CONFIDENTIAL
30.10.2026

WEB SERVICES INTERFACE

SAMLINK'S TECHNICAL INTERFACE DESCRIPTION FOR SOFTWARE COMPANIES

samlink

A Kyndryl Company

Sisällysluettelo

1 SOAP frame 3
2 Payment material compression 3
3 Payment material encryption 3
4 Supported operations 3
5 Application Request Header 3
5.1 SenderId 3
5.2 RequestId 3
5.3 Timestamp 3
5.4 Language 3
5.5 UserAgent 4
5.6 ReceiverId 4
6 Using the elements of the Application Request message 4
6.1 CustomerId 4
6.2 Command 4
6.3 Timestamp 4
6.4 StartDate 4
6.5 EndDate 4
6.6 Status 4
6.7 ServiceId 4
6.8 Environment 4
6.9 FileReferences/FileReference 4
6.10 UserFileName 4
6.11 TargetId 4
6.12ExecutionSerial 4
6.13 Encryption 4
6.14 EncryptionMethod 5
6.15 Compression 5
6.16 CompressionMethod 5
6.17 AmountTotal 5
6.18 TransactionCount 5
6.19 SoftwareId 5
6.20 CustomerExtension 5
6.21 FileType 5
6.22 Content 5
6.23 Signature 5
7 Application Response elements 5
7.1 CustomerId 5
7.2 Timestamp 5

7.3 ResponseCode 5
7.4 ResponseText 6
7.5 ExecutionSerial 6
7.6 Encrypted 6
7.7 EncryptionMethod 6
7.8 Compressed 6
7.9 CompressionMethod 6
7.10 AmountTotal 6
7.11 TransactionCount 6
7.12 CustomerExtension 6
7.13 FileDescriptors 6
7.14 UserFileTypes 7
7.15 Content 7
7.16 Signature 7
8 Example messages 8
8.1 SOAP-query (uploadFile) 8
8.2 Application Request UploadFile 9
8.3 Application Request DownloadFileList 10
8.4 Application Request DownloadFile 11

1 SOAP frame

In the WS channel, we only receive SEPA material in SOAP messages. The WS-Security element in the SOAP message heading must have a signature.

2 Payment material compression

Samlink's system solution is compatible with material compression according to RFC 1952. In that case, the value of the CompressionMethod field is ”GZIP” and the Compression element is ”true”. We recommend that the material is retrieved compressed. The maximum material size is 50 MB.

3 Payment material encryption

Payment material's separate encryption is not supported (the EncryptionMethod and Encryption elements).

4 Supported operations

Supported:

- uploadFile
- downloadFileList
- downloadFile
- deleteFile

Not supported

- getUserInfo
- returns error code05, (getUserInfo not supported)

5 Application Request Header

Application Request has elements, the use of which is specified below.

5.1 SenderId

The identifier of the sender of the material, that is, the WS user ID. This has been handed over to the company upon signing the contract.

5.2 RequestId

The identifier of the material delivery. Materials arriving during the same day must have unique values. If the value has been used previously, the message is rejected due to being a duplicate.

5.3 Timestamp

The time stamp indicating when Application Request Header has been created.

5.4 Language

- Finnish: FI
- Swedish: SV
- English: EN

5.5 UserAgent

5.6 ReceiverId
Not in use

6 Using the elements of the Application Request message

6.1 CustomerId
The identifier (WS user ID) of the party who has created the material. This has been handed over to the company upon signing the contract.

6.2 Command
The value must match the SOAP operation.

6.3 Timestamp
The time stamp when the Application Request has been created.

6.4 StartDate
Element value is read only for the following operations: DownloadFileList.

6.5 EndDate
Element value is read only for the following operations: DownloadFileList.

6.6 Status
Element value is read for the following operations: DownloadFileList. We support the codes NEW, DLD, ALL

6.7 ServiceId
Not in use.

6.8 Environment
We support: PRODUCTION and TEST The test environment uses production identification codes. The “TEST” value is only used in “UploadFile” operations where the material undergoes a formal check, but the materials do not go to payment.

6.9 FileReferences/FileReference
Element value is read for the following operations: DownloadFile and DeleteFile. For feedback only. Max. 50 FileReference elements allowed in one message.

6.10 UserFileName
Element value is read only for the following operations: UploadFile

6.11 TargetId
Supported according to the definition.

6.12ExecutionSerial

Not in use

6.13 Encryption
Not in use

6.14 EncryptionMethod
Not in use

6.15 Compression
Supported, the value is either true or false.

6.16 CompressionMethod

If in use, the value is "GZIP"

6.17 AmountTotal
Element value is read only for the following operations: UploadFile.If the element exists and if FileType is XL, we will compare the field value with the payment material sum. If FileType is XL, we will return the correct value in this field in the response, even if the client would not have calculated it.

6.18 TransactionCount
Element value is read only for the following operations: UploadFile.For payment material, we will compare the value of this element with the payment material sum. If the payment material is pain.001.001.02 or pain.001.001.03, we will return the correct value in this field in the response, even if the customer application would not have calculated it.

6.19 SoftwareId
Information on the software and its version, sent by the customer application.

6.20 CustomerExtension
Not in use.

6.21 FileType
Element value is read only for the following operations: UploadFile, DownloadFile and Download-FileList. Complete list of accepted file types are in Web Services – service description.

6.22 Content
Element value is read only for the following operations: UploadFile

6.23 Signature
All messages must be signed

7 Application Response elements

7.1 CustomerId
The customer's service identifier.

7.2 Timestamp
The time stamp, on the basis of which the material can be identified as outdated. (In the implementation phase, we will find out the suitable value).

7.3 ResponseCode

See table 1.

7.4 ResponseText

Table 1. Values used in the ResponseCode and ResponseText elements of the application's response message (ApplicationResponse).

Koodi	Selitys
00	OK
05	UNKNOWN APPLICATION REQUEST
12	THE FORMAL CHECK-UP OF THE MATERIAL FAILED
21	DEFECTIVE PACKAGING OF MATERIAL
25	MATERIAL NOT ALLOWED
26	TECHNICAL ERROR
27	MATERIAL CANNOT BE REMOVED
30	IDENTIFICATION FAILED
32	DUPLICATE DELIVERY

7.5 ExecutionSerial

Not in use

7.6 Encrypted

Not in use

7.7 EncryptionMethod

Not in use

7.8 Compressed

We support compression according to the definition

7.9 CompressionMethod

We support this according to RFC 1952

7.10 AmountTotal

See the explanation for request

7.11 TransactionCount

See the explanation for request

7.12 CustomerExtension

Not in use

7.13 FileDescriptors

We will only return the element for: DownloadFileList

7.13.1 FileDescriptor

- FileReference (always)
- TargetId (always)
- ServiceId (not in use)

- ServiceIdOwnerName (not in use)
- UserFileName (always)
- ParentFileReference (if it is feedback)
- FileType (always)
- FileTimestamp (always)
- Status (always)
- AmountTotal (always)
- TransactionCount (always)
- LastDownloadTimestamp (given to feedback if not empty)
- ForwardedTimestamp ((returned to material if not empty)
- Confirmable (not in use)
- Deletable (not in use)
- SubStatusCode (not in use)
- SubStatusText (not in use)
- MissingTransactions (not in use)
- SubType (not in use)
- FeedbackFileAttributes (not in use)

7.14 UserFileTypes

We do not support the GetUserInfo operation, and therefore will not return the UserFileTypes element

7.15 Content

We will only return the element for: DownloadFile If the customer search requests several files, the content of the files are one after the other within Content.

7.16 Signature

We will sign all responses

8 Example messages

8.1 SOAP-query (uploadFile)

```
<soapenv:Envelope xmlns:cor="http://bxd.fi/CorporateFileService" xmlns:mod="http://model.bxd.fi"
   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
   <soapenv:Header>
      <wsse:Security soapenv:mustUnderstand="1"
         xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
         <wsu:Timestamp wsu:Id="Timestamp-18"
            xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
            <wsu:Created>2009-10-01T06:06:04Z</wsu:Created>
            <wsu:Expires>2009-10-01T06:07:04Z</wsu:Expires>
         </wsu:Timestamp>
         <wsse:BinarySecurityToken
            EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Binary"
            ValueType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509v3"
            wsu:Id="CertId-F7FBE81F5BE55E909412590680 1354825"
            xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
            >MIIF8TCCA9mgA...rl0sNWWvzI50mt0SzYg==</wsse:BinarySecurityToken>
         <ds:Signature Id="Signature-17" xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
            <ds:SignedInfo>
               <ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
               <ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
               <ds:Reference URI="#Body-564863ec-e66f-4e75-9cff-6759f476fa77">
                  <ds:Transforms>
                     <ds:Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
                  </ds:Transforms>
                  <ds:DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
                  <ds:DigestValue>X73lxdQlSeY6ui+graEww2nLetg=</ds:DigestValue>
               </ds:Reference>
            </ds:SignedInfo>
            <ds:SignatureValue>eF8SoDwNG...GyCA==</ds:SignatureValue>
            <ds:KeyInfo Id="KeyId-F7FBE81F5BE55E909412590680 1354826">
               <wsse:SecurityTokenReference wsu:Id="STRId-F7FBE81F5BE55E909412590680 1354827"
                  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
                  <wsse:Reference URI="#CertId-F7FBE81F5BE55E909412590680 1354825"
                     ValueType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509v3"
                     />
               </wsse:SecurityTokenReference>
            </ds:KeyInfo>
         </ds:Signature>
      </wsse:Security>
   </soapenv:Header>
   <soapenv:Body wsu:Id="Body-564863ec-e66f-4e75-9cff-6759f476fa77"
      xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
      <cor:uploadFilein>
         <mod:RequestHeader>
            <mod:SenderId>99471123</mod:SenderId>
            <mod:RequestId>1254373564698</mod:RequestId>
            <mod:Timestamp>2009-10-01T08:06:04+03:00</mod:Timestamp>
            <mod:Language>FI</mod:Language>
            <mod:UserAgent>TESTER v1.0</mod:UserAgent>
            <mod:ReceiverId>SAMLINK</mod:ReceiverId>
         </mod:RequestHeader>
         <mod:ApplicationRequest>PEFwcGxpY2...SZXF1ZXN0Pg==</mod:ApplicationRequest>
      </cor:uploadFilein>
   </soapenv:Body>
</soapenv:Envelope>
```

8.2 Application Request UploadFile

```
<?xml version="1.0" encoding="UTF-8"?>
<ApplicationRequest xmlns="http://bxd.fi/xmldata/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://bxd.fi/xmldata/">
    <CustomerId>99471123</CustomerId>
    <Command>UploadFile</Command>
    <Timestamp>2009-09-23T16:57:41+03:00</Timestamp>
    <Environment>PRODUCTION</Environment>
    <TargetId>NONE</TargetId>
    <ExecutionSerial>123456789</ExecutionSerial>
    <Compression>false</Compression>
    <SoftwareId>Tester v1.0</SoftwareId>
    <FileType>XL</FileType>
    <Content>PD94bWw...LORvY3VtZW50Pg==</Content>
    <Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
        <SignedInfo>
            <CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
            <SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
            <Reference URI="">
                <Transforms>
                    <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
                    <Transform Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
                </Transforms>
                <DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
                <DigestValue>nhUuKYDobDqKF5BZjsHL4te51VQ=</DigestValue>
            </Reference>
        </SignedInfo>
        <SignatureValue>e/wzKE8ASU..DL2bhkBzBelLdegg==</SignatureValue>
        <KeyInfo>
            <X509Data>
                <X509Certificate>MIIF8TCCA9m..trIOsNWwzI50mtOSzYg==</X509Certificate>
                <X509IssuerSerial>
                    <X509IssuerName>CN=Samlink System Test Customer CA, O=Samlink,
                        C=FI</X509IssuerName>
                    <X509SerialNumber>532337661024215434339576329070463384 67</X509SerialNumber>
                </X509IssuerSerial>
            </X509Data>
        </KeyInfo>
    </Signature>
</ApplicationRequest>
```

8.3 Application Request DownloadFileList

```
<?xml version="1.0" encoding="UTF-8"?>
<ApplicationRequest xmlns="http://bxd.fi/xmldata/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://bxd.fi/xmldata/">
    <CustomerId>99471123</CustomerId>
    <Command>DownloadFileList</Command>
    <Timestamp>2009-10-01T08:06:04+03:00</Timestamp>
    <Environment>PRODUCTION</Environment>
    <TargetId>NONE</TargetId>
    <ExecutionSerial>123456789</ExecutionSerial>
    <Compression>false</Compression>
    <SoftwareId>DataPower Test Client</SoftwareId>
    <FileType>XP</FileType>
    <Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
        <SignedInfo>
            <CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
            <SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
            <Reference URI="">
                <Transforms>
                    <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
                    <Transform Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
                </Transforms>
                <DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
                <DigestValue>nhUuKYDobDqKF5BZjsHL4te51VQ=</DigestValue>
            </Reference>
        </SignedInfo>
        <SignatureValue>e/wzKE8ASU..DL2bhkBzBelLdegg==</SignatureValue>
        <KeyInfo>
            <X509Data>
                <X509Certificate>MIIF8TCCA9m..trIOsNWwzI50mt0SzYg==</X509Certificate>
                <X509IssuerSerial>
                    <X509IssuerName>CN=Samlink System Test Customer CA, O=Samlink,
                        C=FI</X509IssuerName>
                    <X509SerialNumber>532337661024215434339576329070463384 67</X509SerialNumber>
                </X509IssuerSerial>
            </X509Data>
        </KeyInfo>
    </Signature>
</ApplicationRequest>
```

8.4 Application Request DownloadFile

```
<?xml version="1.0" encoding="UTF-8"?>
<ApplicationRequest xmlns="http://bxd.fi/xmldata/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://bxd.fi/xmldata/">
    <CustomerId>99471123</CustomerId>
    <Command>DownloadFile</Command>
    <Timestamp>2009-05-04T18:13:51.0Z</Timestamp>
    <Environment>PRODUCTION</Environment>
    <FileReferences>
        <FileReference>327464231</FileReference>
        <FileReference>873264212</FileReference>
    </FileReferences>
    <Encryption>false</Encryption>
    <Compression>false</Compression>
    <SoftwareId>Tester v1.0</SoftwareId>
    <Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
        <SignedInfo>
            <CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
            <SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
            <Reference URI="">
                <Transforms>
                    <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
                    <Transform Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
                </Transforms>
                <DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
                <DigestValue>nhUuKYDobDqKF5BZjsHL4te5lVQ=</DigestValue>
            </Reference>
        </SignedInfo>
        <SignatureValue>e/wzKE8ASU..DL2bhkBzBelLdegg==</SignatureValue>
        <KeyInfo>
            <X509Data>
                <X509Certificate>MIIF8TCCA9m..trIOsNWwzI50mtOSzYg==</X509Certificate>
                <X509IssuerSerial>
                    <X509IssuerName>CN=Samlink System Test Customer CA, O=Samlink,
                        C=FI</X509IssuerName>
                    <X509SerialNumber>532337661024215434339576329070463384 67</X509SerialNumber>
                </X509IssuerSerial>
            </X509Data>
        </KeyInfo>
    </Signature>
</ApplicationRequest>
```