



Swift Compatible Applications

Alliance Access Integration – SOAP Host Adaptor Technical Qualification Test 2023

This document lists the tests for application providers that integrate their back-office application or middleware with Alliance Access using SOAP Host Adaptor and that are looking at qualifying against the Swift Compatible Application.

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1 Preface

1.1 Purpose

This document describes the test scenarios that a financial application has to pass to be compliant with Alliance Access using SOAP Host Adaptor (SOAPHA).

The purpose of the SOAPHA qualification is to verify the capacity of an application to correctly integrate with SWIFTNet via Alliance Access SOAP Host Adapter.

1.2 Audience

The target audience for this document is both partners considering the compatibility of a product, and Swift users that look after an overview of the SWIFT Compatible Applications contents. The audience should be familiar with Swift portfolio from a technical and a business perspective.

1.3 Swift Compatible Application program

The Swift Compatible Application programme covers the entire financial application chain, from Trade, Treasury and Payment, to Corporate and Securities segments.

Each Swift Compatible Application defines a set of criteria, which are reviewed every year to ensure that the software remains aligned with the financial market evolution and with customer needs.

These criteria are designed to reflect the capability of a financial application to provide message processing automation in a Swift context, and to support straight through processing (STP) in order to increase customer value, limit customisation needs and cost, and reduce time to market.

1.4 Related Documents

The following documents can be found over swift.com:

- [Alliance Access 7.6 release overview](#)
- [Alliance access - Administration guide](#)

2 Introduction

SOAP, originally defined as Simple Object Access Protocol, is a protocol specification for exchanging structured information over HTTPS.

The SOAP connection method enables the exchange of MT and MX using XML V2 or FileAct messages between Alliance Access and back-office applications through the SOAP protocol.

Message Partner and routing rules have to be configured in alliance access for SOAPHA.

2.1 SWIFT Compatible Application Validation

Support of SOAPHA is one of the qualification criteria for granting the Swift Compatible Application Label to a financial application.

The Partners who deployed the Swift Alliance connectivity to Swift ITB can perform these tests independently. Test environment configurations described in [section 3](#).

3 Alliance Access configuration

This set-up is applicable for Partners who have deployed an ITB environment and connect to Alliance Access from their premises.

3.1 Alliance Access

To prepare for the tests, the Alliance Access system must be installed and configured at Partner premises. The following configuration is required for communicating through SOAPHA:

Alliance Access must be upgraded to release 7.6 or higher version. Please note that Alliance access 7.6 or higher versions can be used for MT and MX using XML V2. FileAct with SOAPHA will work with SAA 7.6 or higher versions.

- Additional licence **14:SOAP ADAPTER** is required for SOAP
- For exchanging XML messages **19:AI FILE XML**, license is needed

It is necessary to get acquainted with the [Alliance Access - Administration Guide](#) and [Alliance 7.6 release overview](#) to further configure the interface for test purpose. The Application Interface module of Alliance Access provides all the functions necessary to manage Message Partner profiles. Using Application Interface, the Partner needs to set up the connection profiles that are used by Alliance Access to connect with external message partners. The Application Interface allows exchanging messages with external back-office systems or "Message Partners".

3.2 Message Partner configuration

The SOAPHA communication session is set up and controlled with a dedicated Message Partner configuration in Alliance Access. Using the procedure described in the Alliance Access System Management Guide – SOAP Connection Method, create a Message Partner.

- Specify the connection method as SOAP
- Specify the direction of message transfer
- Configure other parameters

For detailed procedure for creating message partner profile for SOAPHA, please refer to the procedure described in the [Alliance Access – Administration Guide](#) – Managing Message Partner Profiles.

3.3 Exchanging messages using Message Partner

- The SOAPHA supports MT, MX and FileAct messages. It will support only the XMLv2 data format.
- The messages being sent must be the message types supported by the partner application.
- All messages entering Alliance through the Application Interface are queued at one single point of entry – `_AI_from_APPLI` (AI Inbound Queue), before being routed onwards.
- The successfully processed messages will be stored by Alliance Access in the `_SI_to_SWIFTNetQueue`.
- SWIFT Network returns Notification messages for technical reconciliation and response messages, since the test messages were used for "self transfers", meaning, the sender and receiver BIC are the same.
- The application must download the Network notifications and messages sent in "Output from SWIFT" direction.

4 SOAPHA Test preparation

SOAPHA supports the exchange of messages in the following data formats:

- **XML version 2 (MX and MT messages, and files for FileAct service)**
 - SOAPHA supports XML version 2 ONLY. The Partner must use XML version 2 and latest revisions as described in [Alliance Access System Guide](#).

For more information about these formats, see the Alliance Access System Management Guide – “Message Formats Used in AI”. Sample messages for MT and MX are provided in section 6. Please refer to message samples below exchanged with Alliance Access, in scope of the SWIFT solution.

4.1 Reconciliation of Delivery Notification

When the messages are sent to Alliance Access, the application can optionally request for a delivery notification. This will result in Alliance Access receiving a message about the message delivery, which can be reconciled with the original message.

The Partner must demonstrate the capability of their application to process the Delivery Notification Message and to reconcile it with the original message.

A sample Delivery Notification message is provided in [section 6.1.4](#).

4.2 Transmission Notification

A transmission notification is a message representing the result of transmission to SWIFT network. SWIFT performs full syntax and semantic checks before it returns an acknowledgement (ACK). Other checks, such as validity of the sender and the receiver, are also performed. These checks can cause a message to be rejected and a negative acknowledgement (NAK) is returned in response.

The Partner must demonstrate their application capability to process the Transmission Notification Message and reconcile with the original message.

4.3 Message Flow

Alliance Access controls the interactive exchange of SOAP messages between the back-office Applications and Alliance Access using an additional SWIFT-defined protocol on top of the SOAP protocol. This protocol provides a set of primitives to manage the message exchange Sessions, to guarantee and ensure unique delivery of messages.

4.3.1 SOAP Primitives

The following SOAP primitives are used in SOAP messages:

- **Open:** open a session
- **Close:** close a session
- **Put:** send a message to Alliance Access
- **GetAck:** request Alliance Access to send a message that is waiting delivery to the back office Application, and optionally, acknowledge a message received from Alliance Access.
- **Ack:** acknowledge a message received from Alliance:

Please refer the SAA Administration guide – 7.6 for more information about SOAP messages.

5 Swift Compatible Programme SOAPHA testing

To be qualified as SOAPHA compliant, Partners need to send MT, MX or FileAct messages (depending on the label category), and act upon received MT, MX or FileAct messages including Ack/Nack and delivery notifications.

1. The Partner application vendor prepares the MT / MX/FileAct message types as required for the SWIFT Compatible programme. Partners having their own ITB environment must use their PIC in the sender and receiver fields of the message.
2. For individual label requirements, the vendor application must exchange application supported SWIFT Messages. Vendor should refer to label specific technical validation guide for the in-scope SWIFT MT, MX or FileAct Messages.
3. The partner application must include delivery notification instructions while generating the test messages. The partner application must receive the delivery notification information and reconcile with the original message sent to Alliance Access.
4. Alliance Access must be configured to return Alliance Access information. When receiving messages the partner application must accept this information from Alliance Access Info
5. The acknowledgement of transmission is sent through transmission notification message the partner application needs to capture the ACK and NAK received back from SWIFT and reconciled in the partner application. Evidences of reconciliation mechanism (screen dump, event log, dataset extract) will be handled back to SWIFT Qualification service provider.

5.1 Test Evidence

The Partner should extract the following evidences covering the testing period and send them via email to the Validation Service provider for Technical Validation of SOAPHA connectivity test.

Partners with own ITB connectivity

- Alliance Access Event Journal report
- Message File report
- Samples of XMLv2 files (MT, MX,FileAct)
- Screenshots /Configuration details / Log File / Dataset extract / Reports generated from the Partner application evidencing the test execution through Partner application and the reconciliation mechanism against delivery notification and transmission notification for ACK and NAK.

6 Annexure

6.1 Message Flow

The message is sent to the Alliance access from back office application in Put request and messages received from Alliance access to back office application in GetAck response. Message flow of SOAPHA is given in Connection Method of SAA System Management guide -7.6.

6.1.1 Input MT Message in XML v2 format

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:swift:saa:xsd:soapha">
  <soapenv:Header>
    <urn:SAAHeader Id="SAAHeader">
      <urn:SessionToken>bd96d62e-c005-4ec6-b526-645b739</urn:SessionToken>
      <urn:SequenceNumber>9</urn:SequenceNumber>
    </urn:SAAHeader>
  </soapenv:Header>
  <soapenv:Body>
    <urn:Put>
      <DataPDU xmlns="urn:swift:saa:xsd:saa.2.0">
        <Revision>2.0.7</Revision>
        <Header>
          <Message>
            <SenderReference>REF10812031325</SenderReference>
            <MessageIdentifier>fin.540</MessageIdentifier>
            <Format>MT</Format>
            <Sender>
              <BIC12>SPXAINJXXXX</BIC12>
              <FullName>
                <X1>SPXAINJXXXX</X1>
              </FullName>
            </Sender>
            <Receiver>
              <BIC12>SPXAINJXXXX</BIC12>
              <FullName>
                <X1>SPXAINJXXXX</X1>
              </FullName>
            </Receiver>
            <InterfaceInfo>
              <UserReference>REF10812031396</UserReference>
            </InterfaceInfo>
            <NetworkInfo>
              <IsNotificationRequested>true</IsNotificationRequested>
            </NetworkInfo>
            <SecurityInfo>
              <FINSecurityInfo/>
            </SecurityInfo>
          </Message></Header>
          <Body>DQo6MTZSOkdFTkwNCj0yMEM60lNFTUUVLzExLTU0MClTUi0yMDEwDQo6MjNHOk5FV00NCj0xNlI6T
          ELOsw0K0jIwQzo6UE9PTC8vUkVGRVJFTkNFDQo6MzZCOjppUVVJOLy9GQU1ULzEwMDAwMDAsDQo6MTZTOkxJ
          TksNCj0xNlM6R0VOTA0K0jE2UjppUUFEREVUDQo60ThBOjppTRVRULy8yMDEwMTEyMA0K0jM1QjppJU0lOIFV
          TMDAwMDEyMzQ1Ng0KQUJDRkCANCj0xNlI6Rk1BDQo60TRCOjppQTE1TL1hOWVWvRVhDSC9ORVdZT1JLI FNUT0
          NDIEVYQ0hBTkdFDQo6MjJGOjppNSUNPLY9BMDEyDQo60ThBOjppNQVRVLY8yMDEwMTEyMA0K0jE2UzppGSUENC
          j0yMkY6OlJQT1IvL0RFRlINCj0xNlM6VFJBRErFVA0K0jE2UjppGSUFDDQo6MzZCOjppTRVRULy9GQU1ULzEw
          MDAwMDEyMzQ1Ng0KQ1NBRkUvLzEyMzQ1Ng0K0jE2UzppGSUFDDQo6MTZSO1NFVERFVA0K0jIyRj06U1RDTy8
          vT1BBUg0K0jIyRj06U0VUUU8vVfVSTg0K0jE2UjppTRVRQU1RZDQo60TVQOjppCVV1SLy9TV0hRQkVCQg0K0j
          E2UzppTRVRQU1RZDQo6MTZSO1NFVFBsvfKNCj05NVA60lNFTeWvL1NXSFFCRUJCDQo60TdB0jppTQUZFLy8xM
          jMONTYNCj0xNlM6U0VUUFJUWQ0K0jE2UjppTRVRQU1RZDQo60TVQOjppERUFHLY9TV0hRQkVCQg0K0jE2UzppT
          RVRQU1RZDQo6MTZSO1NFVFBsvfKNCj05NUM60lBTRVQvL1VTDQo6MTZTO1NFVFBsvfKNCj0xNlM6U0VUREV
          U</Body><LAU xmlns="urn:swift:saa:xsd:saa.2.0"><Signature xmlns="http://www.w3.org/
          2000/09/xmldsig#"><SignedInfo><CanonicalizationMethod Algorithm="http://
```



```

www.w3.org/2001/10/xml-exc-c14n#" /><SignatureMethod Algorithm="http://
www.w3.org/2001/04/xmldsig-more#hmac-sha256" /><Reference
URI=""><Transforms><Transform Algorithm="http://www.w3.org/2000/09/
xmldsig#enveloped-signature" /></Transforms><DigestMethod Algorithm="http://
www.w3.org/2001/04/xmlenc#sha256" /><DigestValue>Y7oScHnYOUQvni/TSzZbDec+HR
+mWIFH149GXpwj1Ws=</DigestValue></Reference></SignedInfo><SignatureValue>6ynF/
FcwbPsHrtlj3h2agJigdnvpb06hOzKSRGzqkw0=</SignatureValue></Signature></LAU>
</DataPDU>
</urn:Put>
</soapenv:Body>
</soapenv:Envelope>

```

6.1.2 ACK for MT message in XML v2 format

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <SAAHeader Id="" xmlns="urn:swift:saa:xsd:soapha">
      <SessionToken>4fd95b3e-6a30-4cc3-9de6-919fbec</SessionToken>
      <SequenceNumber>5</SequenceNumber>
    </SAAHeader>
  </S:Header>
  <S:Body>
    <GetAckResponse xmlns="urn:swift:saa:xsd:soapha">
      <Saa:DataPDU xmlns:SwSec="urn:swift:snl:ns.SwSec"
xmlns:SwInt="urn:swift:snl:ns.SwInt" xmlns:SwGbl="urn:swift:snl:ns.SwGbl"
xmlns:Sw="urn:swift:snl:ns.Sw" xmlns:Saa="urn:swift:saa:xsd:saa.2.0">
        <Saa:Revision>2.0.7</Saa:Revision>
        <Saa:Header>
          <Saa:TransmissionReport>
            <Saa:SenderReference>REF10812031325</Saa:SenderReference>

<Saa:ReconciliationInfo>120237SPXAINJJAXXX0132144569</Saa:ReconciliationInfo>
          <Saa:NetworkDeliveryStatus>NetworkAcked</Saa:NetworkDeliveryStatus>
          <Saa:OriginalInstanceAddressee>
            <Saa:X1>SPXAINJJXXX</Saa:X1>
          </Saa:OriginalInstanceAddressee>
          <Saa:ReportingApplication>FINInterface</Saa:ReportingApplication>
          <Saa:NetworkInfo>
            <Saa:Priority>Normal</Saa:Priority>
            <Saa:IsPossibleDuplicate>>false</Saa:IsPossibleDuplicate>
            <Saa:IsNotificationRequested>>true</Saa:IsNotificationRequested>
            <Saa:Service>swift.fin</Saa:Service>
            <Saa:Network>FIN</Saa:Network>
            <Saa:SessionNr>0132</Saa:SessionNr>
            <Saa:SeqNr>174569</Saa:SeqNr>
            <Saa:FINNetworkInfo>
              <Saa:MessageSyntaxVersion>1105</Saa:MessageSyntaxVersion>
            </Saa:FINNetworkInfo>
          </Saa:NetworkInfo>
          <Saa:Interventions>
            <Saa:Intervention>
              <Saa:IntvCategory>TransmissionReport</Saa:IntvCategory>
              <Saa:CreationTime>20230117171106</Saa:CreationTime>
              <Saa:OperatorOrigin>SYSTEM</Saa:OperatorOrigin>

<Saa:Contents>{1:F21SPXAINJJAXXX01321446321}{4:{177:1201170921}{451:0}{108:REF10812
031325}}</Saa:Contents>
            </Saa:Intervention>
          </Saa:Interventions>
          <Saa:IsRelatedInstanceOriginal>>true</Saa:IsRelatedInstanceOriginal>
          <Saa:MessageCreator>ApplicationInterface</Saa:MessageCreator>
          <Saa:IsMessageModified>>false</Saa:IsMessageModified>
          <Saa:MessageFields>NoOriginal</Saa:MessageFields>
        </Saa:TransmissionReport>
      </Saa:Header>
    </Saa:DataPDU>
  </GetAckResponse>

```

```

</S:Body>
</S:Envelope>

```

6.1.3 Output MT message in XML v2 format

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <SAAHeader Id="" xmlns="urn:swift:saa:xsd:soapha">
      <SessionToken>4fd95b3e-6a30-4cc3-9de6-919f9bebc</SessionToken>
      <SequenceNumber>6</SequenceNumber>
    </SAAHeader>
  </S:Header>
  <S:Body>
    <GetAckResponse xmlns="urn:swift:saa:xsd:soapha">
      <Saa:DataPDU xmlns:SwSec="urn:swift:snl:ns.SwSec"
xmlns:SwInt="urn:swift:snl:ns.SwInt" xmlns:SwGbl="urn:swift:snl:ns.SwGbl"
xmlns:Sw="urn:swift:snl:ns.Sw" xmlns:Saa="urn:swift:saa:xsd:saa.2.0">
      <Saa:Revision>2.0.7</Saa:Revision>
      <Saa:Header>
        <Saa:Message>
          <Saa:SenderReference>OSPXAINJJXXX54011-540-SR-
2023$12011733734</Saa:SenderReference>
          <Saa:MessageIdentifier>fin.540</Saa:MessageIdentifier>
          <Saa:Format>MT</Saa:Format>
          <Saa:SubFormat>Output</Saa:SubFormat>
          <Saa:Sender>
            <Saa:BIC12>SPXAINJJAXXX</Saa:BIC12>
            <Saa:FullName>
              <Saa:X1>SPXAINJJXXX</Saa:X1>
            </Saa:FullName>
          </Saa:Sender>
          <Saa:Receiver>
            <Saa:BIC12>SPXAINJJAXXX</Saa:BIC12>
            <Saa:FullName>
              <Saa:X1>SPXAINJJXXX</Saa:X1>
            </Saa:FullName>
          </Saa:Receiver>
          <Saa:InterfaceInfo>
            <Saa:UserReference>REF10812031325</Saa:UserReference>
            <Saa:MessageCreator>FINInterface</Saa:MessageCreator>
            <Saa:MessageContext>Original</Saa:MessageContext>
            <Saa:MessageNature>Financial</Saa:MessageNature>
          </Saa:InterfaceInfo>
          <Saa:NetworkInfo>
            <Saa:Priority>Normal</Saa:Priority>
            <Saa:IsPossibleDuplicate>>false</Saa:IsPossibleDuplicate>
            <Saa:Service>swift.fin</Saa:Service>
            <Saa:Network>FIN</Saa:Network>
            <Saa:SessionNr>0132</Saa:SessionNr>
            <Saa:SeqNr>050335</Saa:SeqNr>
            <Saa:FINNetworkInfo>
              <Saa:MessageSyntaxVersion>1106</Saa:MessageSyntaxVersion>
            </Saa:FINNetworkInfo>
          </Saa:NetworkInfo>
          <Saa:CorrespondentInputReference>120237SPXAINJJAXXX0132144569</Saa:CorrespondentInputReference>
          <Saa:CorrespondentInputTime>20230117094100</Saa:CorrespondentInputTime>
            <Saa:LocalOutputTime>20230117094100</Saa:LocalOutputTime>
            <Saa:FINUserHeader>{108:REF10812031325}</Saa:FINUserHeader>
          </Saa:FINNetworkInfo>
        </Saa:Header>
      </Saa:DataPDU>
    </GetAckResponse>
  </S:Body>
</S:Envelope>

```

```
<Saa:MACSignatureValue>
  <SwSec:Signature>
    <SwSec:SignedInfo>
      <Sw:Reference>

<Sw:DigestValue>731IJR0Gj7ytVeL06pGLYAwXOLh7zH7RwV9LziMGWoc=</Sw:DigestValue>
  </Sw:Reference>
</SwSec:SignedInfo>
<SwSec:SignatureValue>PEMF@Proc-Type: 4,MIC-ONLY

Content-Domain: RFC822
EntrustFile-Version: 2.0
Originator-DN: cn=finlspxainjj,o=spxainjj,o=swift
Orig-SN: 1307136963
MIC-Info: SHA256, RSA,
  nruZ0cBuZhyHUxjDaRisq6gu3EpBgnBWiwzGrYrzYtKAM9oPLEY9t2igl0lZLrBT
  Npy1BbuYtF5Z90uc5K3EePmuTjDY5W5tTZbNPIKYj4oknat6OFCA+cIPiuaUOCGg
  3gputBRdSrgQ77AOCChuJQkV0/LBCoXYxr8rDWvVpSG+jAky8l2BakiWyGIfOLn4h
  YI2OpdqapQNjPcUcweiQx8/LzEjH8m4XPZA5gx6r7vmuVNxga5EGt9ULyA/l++nW
  3lUV05BaJj0d75/FOCamBTpSR1lpScw01E00P58Q8sPxAEmsr09+e3C5p2QkXwJt
  1clC9gc6SvTHr60AP4IO1w==</SwSec:SignatureValue>
  <SwSec:KeyInfo>

<SwSec:SignDN>cn=finlspxainjj,o=spxainjj,o=swift</SwSec:SignDN>

<SwSec:CertPolicyId>1.3.21.6.2</SwSec:CertPolicyId>
  </SwSec:KeyInfo>
  <SwSec:Manifest>
    <Sw:Reference>
      <Sw:DigestRef>M</Sw:DigestRef>

<Sw:DigestValue>tUfIIUJa6uN5oFgS5ehyfE30RDpd5G3sF14CoeTBvho=</Sw:DigestValue>
  </Sw:Reference>
  <Sw:Reference>
    <Sw:DigestRef>Sw.E2S</Sw:DigestRef>

<Sw:DigestValue>p4a3bGnoVDCDUBy6BHUUg8czj8ru32ROmxj9warz65M=</Sw:DigestValue>
  </Sw:Reference>
  </SwSec:Manifest>
  </SwSec:Signature>
  </Saa:MACSignatureValue>
  </Saa:FINSecurityInfo>
  </Saa:SecurityInfo>
  </Saa:Message>
</Saa:Header>

<Saa:Body>DQo6MTZSOkdFTkwNCjoyMEM601NFTUUVLzExLTU0MC1TUi0yMDEwDQo6MjNHOk5FV00NCjoxN
1I6TElOSw0K0jIwQzo6UE9PTC8vUkVGRVJFTkNFDQo6MzZCOjpuVVJOLy9GQU1ULzEwMDAwMDAsDQo6MTZT
OkxJTksNCjoxNlM6R0VOTA0K0jE2UjpuUkFEREVUDQo60ThBOjptRVRULy8yMDEwMTEyMA0K0jM1QjpuU01
OIFVTMDAwMDEyMzQ1Ng0KQUJDRcANCjoxNlI6Rk1BDQo60TRCOjpuU01TL1hOWVmvRVhDSC9ORVdZT1JLIF
NUTONDIEVYQ0hBTkdFDQo6MjJGOjpuNSUNPLY9BMDEyDQo60ThBOjpuNQRVRLy8yMDEwMTEyMA0K0jE2UzpuGS
UENCjoyMkY6OlJQT1IvL0RFRlINCjoxNlM6VFJBRERFVA0K0jE2UjpuGSUFDDQo6MzZCOjpuTRVRULy9GQU1U
LzEwMDAwMwCwNCjoxN0E601NBRkUvLzEyMzQ1Ng0K0jE2UzpuGSUFDDQo6MTZS01NFVERFVA0K0jIyRjoxNlR
DTy8vTlBBUg0K0jIyRjoxNlR0VUUVi8vVfVSTg0K0jE2UjpuTRVRQULRZDQo60TVQOjpuCVVlSLy9TV0hrQkVCQg
0K0jE2UzpuTRVRQULRZDQo6MTZS01NFVFBsvFkNCjoxNVA601NFTewL1NXSFFCRUJCDQo60TdB0jpuTQUZFL
y8xMjM0NTYncjoxNlM6U0VUUFJWUQ0K0jE2UjpuTRVRQULRZDQo60TVQOjpuERUFHLY9TV0hrQkVCQg0K0jE2
UzpuTRVRQULRZDQo6MTZS01NFVFBsvFkNCjoxNUM601BTRVQvL1VTDQo6MTZT01NFVFBsvFkNCjoxNlM6U0V
UREVU</Saa:Body>
  </Saa:DataPDU>
  </GetAckResponse>
</S:Body>
</S:Envelope>
```

6.1.4 Delivery Notification of MT Message in XML v2 format

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <SAAHeader Id="" xmlns="urn:swift:saa:xsd:soapha">
      <SessionToken>4fd95b3e-6a30-4cc3-9de6-919fbefbc</SessionToken>
      <SequenceNumber>7</SequenceNumber>
    </SAAHeader>
  </S:Header>
  <S:Body>
    <GetAckResponse xmlns="urn:swift:saa:xsd:soapha">
      <Saa:DataPDU xmlns:SwSec="urn:swift:snl:ns.SwSec"
xmlns:SwInt="urn:swift:snl:ns.SwInt" xmlns:SwGbl="urn:swift:snl:ns.SwGbl"
xmlns:Sw="urn:swift:snl:ns.Sw" xmlns:Saa="urn:swift:saa:xsd:saa.2.0">
        <Saa:Revision>2.0.7</Saa:Revision>
        <Saa:Header>
          <Saa:DeliveryNotification>

<Saa:ReconciliationInfo>120237SPXAINJJAXXX0132144569</Saa:ReconciliationInfo>

<Saa:ReceiverDeliveryStatus>RcvDelivered</Saa:ReceiverDeliveryStatus>
          <Saa:MessageIdentifier>fin.011</Saa:MessageIdentifier>
          <Saa:Receiver>
            <Saa:BIC12>SPXAINJJAXXX</Saa:BIC12>
            <Saa:FullName>
              <Saa:X1>SPXAINJJXXX</Saa:X1>
            </Saa:FullName>
          </Saa:Receiver>
          <Saa:InterfaceInfo>
            <Saa:MessageCreator>FINInterface</Saa:MessageCreator>
            <Saa:MessageContext>Original</Saa:MessageContext>
            <Saa:MessageNature>Network</Saa:MessageNature>
          </Saa:InterfaceInfo>
          <Saa:NetworkInfo>
            <Saa:Priority>System</Saa:Priority>
            <Saa:IsPossibleDuplicate>>false</Saa:IsPossibleDuplicate>
            <Saa:Service>swift.fin</Saa:Service>
            <Saa:Network>FIN</Saa:Network>
            <Saa:SessionNr>0132</Saa:SessionNr>
            <Saa:SeqNr>050336</Saa:SeqNr>
            <Saa:FINNetworkInfo>
              <Saa:MessageSyntaxVersion>1105</Saa:MessageSyntaxVersion>
            </Saa:FINNetworkInfo>
          </Saa:NetworkInfo>
          <Saa:CorrespondentInputReference>120117DYDYXXXXHXXX0001272755</Saa:CorrespondentInputReference>

<Saa:CorrespondentInputTime>20230117084100</Saa:CorrespondentInputTime>
            <Saa:LocalOutputTime>20230117094200</Saa:LocalOutputTime>
            <Saa:SystemOriginated>{SYS:}</Saa:SystemOriginated>
          </Saa:FIN>
        </Saa:NetworkInfo>
        <Saa:SecurityInfo>
          <Saa:FINSecurityInfo>
            <Saa:ChecksumResult>Success</Saa:ChecksumResult>
            <Saa:ChecksumValue>BF2859C0C4A9</Saa:ChecksumValue>
          </Saa:FINSecurityInfo>
        </Saa:SecurityInfo>
      </Saa:DeliveryNotification>
        </Saa:Header>

<Saa:Body>ezE3NTowOTQxfXsXMDY6MTIwMTE3U1BYQU1OSkpBWFhYMDEzMjE0NDU2OX17MTA4O1JFRjEwO
DEyMDMxMzI1fXsXNzU6MDk0MX17MTA3OjEyMDEEN1NQWFEFJTkpKQVhYWDAxMzIwNTAzMzV9</Saa:Body>
          </Saa:DataPDU>
        </GetAckResponse>
      </S:Body>
    </S:Envelope>

```

6.1.5 Input MX message in XML v2 format

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:swift:saa:xsd:soapha">
  <soapenv:Header>
    <urn:SAAHeader Id="SAAHeader">
      <urn:SessionToken>c44ac82b-b062-45b0-9812-a5d8471c</urn:SessionToken>
      <urn:SequenceNumber>11</urn:SequenceNumber>
    </urn:SAAHeader>
  </soapenv:Header>
  <soapenv:Body>
    <urn:Put>
      <DataPDU xmlns="urn:swift:saa:xsd:saa.2.0">
        <Revision>2.0.7</Revision>
        <Header>
          <Message>
            <SenderReference>REF10812031328</SenderReference>
            <MessageIdentifier>setr.010.001.03</MessageIdentifier>
            <Format>MX</Format>
            <Sender>
              <DN>o=spxainjj,o=swift</DN>
              <FullName>
                <X1>SPXAINJJXXX</X1>
              </FullName>
            </Sender>
            <Receiver>
              <DN>o=spxainjj,o=swift</DN>
              <FullName>
                <X1>SPXAINJJXXX</X1>
              </FullName>
            </Receiver>
            <InterfaceInfo>
              <UserReference>REF10812031333</UserReference>
            </InterfaceInfo>
            <NetworkInfo>
              <Service>swift.if.ia!x</Service>
            </NetworkInfo>
          </Message></Header>
          <Body><AppHdr
xmlns="urn:swift:xsd:$ahV10"><MsgRef>AppHdrMyRef67_08Dec</MsgRef><CrDate>2023-01-
23T11:15:12</CrDate></AppHdr><Document
xmlns="urn:swift:xsd:setr.010.001.03">
            <SbcptOrdrV03>
              <MsgId>
                <Id>SubsOrder001</Id>
                <CreDtTm>2023-01-23T11:15:12.0Z</CreDtTm>
              </MsgId>
              <MltplOrdrDtls>
                <InvstmtAcctDtls>
                  <AcctId>
                    <Prtry>
                      <Id>BE8982190</Id>
                    </Prtry>
                  </AcctId>
                </InvstmtAcctDtls>
                <IndvOrdrDtls>
                  <OrdrRef>ID8965REF2768</OrdrRef>
                  <FinInstrmDtls>
                    <Id>
                      <ISIN>BE1234567891</ISIN>
                    </Id>
                  </FinInstrmDtls>
                  <NetAmt Ccy="EUR">1001</NetAmt>
                  <PhysDlvryInd>true</PhysDlvryInd>
                  <PhysDlvryDtls><Nm>John Doe</Nm><Adr><StrtNm>Avenue
Adele</StrtNm><BldgNb>1</BldgNb><PstCd>B-
1310</PstCd><Ctry>BE</Ctry></Adr></PhysDlvryDtls></IndvOrdrDtls>
                </MltplOrdrDtls>
              </SbcptOrdrV03>
            </Document>
          </Body>
        </DataPDU>
      </urn:Put>
    </soapenv:Body>
  </soapenv:Envelope>

```

```

    </SbcptOrdrV03>
  </Document></Body>
  <LAU xmlns="urn:swift:saa:xsd:saa.2.0"><Signature xmlns="http://www.w3.org/
2000/09/xmlsig#"><SignedInfo><CanonicalizationMethod Algorithm="http://
www.w3.org/2001/10/xml-exc-c14n#" /><SignatureMethod Algorithm="http://
www.w3.org/2001/04/xmlsig-more#hmac-sha256" /><Reference
URI=""><Transforms><Transform Algorithm="http://www.w3.org/2000/09/
xmlsig#enveloped-signature" /></Transforms><DigestMethod Algorithm="http://
www.w3.org/2001/04/xmlenc#sha256" /><DigestValue>Y7oScHnYOUQvni/TSzZbDec+HR
+mWIFH149GXpwj1Ws=</DigestValue></Reference></SignedInfo><SignatureValue>6ynF/
FcwbPsHrtlj3h2agJigdnvvpb06hOzKSRGzqkw0=</SignatureValue></Signature></LAU>
</DataPDU>
</urn:Put>
</soapenv:Body>
</soapenv:Envelope>

```

6.1.6 ACK for MX Message in XML v2 format

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <SAAHeader Id="" xmlns="urn:swift:saa:xsd:soapha">
      <SessionToken>2b4ea76d-9003-466d-9c81-33eea2cd</SessionToken>
      <SequenceNumber>29</SequenceNumber>
    </SAAHeader>
  </S:Header>
  <S:Body>
    <GetAckResponse xmlns="urn:swift:saa:xsd:soapha">
      <Saa:DataPDU xmlns:SwSec="urn:swift:snl:ns.SwSec"
xmlns:SwInt="urn:swift:snl:ns.SwInt" xmlns:SwGbl="urn:swift:snl:ns.SwGbl"
xmlns:Sw="urn:swift:snl:ns.Sw" xmlns:Saa="urn:swift:saa:xsd:saa.2.0">
        <Saa:Revision>2.0.7</Saa:Revision>
        <Saa:Header>
          <Saa:TransmissionReport>
            <Saa:SenderReference>REF10812031329</Saa:SenderReference>
            <Saa:ReconciliationInfo>swi00001-2023-01-
17T11:53:20.1460.307385Z</Saa:ReconciliationInfo>
            <Saa:NetworkDeliveryStatus>NetworkAacked</Saa:NetworkDeliveryStatus>
            <Saa:OriginalInstanceAddressee>
              <Saa:X1>SPXAINJXXX</Saa:X1>
            </Saa:OriginalInstanceAddressee>
          </Saa:Header>
          <Saa:ReportingApplication>SWIFTNetInterface</Saa:ReportingApplication>
          <Saa:NetworkInfo>
            <Saa:Priority>Normal</Saa:Priority>
            <Saa:IsPossibleDuplicate>>false</Saa:IsPossibleDuplicate>
            <Saa:Service>swift.if.ia!x</Saa:Service>
            <Saa:Network>SWIFTNet</Saa:Network>
            <Saa:SessionNr>000046</Saa:SessionNr>
            <Saa:SeqNr>000000002</Saa:SeqNr>
            <Saa:SWIFTNetNetworkInfo>
              <Saa:RequestType>setr.010.001.03</Saa:RequestType>
              <Saa:SWIFTRef>swi00001-2023-01-
17T11:53:20.1460.307385Z</Saa:SWIFTRef>
              <Saa:SNLRef>SNL02023-2023-01-
17T11:53:11.7312.009650Z</Saa:SNLRef>
              <Saa:Reference>a6897c3e-fbaf-4b99-9c98-
0a1b960cac0b</Saa:Reference>
              <Saa:SnFInputTime>0137:2023-01-
17T11:53:20</Saa:SnFInputTime>
              <Saa:ResponsePayloadAttributes>
                <Saa:PayloadAttribute>
                  <Saa:Name>type</Saa:Name>
                  <Saa:Value>swift.emptyresponse</Saa:Value>
                </Saa:PayloadAttribute>
              </Saa:ResponsePayloadAttributes>
            </Saa:SWIFTNetNetworkInfo>
          </Saa:NetworkInfo>
        </Saa:DataPDU>
      </GetAckResponse>
    </S:Body>
  </S:Envelope>

```

```

        <Saa:Interventions>
          <Saa:Intervention>
            <Saa:IntvCategory>TransmissionReport</Saa:IntvCategory>
            <Saa:CreationTime>20120117172311</Saa:CreationTime>
            <Saa:OperatorOrigin>SYSTEM</Saa:OperatorOrigin>
            <Saa:Contents>
              <AckNack xmlns="" xmlns:ns7="urn:swift:saa:xsd:soapha">
<PseudoAckNack>{1:F21SPXAINJJAXXX000046000000002}{4:{177:1201171723}{451:0}{311:ACK
}{108:REF10812031329}}</PseudoAckNack>
              </AckNack>
            </Saa:Contents>
          </Saa:Intervention>
        </Saa:Interventions>

<Saa:IsRelatedInstanceOriginal>true</Saa:IsRelatedInstanceOriginal>
  <Saa:MessageCreator>ApplicationInterface</Saa:MessageCreator>
  <Saa:IsMessageModified>false</Saa:IsMessageModified>
  <Saa:MessageFields>NoOriginal</Saa:MessageFields>
</Saa:TransmissionReport>
</Saa:Header>
</Saa:DataPDU>
</GetAckResponse>
</S:Body>
</S:Envelope>

```

6.1.7 Output of MX Message in XML v2

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <SAAHeader Id="" xmlns="urn:swift:saa:xsd:soapha">
      <SessionToken>2b4ea76d-9003-466d-9c81-33eea2cd</SessionToken>
      <SequenceNumber>30</SequenceNumber>
    </SAAHeader>
  </S:Header>
  <S:Body>
    <GetAckResponse xmlns="urn:swift:saa:xsd:soapha">
      <Saa:DataPDU xmlns:SwSec="urn:swift:snl:ns.SwSec"
xmlns:SwInt="urn:swift:snl:ns.SwInt" xmlns:SwGbl="urn:swift:snl:ns.SwGbl"
xmlns:Sw="urn:swift:snl:ns.Sw" xmlns:Saa="urn:swift:saa:xsd:saa.2.0">
        <Saa:Revision>2.0.7</Saa:Revision>
        <Saa:Header>
          <Saa:Message>
<Saa:SenderReference>OSPXAINJJXXX010REF10812031329$120117</Saa:SenderReference>
          <Saa:MessageIdentifier>setr.010.001.03</Saa:MessageIdentifier>
          <Saa:Format>MX</Saa:Format>
          <Saa:SubFormat>Output</Saa:SubFormat>
          <Saa:Sender>
            <Saa:DN>o=spxainjj,o=swift</Saa:DN>
            <Saa:FullName>
              <Saa:X1>SPXAINJJXXX</Saa:X1>
            </Saa:FullName>
          </Saa:Sender>
          <Saa:Receiver>
            <Saa:DN>o=spxainjj,o=swift</Saa:DN>
            <Saa:FullName>
              <Saa:X1>SPXAINJJXXX</Saa:X1>
            </Saa:FullName>
          </Saa:Receiver>
          <Saa:InterfaceInfo>
            <Saa:UserReference>REF10812031329</Saa:UserReference>
            <Saa:MessageCreator>SWIFTNetInterface</Saa:MessageCreator>
            <Saa:MessageContext>Original</Saa:MessageContext>
            <Saa:MessageNature>Financial</Saa:MessageNature>

```

```

</Saa:InterfaceInfo>
<Saa:NetworkInfo>
  <Saa:Priority>Normal</Saa:Priority>
  <Saa:IsPossibleDuplicate>>false</Saa:IsPossibleDuplicate>
  <Saa:Service>swift.if.ia!x</Saa:Service>
  <Saa:Network>SWIFTNet</Saa:Network>
  <Saa:SessionNr>002290</Saa:SessionNr>
  <Saa:SeqNr>000000111</Saa:SeqNr>
  <Saa:SWIFTNetNetworkInfo>
    <Saa:RequestType>setr.010.001.03</Saa:RequestType>
    <Saa:SWIFTRef>swi00001-2023-01-
17T11:53:20.1460.307385Z</Saa:SWIFTRef>
    <Saa:SNLRef>SNL02013-2023-01-
17T11:53:11.7312.009650Z</Saa:SNLRef>
    <Saa:Reference>a6897c3e-fbaf-4b99-9c98-
0a1b960cac0b</Saa:Reference>
    <Saa:SnFQueueName>spxainjj_msg!x</Saa:SnFQueueName>
    <Saa:SnFInputTime>0137:2023-01-
17T11:53:20</Saa:SnFInputTime>
    <Saa:SnFDeliveryTime>2023-01-
17T11:53:20Z</Saa:SnFDeliveryTime>
    <Saa:ValidationDescriptor>
      <SwInt:ValResult>Success</SwInt:ValResult>
    </Saa:ValidationDescriptor>
  </Saa:SWIFTNetNetworkInfo>
</Saa:NetworkInfo>
<Saa:SecurityInfo>
  <Saa:SWIFTNetSecurityInfo>

<Saa:SignerDN>cn=fin1spxainjj,o=spxainjj,o=swift</Saa:SignerDN>
  <Saa:NRTYPE>SvcMand</Saa:NRTYPE>
  <Saa:SignatureResult>Success</Saa:SignatureResult>
  <Saa:SignatureValue>
    <SwSec:CryptoInternal>

<SwSec:CipherKey>UEVNRkbQcm9jLVR5cGU6IDQsTU1DLU90TFkNCkNvbnRlbnQtRG9tYWluOiBSRkM4Mj
INCkVudHJlc3RGaWxlLVZlcnNpb246IDIuMA0KT3JpZ2luYXRvcilETjogY249ZmluMXNweGFpbmpqLG89c
3B4YWluamosbz1zd2lmdA0KT3JpZy1TTjogMTMwNzEzZm00KTU1DLUluZm86IFNlQTI1NiwiU1NBLA0K
IHhuRGluOW1ad3RCTjNvTVBrc3o0cjl5d2JYM3VVQW11THlZOUJsRXlUTDdJSEhHK0hKVW1ZCHftODRFSGI
rMwNCiBiTkYyR0pdzXJXWFlaS0wzTXpUVkhrWk5UUFpSU2xzZnN1aHNDRmtKSlVGZkVoVNOQ3ZOeFJUSj
BSdHhwMjVPDQogUG4xUit2V2FocEpOCHF2ald5aUpEMDlObFhtTWZzMjBvaDJQVmtZbktkYzNCZTEzT1NTM
nhvZS9oNC9jdkFwRA0KIHR4VmVNMWF4aEVMaHFJN1c3bFlkK1RSSDg1UUduZ0JCU092ZCtpcmhKChZVTmpP
L0svdDk1VU54ZlBOUzFLMXGNCiBwd0lQaUx6NzhhYzlrVlJMM3RHZHVdajZmYU9RZGJlMGVka2IwYVpTREx
JMDNEcXE3NWx2eGtYdzkwrHd6am5SDQogVXJfcVFWSEY0T3hJUHN1NUFJWFhLdz09DQo=/<SwSec:Cipher
Key>

    <SwSec:CryptoProtocol>4.0:3.0</SwSec:CryptoProtocol>
  </SwSec:CryptoInternal>
  <SwSec:CryptoDescriptor>
    <SwSec:MemberRef>RequestPayload</SwSec:MemberRef>
    <SwSec:MemberRef>RequestHeader</SwSec:MemberRef>

<SwSec:MemberRef>RequestDescriptor.SwiftRequestRef</SwSec:MemberRef>

<SwSec:SignDN>cn=fin1spxainjj,o=spxainjj,o=swift</SwSec:SignDN>
  <SwSec:CertPolicyId>1.3.21.6.2</SwSec:CertPolicyId>
  </SwSec:CryptoDescriptor>
</Saa:SignatureValue>
</Saa:SWIFTNetSecurityInfo>
</Saa:SecurityInfo>
</Saa:Message>
</Saa:Header>
<Saa:Body>
  <AppHdr:AppHdr xmlns="urn:swift:xsd:$ahV10"
xmlns:AppHdr="urn:swift:xsd:$ahV10">
    <MsgRef>AppHdrMyRef67_02Jan</MsgRef>
    <CrDate>2023-06-23T11:15:12</CrDate>
  </AppHdr:AppHdr>
  <Document:Document xmlns="urn:swift:xsd:setr.010.001.03"
xmlns:Document="urn:swift:xsd:setr.010.001.03">

```



```

    <SbcptOrdrV03>
      <MsgId>
        <Id>SubsOrder001</Id>
        <CreDtTm>2023-06-23T11:15:12.0Z</CreDtTm>
      </MsgId>
      <MltplOrdrDtls>
        <InvstmtAcctDtls>
          <AcctId>
            <Prtry>
              <Id>BE8982189</Id>
            </Prtry>
          </AcctId>
        </InvstmtAcctDtls>
        <IndvOrdrDtls>
          <OrdrRef>ID8965REF2767</OrdrRef>
          <FinInstrmDtls>
            <Id>
              <ISIN>BE1234567890</ISIN>
            </Id>
          </FinInstrmDtls>
          <NetAmt Ccy="EUR" xmlns=""
xmlns:ns9="urn:swift:xsd:setr.010.001.03">1000</NetAmt>
          <PhysDlvryInd>true</PhysDlvryInd>
          <PhysDlvryDtls>
            <Nm>John Doe</Nm>
            <Adr>
              <StrtNm>Avenue
Adele</StrtNm>
              <BldgNb>1</BldgNb>
              <PstCd>B-1310</PstCd>
              <Ctry>BE</Ctry>
            </Adr>
          </PhysDlvryDtls>
        </IndvOrdrDtls>
      </MltplOrdrDtls>
    </SbcptOrdrV03>
  </Document:Document>
</Saa:Body>
</Saa:DataPDU>
</GetAckResponse>
</S:Body>
</S:Envelope>

```

6.1.8 Delivery Notification of MX Message in XML v2

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <SAAHeader Id="" xmlns="urn:swift:saa:xsd:soapha">
      <SessionToken>2b4ea76d-9003-466d-9c81-33eea2cd</SessionToken>
      <SequenceNumber>31</SequenceNumber>
    </SAAHeader>
  </S:Header>
  <S:Body>
    <GetAckResponse xmlns="urn:swift:saa:xsd:soapha">
      <Saa:DataPDU xmlns:SwSec="urn:swift:snl:ns.SwSec"
xmlns:SwInt="urn:swift:snl:ns.SwInt" xmlns:SwGbl="urn:swift:snl:ns.SwGbl"
xmlns:Sw="urn:swift:snl:ns.Sw" xmlns:Saa="urn:swift:saa:xsd:saa.2.0">
        <Saa:Revision>2.0.7</Saa:Revision>
        <Saa:Header>
          <Saa:DeliveryNotification>
            <Saa:ReconciliationInfo>swi00001-2023-01-
17T11:53:20.1460.307385Z</Saa:ReconciliationInfo>
          </Saa:Header>
        <Saa:ReceiverDeliveryStatus>RcvDelivered</Saa:ReceiverDeliveryStatus>
        <Saa:MessageIdentifier>Delivery
Notification</Saa:MessageIdentifier>
        <Saa:InterfaceInfo>
          <Saa:MessageCreator>SWIFTNetInterface</Saa:MessageCreator>

```

```
        <Saa:MessageContext>Original</Saa:MessageContext>
        <Saa:MessageNature>Network</Saa:MessageNature>
    </Saa:InterfaceInfo>
    <Saa:NetworkInfo>
        <Saa:Priority>Normal</Saa:Priority>
        <Saa:IsPossibleDuplicate>>false</Saa:IsPossibleDuplicate>
        <Saa:Network>SWIFTNet</Saa:Network>
        <Saa:SessionNr>006080</Saa:SessionNr>
        <Saa:SeqNr>000000080</Saa:SeqNr>
    </Saa:NetworkInfo>
</Saa:DeliveryNotification>
</Saa:Header>
<Saa:Body>
    <Sw:NotifySnFRequestHandle>
        <Sw:SnFRef>swi00001-2023-01-17T11:53:20.1460.307385Z</Sw:SnFRef>
        <Sw:SnFRefType>InterAct</Sw:SnFRefType>
        <Sw:AcceptStatus>Accepted</Sw:AcceptStatus>
        <Sw:AckSwiftTime>2023-01-17T11:53:24Z</Sw:AckSwiftTime>
        <Sw:AckInfo>Acked</Sw:AckInfo>
    </Sw:NotifySnFRequestHandle>
</Saa:Body>
</Saa:DataPDU>
</GetAckResponse>
</S:Body>
</S:Envelope>
```

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