



SWIFT Certified Applications

Alliance Access Integration – SOAP Host Adaptor

Technical Qualification Test 2018

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 Certified 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 certification of a product, and SWIFT users that look after an overview of the SWIFT Certified Applications contents. The audience should be familiar with SWIFT portfolio from a technical and a business perspective.

1.3 SWIFT Certified Application program

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

Each SWIFT Certified 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 7.2](#)
- [Alliance access system management guide](#)
- [sam_aaccess_headers](#)

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 Certified Application Validation

Support of SOAPHA is one of the qualification criteria for granting the SWIFT Certified 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](#).

As an alternative, Wipro Testing Services offers a test service for connecting to SWIFT ITB. Using this service, the Partner can connect to SWIFT ITB. The testing service allows testing application connectivity with Alliance Access AFT, MQHA and SOAPHA. Please go to [section 4](#), if you wish to use this service.

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 7.2. Please note that Alliance access 7.2 can be used for MT and MX using XML V2. FileAct with SOAPHA will work with SAA 7.2 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 - System Management Guide](#) and [alliance access 7.2](#) 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 System Management Guide](#) – Managing Message Partner Profiles

A screenshot of sample Message Partner configuration is provided in [section 7](#).

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_SWIFTNet` Queue
- 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 Wipro Testing Service

- The vendor needs to liaise with Wipro to enrol into Wipro Testing Services and test the exchange of messages through this service

- The vendor application should be able to connect and exchange messages using SOAP protocol
- The vendor will be provided with a PIC (Partner ID Code)
- This PIC must be used in the sender and receiver block for exchanging messages over SWIFT ITB
- The Vendor needs to configure the SOAP Configuration parameter details provided by Wipro in the application
- The connectivity is very similar to connection to own environment, except for the reason that this connectivity is established outside Vendor's internal network environment and hence necessary permission needs to be obtained upfront from Vendor's IT Security team for using Port 48200 over internet.
- Once the connectivity is established, the vendor can exchange the messages.
- 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.

5 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 7. Please refer to sam_access_headers.pdf document for messages samples exchanged with Alliance Access, in scope of the SWIFT solution.

5.1 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 7](#).

5.2 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.

5.3 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..

5.3.1 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 system management guide – 7.2 for more information about SOAP messages.

6 SWIFT Certified 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 Certified programme. Partners having their own ITB environment must use their PIC in the sender and receiver fields of the message. The Partner using Wipro Testing Services for connecting to ITB must use the PIC provided by Wipro in the sender and receiver field 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. When using Wipro Testing Services for connecting to ITB, the message format and acknowledgement format for receiving Alliance Access information must be agreed in advance.
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.

6.1 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

Partners testing through Wipro Testing Service

- Alliance Access Event Journal report and Message File report will be generated by Wipro
- The Partner has to provide the exchanged 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

7 Annexure

7.1 Sample Message Partner Configuration

Direction: From Message Partner to Alliance Access

1. For MT, MX and FileAct Full mode

Message Partner Details - MPA15SOAPIN Help

Configuration **Monitoring**

Name: MPA15SOAPIN
 Description: SOAP IN A15
 Status: Enabled
 Partner Id: 204

Allowed Direction: From Message Partner
 Connection Method: SOAP

SOAP

Data Format: XML Version 2 Revision 7
 FileAct Mode: Full
 Window Size: 5
 Profile Name: R7.0_MsgPartner

Local Authentication

Reception

FIFO
 Validation level: No Validation

Close Refresh Export Print Disable Previous Next

2. For MT, MX and FileAct Mixed mode

Message Partner Details - MPA15SOAPIN
Help

Configuration
Monitoring

Name

Description

Status Enabled

Partner Id 204

Allowed Direction

Connection Method

SOAP

Data Format

FileAct Mode

Window Size

Profile Name

Local Authentication

Reception

Input Attachment Path

FileAct Payload Timeout (seconds)

Close
Refresh
Export
Print
Disable
Previous
Next

3. Reception Tab(for full and mixed mode)

Message Partner Details - MPA15SOAPIN
Help

Configuration
Monitoring

Connection Method SOAP

SOAP

Data Format XML Version 2 Revision 7

FileAct Mode Mixed

Window Size 5

Profile Name R7.0_MsgPartner

Local Authentication

Reception

Input Attachment Path

FileAct Payload Timeout (seconds) 0

FIFO

Validation level No Validation

Message modification Allowed

Unit to be assigned None

Emission expiry Days

Routing Dispose message in Ready To Send

Close
Refresh
Export
Print
Disable
Previous
Next

Direction: From Alliance Access to Message Partner

1. For MT, MX and FileAct Full mode

Message Partner Details - MPA15SOAPOUT Help

Configuration | **Monitoring**

Name: MPA15SOAPOUT
Description: SOAP out A15
Status: Enabled
Partner Id: 203

Allowed Direction: To Message Partner
Connection Method: SOAP

SOAP

Data Format: XML Version 2 Revision 7
FileAct Mode: Full
Window Size: 5
Profile Name: R7.1_MsgPartner

Local Authentication

Emission

Available	Selected
FileActAcks FileActReceived FileActReject	EPA15SOAPOUT

Close Refresh Export Print Disable Previous Next

2. For MT, MX and FileAct Mixed mode

Message Partner Details - MPA15SOAPOUT
Help

Configuration
Monitoring

Name

Description

Status Enabled

Partner Id 203

Allowed Direction

Connection Method

SOAP

Data Format

FileAct Mode

Window Size

Profile Name

Local Authentication

Emission

Available		Selected
FileActAcks	>>	EPA15SOAPOUT
FileActReceived	>>	
FileActReject	>>	

Close
Refresh
Export
Print
Disable
Previous
Next

3. Emission Tab(for full and mixed mode)

Message Partner Details - MPA15SOAPOUT Help

Configuration Monitoring

SOAP

Data Format: XML Version 2 Revision 7

FileAct Mode: Full

Window Size: 5

Profile Name: R7.1_MsgPartner

Local Authentication

Emission

Exit Points

Available

- FileActAcks
- FileActReceived
- FileActReject
- MXToBeInvestigated
- ToBeInvestigated

Selected

- EPA15SOAPOUT

Transfer Original Message with Notification: Always

Original Message Format: Complete Text

Include all FIN Blocks:

Increment Sequence Number across Sessions:

Close Refresh Export Print Disable Previous Next

7.2 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 Appendix F SOAP – Connection Method of SAA System Management guide -7.2.

7.2.1 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>
          </Message>
        </Header>
      </DataPDU>
    </urn:Put>
  </soapenv:Body>
</soapenv:Envelope>
```



```

<Saa:ReconciliationInfo>120187SPXAINJJAXXX0132144569</Saa:ReconciliationInfo>
  <Saa:NetworkDeliveryStatus>NetworkAacked</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>20180117171106</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>

```

7.2.3 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-
2018$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:CorrespondentInputReference>120187SPXAINJJAXXX0132144569</Saa:CorrespondentInputReference>

<Saa:CorrespondentInputTime>20180117094100</Saa:CorrespondentInputTime>
  <Saa:LocalOutputTime>20180117094100</Saa:LocalOutputTime>
  <Saa:FINUserHeader>{108:REF10812031325}</Saa:FINUserHeader>
  </Saa:FINNetworkInfo>
</Saa:NetworkInfo>
<Saa:SecurityInfo>
  <Saa:RMAResult>Success</Saa:RMAResult>
  <Saa:FINSecurityInfo>
    <Saa:ChecksumResult>Success</Saa:ChecksumResult>
    <Saa:ChecksumValue>D37613267275</Saa:ChecksumValue>
    <Saa:MACResult>Success</Saa:MACResult>
    <Saa:MACSignatureValue>
      <SwSec:Signature>
        <SwSec:SignedInfo>
          <SwSec:Reference>
            <Sw:DigestValue>731IJR0Gj7ytVeL06pGLYAwXOLh7zh7RwV9LziMGWoc=</Sw:DigestValue>
              </Sw:Reference>
            </SwSec:SignedInfo>
          <SwSec:SignatureValue>PEMF@Proc-Type: 4,MIC-ONLY
            </SwSec:SignatureValue>
        </SwSec:Signature>
      </SwSec:SignatureValue>
    </Saa:MACSignatureValue>
  </Saa:FINSecurityInfo>
</Saa:SecurityInfo>

Content-Domain: RFC822
EntrustFile-Version: 2.0
Originator-DN: cn=fin1spxainjj,o=spxainjj,o=swift
Orig-SN: 1307136963
MIC-Info: SHA256, RSA,
  nruZocBuZhyHUxjDaRisq6gu3EpBgnBWiwzGrYrzYtKAM9oPLEY9t2igl0lZLrBT
  NpylBbuYtF5Z90uc5K3EePmuTjDY5W5tTZbNPIKYj4oknat6OFCA+cIPiuaUOCGg
  3gputBRdSrgQ77AOCuJQkV0/LBCoXYxr8rDWvVpSG+jAky8l2BakiWyGIfoLn4h
  YI2OpdqapQNjPGUcweiQx8/LzEjH8m4XPZA5gx6r7vmuVNxga5EGt9ULyA/l++nW
  3lUV05BaJjoD75/FOCamBTpSR1lpScw01E00P58Q8sPxAEMsr09+e3C5p2QkXwJt
  1clC9gc6SvTHr6OAP4IO1w==</SwSec:SignatureValue>
  <SwSec:KeyInfo>

<SwSec:SignDN>cn=fin1spxainjj,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>
    </SwSec:Manifest>
  </SwSec:CertPolicyId>

<Sw:DigestValue>tUfIIUJa6uN5oFgS5ehyfe30RDpd5G3sF14CoeTBvho=</Sw:DigestValue>
  </Sw:Reference>

```

```

        <Sw:Reference>
          <Sw:DigestRef>Sw.E2S</Sw:DigestRef>
        </Sw:Reference>
<Sw:DigestValue>p4a3bGnoVdcDUBy6BHUUg8czj8ru32ROmxj9warz65M=</Sw:DigestValue>
  </Sw:Reference>
  </SwSec:Manifest>
  </SwSec:Signature>
  </Saa:MACSignatureValue>
  </Saa:FINSecurityInfo>
  </Saa:SecurityInfo>
</Saa:Message>
</Saa:Header>

<Saa:Body>DQo6MTZSOkdFTkwNCjoyMEM60lNFTUUVLzExLTU0MC1TUi0yMDEwDQo6MjNHok5FV00NCjoxN
lI6TElOSw0K0jIwQzo6UE9PTC8vUkVGRVJFTkNFDDQo6MzZCOjUUVVJOLy9GQU1ULzEwMDAwMDAsDQo6MTZT
OkxJTksNCjoxNlM6R0VOTA0K0jE2UjUkFEREVUDQo60ThBOjPjTRVRULy8yMDEwMTEyMA0K0jM1QjU01
OIFVTMDAwMDEyMzQ1Ng0KQUJDRcANCjoxNlI6Rk1BDQo60TRCOjPQTE1TL1hOWVMvRVhDSC9ORVdZT1JLIF
NUT0NDIEVYQ0hBTkdFDQo6MjJGOjPNSUNPLy9BMDEyDQo60ThBOjPjNQVRVLY8yMDEwMTEyMA0K0jE2UzPjGS
UENCjoxMkY60lJQT1IvL0RFRlINCjoxNlM6VFJBRERFVA0K0jE2UjPjGSUFDDQo6MzZCOjPjTRVRULy9GQU1U
LzEwMDAwMDEwMzQ1Ng0K0jE2UzPjGSUFDDQo6MTZS0lNFVFRFVA0K0jIyRj06U1R
DTy8vTlBBUg0K0jIyRj06U0VUU18vVfVSTg0K0jE2UjPjTRVRQU1RZDQo60TVQOjPjCVV1SLy9TV0hRQkVCQg
0K0jE2UzPjTRVRQU1RZDQo6MTZS0lNFVFRFVfKNCj05NVA60lNFTewL1NXSFFCRUJCDQo60TdB0jPjTQUZFL
y8xMjM0NTYncjoxNlM6U0VUUFJUWQ0K0jE2UjPjTRVRQU1RZDQo60TVQOjPjERUFHLY9TV0hRQkVCQg0K0jE2
UzPjTRVRQU1RZDQo6MTZS0lNFVFRFVfKNCj05NUM60lBTRVQvL1VTDQo6MTZT0lNFVFRFVfKNCjoxNlM6U0V
UREVU</Saa:Body>
  </Saa:DataPDU>
  </GetAckResponse>
</S:Body>
</S:Envelope>

```

7.2.4 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-6a30-4cc3-9de6-919fbec</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>120187SPXAINJJAXXX0132144569</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:NetworkInfo>
          </Saa:Header>
        </Saa:DeliveryNotification>
      </Saa:Header>
    </Saa:DataPDU>
  </GetAckResponse>
</S:Body>
</S:Envelope>

```

```

        <Saa:SessionNr>0132</Saa:SessionNr>
        <Saa:SeqNr>050336</Saa:SeqNr>
        <Saa:FINNetworkInfo>
            <Saa:MessageSyntaxVersion>1105</Saa:MessageSyntaxVersion>
    </Saa:CorrespondentInputReference>120117DYDYXXXXHXXX0001272755</Saa:CorrespondentInputReference>

    <Saa:CorrespondentInputTime>20180117084100</Saa:CorrespondentInputTime>
        <Saa:LocalOutputTime>20180117094200</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>ezE3NTowOTQxfXsxMDY6MTIwMTE3U1BYQUlOSkpBWFhYMDEzMjE0NDU2OX17MTA4O1JFRjEwODEyMDMxMzI1fXsxNzU6MDk0MX17MTA3OjEyMDExN1NQWEFJTkpKQVhYWDAxMzIwNTAzMzV9</Saa:Body>
    </Saa:DataPDU>
</GetAckResponse>
</S:Body>
</S:Envelope>

```

7.2.5 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>
        </DataPDU>
      </urn:Put>
    </soapenv:Body>
  </soapenv:Envelope>

```

```

<Body><AppHdr
xmlns="urn:swift:xsd:$ahV10"><MsgRef>AppHdrMyRef67_08Dec</MsgRef><CrDate>2018-01-
23T11:15:12</CrDate></AppHdr><Document
xmlns="urn:swift:xsd:setr.010.001.03">
  <SbcptOrdrV03>
    <MsgId>
      <Id>SubsOrder001</Id>
      <CreDtTm>2018-01-23T11:15:12.0Z</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>
<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/xmldsig#sha256" /><DigestValue>Y7oScHnYOUQvni/TSzZbDec+HR
+mWIFH149GXpwj1Ws=</DigestValue></Reference></SignedInfo><SignatureValue>6ynF/
FcwbPsHrtlj3h2agJigdnvpb06hOzKSRGzqkw0=</SignatureValue></Signature></LAU>
</DataPDU>
</urn:Put>
</soapenv:Body>
</soapenv:Envelope>

```

7.2.6 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>swi00001-2018-01-
17T11:53:20.1460.307385Z</Saa:ReconciliationInfo>
            <Saa:NetworkDeliveryStatus>NetworkAked</Saa:NetworkDeliveryStatus>

```

```

        <Saa:OriginalInstanceAddressee>
          <Saa:X1>SPXAINJXXXX</Saa:X1>
        </Saa:OriginalInstanceAddressee>

<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>swi00001-2018-01-
17T11:53:20.1460.307385Z</Saa:SWIFTRef>
      <Saa:SNLRef>SNL02018-2018-01-
17T11:53:11.7312.009650Z</Saa:SNLRef>
      <Saa:Reference>a6897c3e-fbaf-4b99-9c98-
0alb960cac0b</Saa:Reference>
      <Saa:SnFInputTime>0137:2018-01-
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: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:F21SPXAINJAXXX000046000000002}{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>

```

7.2.7 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>OSPXAINJXXXX010REF10812031329$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>SPXAINJXXXX</Saa:X1>
    </Saa:FullName>
  </Saa:Sender>
  <Saa:Receiver>
    <Saa:DN>o=spxainjj,o=swift</Saa:DN>
    <Saa:FullName>
      <Saa:X1>SPXAINJXXXX</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>swi00001-2018-01-
17T11:53:20.1460.307385Z</Saa:SWIFTRef>
      <Saa:SNLRef>SNL02013-2018-01-
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>0137:2018-01-
17T11:53:20</Saa:SnFInputTime>
      <Saa:SnFDeliveryTime>2018-01-
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=finlspxainjj,o=spxainjj,o=swift</Saa:SignerDN>
  <Saa:NRTType>SvcMand</Saa:NRTType>
  <Saa:SignatureResult>Success</Saa:SignatureResult>
  <Saa:SignatureValue>
    <SwSec:CryptoInternal>

<SwSec:CipherKey>UEVNRkBQcm9jLVR5cGU6IDQsTU1DLU90TFkNCkNvbnRlbnQtRG9tYWluOiBSRkM4Mj
INCkVudHJlc3RGaWxlLVZlcuNpb246IDIuMA0KT3JpZ2luYXRvcilETjogY249ZmluMXNweGFpbmpqLG89c
3B4YWluamosbz1zd2lmdA0KT3JpZy1TTjogMTMwNzEzNjMwOktU1DLUluZm86IFNIQTl1NiwiU1NBLA0K
IHhuRGluOWlad3RCTjNvTVBrc3o0cj15d2JYM3VvQWllTH1ZOUJsRXl1UTDdJSEhHK0hKVW1ZcHFtODRFSGI
rMwONCiBiTkYyR0pzdXJXWFlaS0wzTXpUVkhrWk5UUFpSU2xzZnN1aHNDRmtKS1VGZkVOaVNOQ3Z0eFJUSj

```

```
BSdHhwMjVPDQogUG4xUit2V2FocEpOCHF2ald5aUpEMDlObFhtTWZZMjBvaDJQVmtZbktkYzNCZTEzT1NTM
nhvZS9oNC9jdkFwRA0KIHR4VmVNMWF4aEVMaHFJN1c3bF1KK1RSSDg1UUduZ0JCU092ZCtpcmhKcHZVTmpP
L0svdDk1VU54Z1BOUzFLMXgNCiBwd0lQaUx6NzhhYz1rVlJMM3RHZHVDajZmYU9RZGJlMGVka2IwYVpTREx
JMDNEcXE3NWx2eGtYdzkwrHd6am5SDQogVXJfcVFWESEY0T3hJUHh1NUFJWFhLdz09DQo=</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>2018-06-23T11:15:12</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>2018-06-23T11:15:12.0Z</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>

```

7.2.8 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>swi00001-2018-01-
17T11:53:20.1460.307385Z</Saa:ReconciliationInfo>
          <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>swi00001-2018-01-17T11:53:20.1460.307385Z</Sw:SnFRef>
        <Sw:SnFRefType>InterAct</Sw:SnFRefType>
        <Sw:AcceptStatus>Accepted</Sw:AcceptStatus>
        <Sw:AckSwiftTime>2018-01-17T11:53:24Z</Sw:AckSwiftTime>
        <Sw:AckInfo>Acked</Sw:AckInfo>
      </Sw:NotifySnFRequestHandle>
    </Saa:Body>
  </Saa:DataPDU>
</GetAckResponse>
</S:Body>
</S:Envelope>

```

*** End of Document ***