_data_chunk_base64	true/false (multiple \<base64\> nodes with multiple \<data\> nodes)	

Table 1 - configuration options