Tax and Customs administration

Meeting Software developers

regarding

Dividend Withholding Tax

Jaarbeurs, Utrecht

October 12, 2016

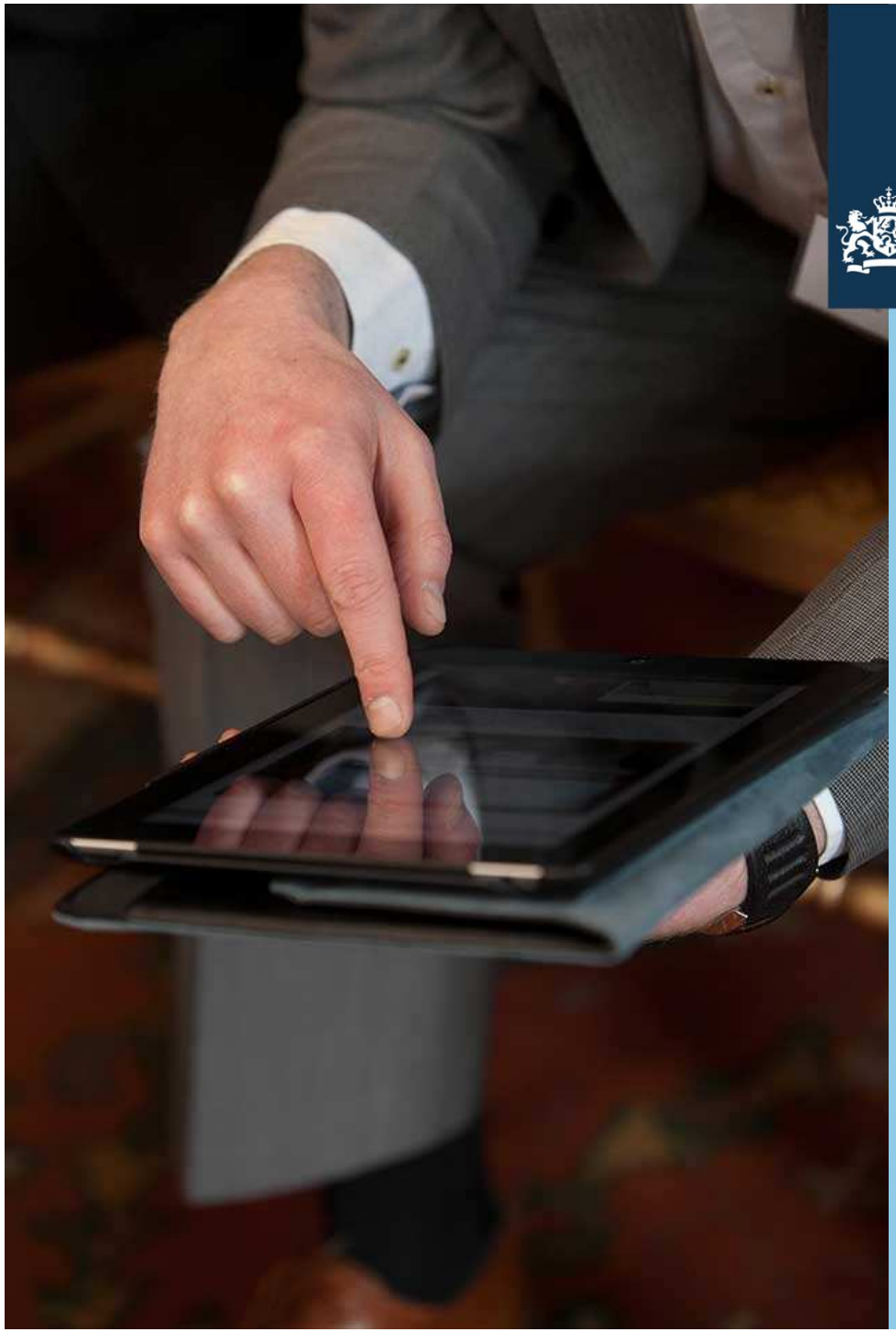
Opening & Introduction

Program

From	To	Item
09:30	10:00	Reception
10:00	10:30	Opening & Introduction
10:30	11:00	Your expectations from this meeting?
11:00	11:15	Support to software developers
11:15	11:30	Coffee break
11:30	12:00	Dutch Withholding Tax business proces
12:00	12:45	Lunch

12:45	13:30	Information about XBRL
13:30	14:15	Connection to Digipoort
14:15	15:15	What is needed for connection to Digipoort?
15:15	15:45	Pause
15:45	17:00	The technique behind the connection to Digipoort
17:00	17:30	Demonstration
17:30	18:00	Review & Closing

Your expectations from this meeting?



Tax and Customs administration

Team OSWO

Support to Software Developers

Community Software Ontwikkelaars (CSO)

at www.oswo.nl

Brochure OSWO: Services to software developers

October 12, 2016

Services of OSWO

- **Information** (CSO: Releases, Latest news section)
- **Support servicedesk** (servicedesk@oswo.nl)
- **Test facility ValidatieTestService** (VTS)

Testfacilities

ValidatieTestService

Vragen aan de Servicedesk

Vragen aan de Servicedesk

Information

Brochure OSWO (English version)

Laatste nieuws

6 sep, 15:41
(OSWO) Belastingdienst

Teruggaaf Dividendbelasting / Dividend Withholding Tax

Algemeen

Teruggaaf Dividendbelasting /

Dividend Withholding Tax

Nieuwsforum

Vragen aan de servicedesk
Gebruik dit communicatiemiddel als u uw vraag expliciet aan de servicedesk van team OSWO wilt stellen. De collega's binnen uw bedrijf die toegang hebben tot de community kunnen uw vraag of opmerking en de reactie daarop wel lezen, maar alle andere communitygebruikers niet.
U kunt ook uw vraag of opmerking per email sturen naar servicedesk@oswo.nl

Binnen 2 werkdagen krijgt u een reactie op uw vraag of opmerking.

Vragen aan de servicedesk (Questions for the servicedesk of team OSWO)
Use this communication instrument if you have any questions explicit for the servicedesk of team OSWO. Only your colleagues within your company with access to the community are able to read your question or comment and the response to it. Other community members are not able to read the question or the response.
You can also sent your question or comment by email to servicedesk@oswo.nl

Teruggaaf Dividendbelasting / Dividend Withholding Tax

Release_Dividend_Withholding_Tax_TDi_(NT10.2)_Version_02

Release_Dividend_Withholding_Tax_TDi_(NT10.2)_Version_02

Known-errorlist v1.0 Gegevensspecificatie TDi_Verzoek (Specification of data regarding DWT_Collective_Reclaim

Known-errorlist v1.0 Gegevensspecificatie TDi Klantregistratie (Specification of data regarding DWT_Registration_BO)

Quick reference of all available SBR Information

October 12, 2016

Coffee break

Tax and Customs administration

New process
Dividend Withholding Tax business proces

October 12, 2016

What's New

- ✓ **No** longer paper, **only** digital reclaims

- ✓ **Individual** reclaims by **DTA-Portal**:
  - ✓ Only new beneficiaries
  - ✓ Registration as a authorised representative
  - ✓ Reclaim on behalf of your beneficiaries

- ✓ **Collective** reclaims by **E-file**:
  - ✓ XBRL by Digipoort: **<u>from</u> 01-07-2017**
  - ✓ Textfile by email: **<u>until</u> Q4 2017**

What changed in paperfile

- **Registration by DTA-Portal**
- **Reclaim form by DTA-Portal**
- **Validity**

Registration by DTA-Portal

First of all; registration

- **authorised representative**
- **name of your company**
- **contact (only one)**

3 letters

- **confirmation**
- **userid (Dutch letter without contact)**
- **password (Dutch letter without contact)**

Reclaim form by DTA-Portal

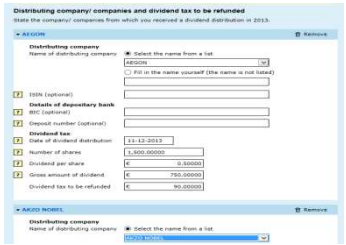
- No possibility to upload attachements
- Evidence in your possession
- Immediately to be send if we ask (2 weeks)
    - certificate of residence\ tax exemption certificate
    - statute
    - dividendnotes

Validity

- Because we are in transition situation we accept certificate of residence /tax exemption certificates issued in 2016 or 2015 also for previous years.

- For benefits from 2016 the certificate of residence / tax exemption certificate may not be issued two years before the year of benefit.

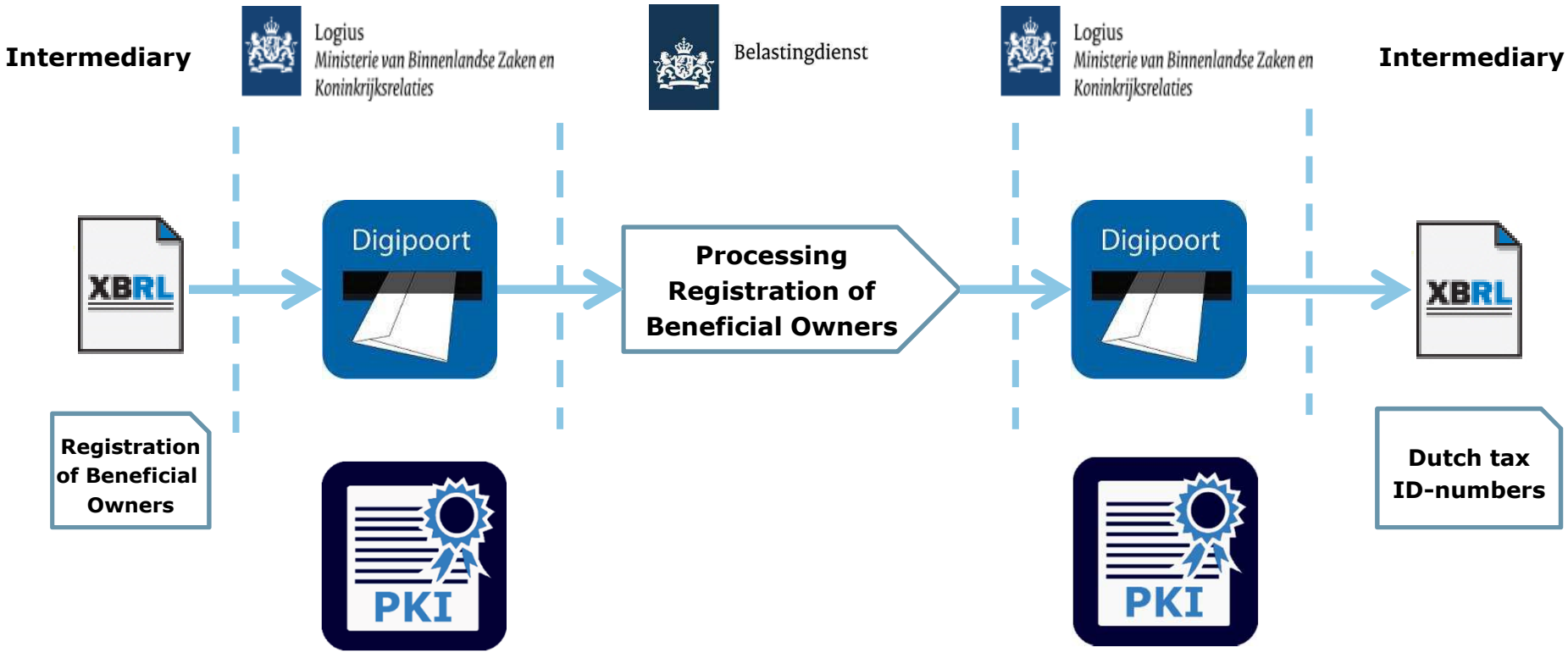
Short impression DTA-Portal



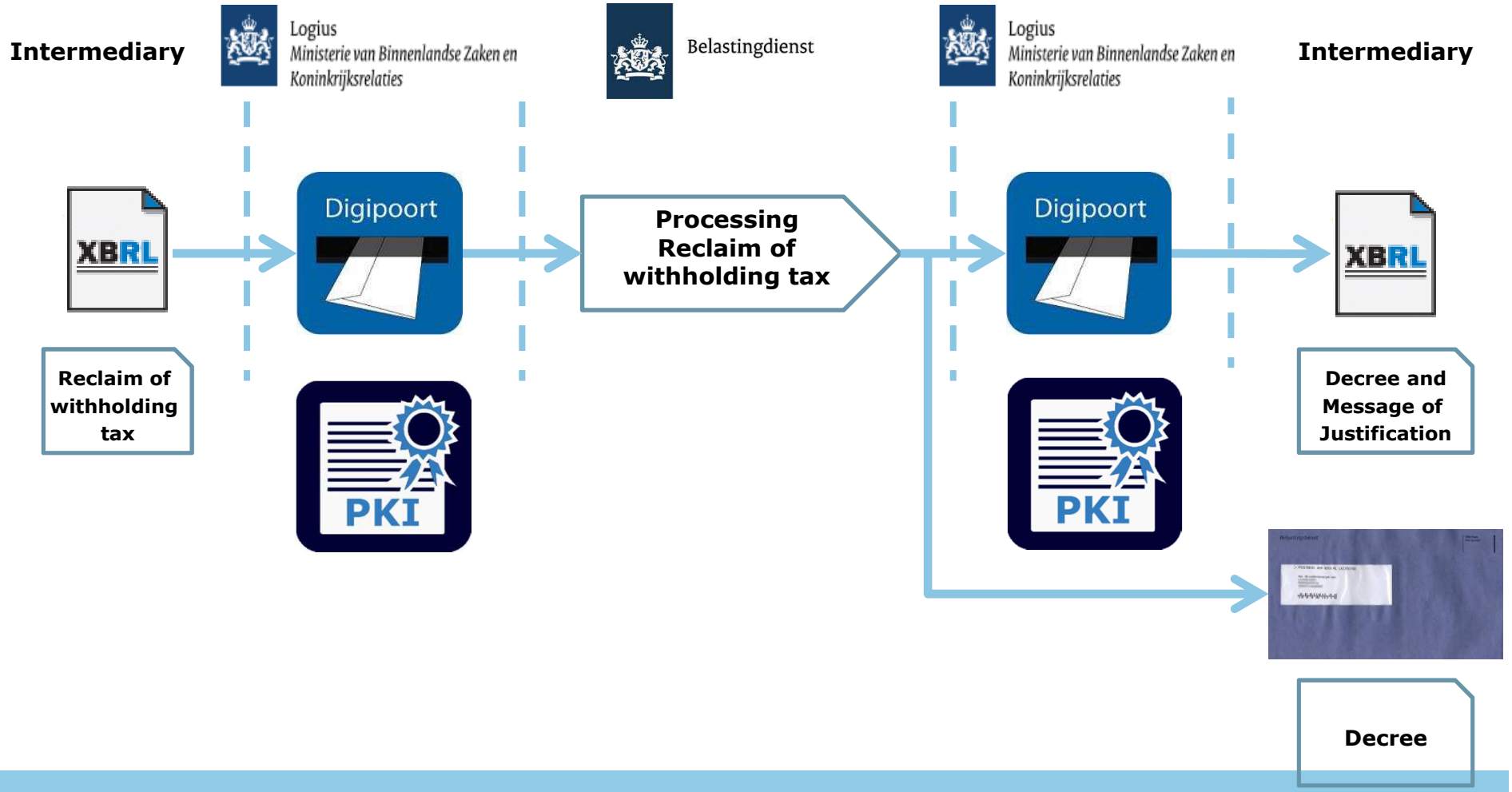
What's the new process by E-file:

- **System-to-system interaction**
- **New dataset**
- **Identification and registration of Beneficial Owner in advance**
- **Correction policy on individual records**
- **Verification and corrections first, than payment**

Registration Beneficial Owners



Reclaim of withholding tax



New dataset:
Registration Beneficial Owner

Beneficial Owner:

- **Dutch Tax identification number**
- **Name**
- **Adress**
  - **street/PO box,**
  - **house number, house number suffix, extra address**
  - **postal code**
  - **town/city**
- **Country of residence**
- **Tax identification number (TIN, optional)**
- **Indication Natural Person (Y/N)**
- **Indication Full Refund (Y/N)**

New dataset:
Reclaim withholding Tax

Grand Total Reclaim:

- Total gross amount of dividend tax
- Total amount of the refund of dividend tax
- Year

Beneficial Owner:

- Dutch Identification number

New dataset:
Reclaim withholding Tax

Dividend payment per share:

- ISIN
- Name Issue
- BIC Custodian Depotholder
- Depot/account number
- Amount of dividend pro share
- Paydate
- Number of shares
- Refund dividend withholding tax

XBRL-files

Registration Beneficial Owner:

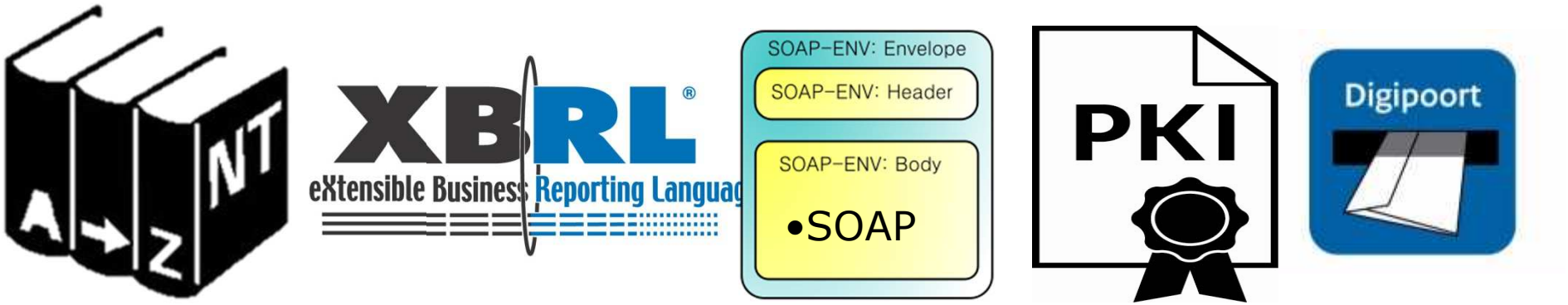
- ✓ DWT_Registration_BO
- ✓ DWT_Confirmation_BO

Reclaim Withholding Tax:

- ✓ DWT_Collective_Reclaim
- ✓ DWT_Collective_Decree

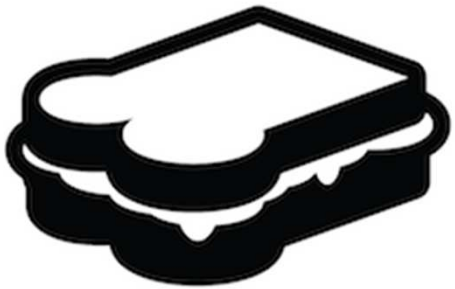
System-to-system requirements (SBR)

SBR: Simplification and standardisation of financial reports



Questions and final remarks

Lunch



October 12, 2016

Information about

October 12, 2016

Standard Business Reporting Programma
Een initiatief van de Nederlandse overheid

DWT Session
12 october 2016

Information about XBRL

Jos van der Heiden
Logius – Centre for Standards

XBRL - What will we discuss?

1. Taxonomy – the basics
2. Instance Document
3. Taxonomy – ‘advanced’ topics
4. (Architecture)

e**X**tensible **B**usiness **R**eporting **L**anguage

- e**X**tensible
  - Allows for several types of extensions
    - Languages
    - Data to be reported
    - Reporting constructs
- **B**usiness **R**eporting
  - Essentially reporting of ***any*** business data
  - Commonly used for financial and fiscal reporting
- **L**anguage
  - Syntax for
    - Taxonomies – semantics, categorization, business rules, validation, presentation
    - Instances
- "XML on steroids" ☺

Taxonomy – Basics

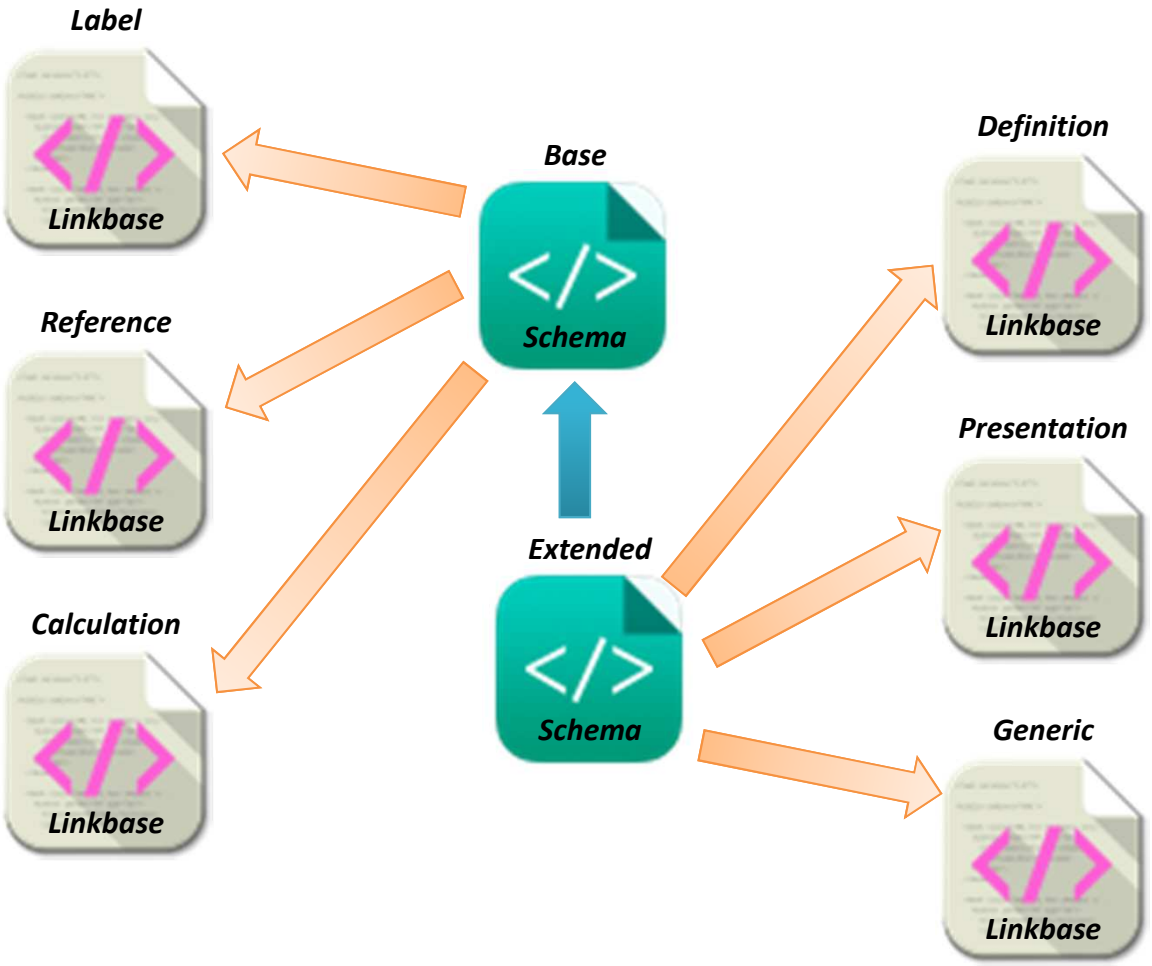
What is a taxonomy?

- Defines the semantics of a (set of) report(s) in terms of
  - Concepts: The data elements that can be reported
    - name; type; definition; alternative names; …
  - Relationships
    - General – Special; Essence – Alias;
  - References
    - Law books; authoritative publications; …
  - Presentation
    - Tree structure; Table structure;
  - Formula
    - Validation; Fact creation;

What does a taxonomy consist of?

- The core information about concepts is defined in an XML Schema:
  - name; type; period type; credit/debit; required; structure
- All other information to a taxonomy (or instance) is added through linkbases (xml files):
  - Defines links between concepts and other concepts or resources
  - Definition; Calculation; Presentation; Label; Reference; Footnote; Generic
- Arcroles to further identify the type of information in links:
  - label;verboseLabel; totalLabel; …
  - definitionRef; presentationRef; …
  - general-special; essence-alias; dimension-member; …
- Roles to group relations in sets:
  - By report (section), functionality, …
- Linkbases form the main extension mechanism

Structure of a taxonomy – an overview



Concepts

- All facts that are reported
  - Id
  - Name
  - Type
  - Period type
  - Balance
  - Abstract
  - structure
    - Items – interpreted independently
    - Tuples – group of related concepts
      - Allows multiple occurences of concept

Taxonomy – Example of concept

```
<xs:element id="bd-bedr_ValueAddedTaxPayablesFiscal" name="ValueAddedTaxPayablesFiscal" type="nl-types:monetaryNoDecimalsItemType"
substitutionGroup="xbrli:item" xbrli:periodType="instant" xbrli:balance="credit" abstract="false" nillable="false" />
```

```
<link:label xlink:label="bd_sample_label_nl" xml:lang="nl" xlink:role="http://www.xbrl.org/2003/role/label" xlink:type="resource"
id="bd_90ae7326d8994095a942e00e2ef5c189">Schulden omzetbelasting fiscaal</link:label>
<link:loc xlink:href="./bd-bedrijven.xsd#bd-bedr_ValueAddedTaxPayablesFiscal" xlink:label="bd-bedr_VATPF_loc" xlink:type="locator" />
<link:labelArc xlink:from="bd-bedr_VATPFiscal_loc" xlink:to="bd_sample_label_nl"
xlink:arcrole="http://www.xbrl.org/2003/arcrole/concept-label" xlink:type="arc" />
```

```
<link:loc xlink:href="./bd-bedrijven.xsd#bd-bedr_ValueAddedTaxPayablesFiscal" xlink:label="bd-bedr_VATPF_loc" xlink:type="locator" />
<link:referenceArc xlink:from=" bd-bedr_VATPF_loc " xlink:to="bd_sample1_ref" xlink:arcrole="http://www.xbrl.org/2003/arcrole/concept-
reference" xlink:type="arc" />
<link:referenceArc xlink:from=" bd-bedr_VATPF_loc " xlink:to="bd_sample2_ref" xlink:arcrole="http://www.xbrl.org/2003/arcrole/concept-
reference" xlink:type="arc" />
<link:reference xlink:label="bd_sample1_ref" xlink:role="http://www.xbrl.org/2003/role/reference" xlink:type="resource"
id="bd_sample1">
      <ref:Name>belastingdienst taxonomie definities.pdf</ref:Name>
      <ref:Paragraph>119443</ref:Paragraph>
      <ref:Chapter>gsp definities</ref:Chapter>
</link:reference>
<link:reference xlink:label="bd_sample2_ref" xlink:role="http://www.xbrl.org/2003/role/reference" xlink:type="resource"
id="bd_sample2">
      <ref:Article>3.25</ref:Article>
      <ref:Name>Wet IB2001</ref:Name>
</link:reference>
```

- Concept
  - Name: ValueAddedTaxPayablesFiscal
  - Type: monetary no decimals
  - Label: Schulden omzetbelasting fiscal
  - Referentie: Paragraaf 119443, Hoofdstuk “gsp definities” van “belastingdienst taxonomie definities.pdf”
  - Referentie: Artikel 3.25 van Wet IB2001

Taxonomy – What does it look like?

- Concept

```
<element id="sample_nr_employees_total" name="nr_employees_total" xbrli:periodType="instant"
type="xbrli:nonNegativeIntegerItemType" substitutionGroup="xbrli:item" nillable="true" />
```

- Linkbase reference

```
<annotation>
  <appinfo>
    <link:linkbaseRef xlink:type="simple" xlink:href="sample-2006-01-01-label.xml"
                      xlink:role="http://www.xbrl.org/2003/role/labelLinkbaseRef"
                      xlink:arcrole="http://www.w3.org/1999/xlink/properties/linkbase" />
    <link:linkbaseRef xlink:type="simple" xlink:href="sample-2006-01-01-presentation.xml"
                      xlink:role="http://www.xbrl.org/2003/role/presentationLinkbaseRef"
                      xlink:arcrole="http://www.w3.org/1999/xlink/properties/linkbase" />
  </appinfo>
</annotation>
```

- Label link

```
<loc xlink:type="locator" xlink:href="sample-2006-01-01.xsd#sample_nr_employees_total"
xlink:label="concept_nr_employees_total" />
<label xlink:type="resource" xlink:label="label_nr_employees_total"
xlink:role="http://www.xbrl.org/2003/role/label" xml:lang="en">Total number employees</label>
<labelArc xlink:type="arc" xlink:arcrole="http://www.xbrl.org/2003/arcrole/concept-label"
xlink:from="concept_nr_employees_total" xlink:to="label_nr_employees_total" />
```

Instance Document

What is an instance document?

- The actual report
- Contains
  - Reference to taxonomy (and optionally linkbases)
  - Contexts
    - Reporting entity
    - Period
    - Segment / Scenario
  - Units
  - Facts
    - The value for a given concept, referring to context and unit

Examples – Instance

- Context

```
<context id="c_start">
<entity> <identifier scheme="http://www.statistics.org">12-34567</identifier> </entity>
<period> <instant>2005-01-01</instant> </period>
</context>
```

- Unit

```
<unit id="u_person"> <measure>Person</measure> </unit>
```

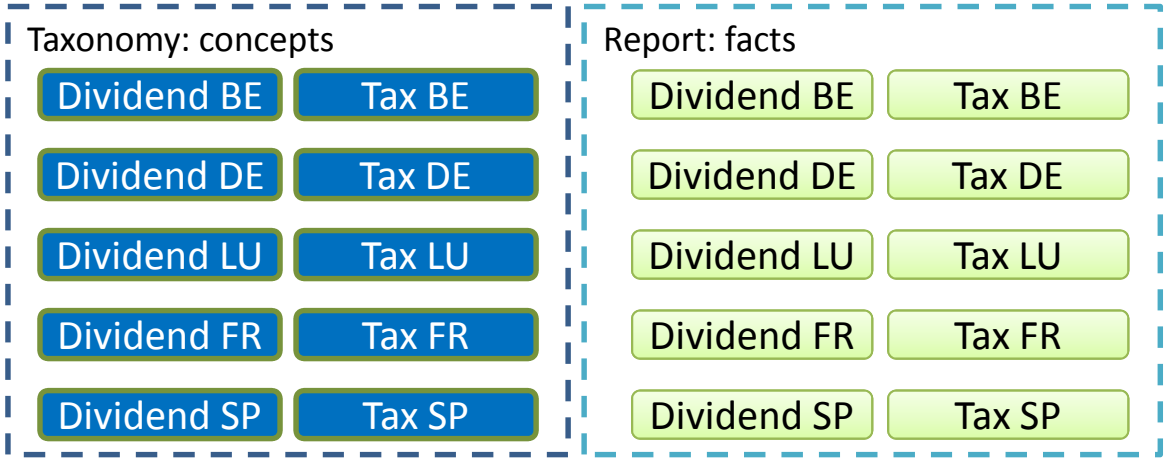
- Fact

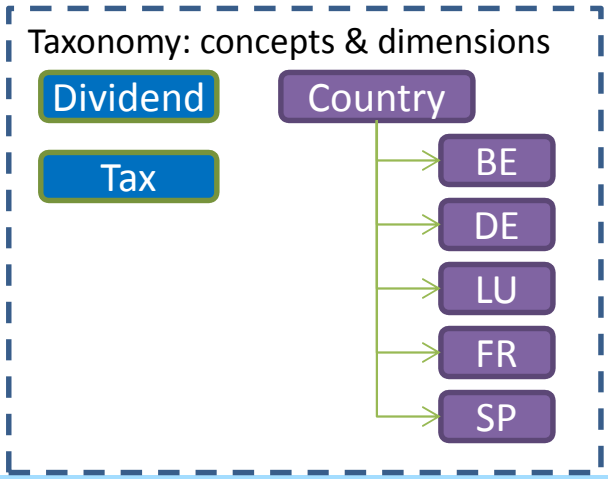
```
<s:nr_employees_total contextRef="c_start" unitRef="u_person" decimals="0">35</s:nr_employees_total>
<s:nr_employees_male contextRef="c_start" unitRef="u_person" decimals="0">23</s:nr_employees_male>
```

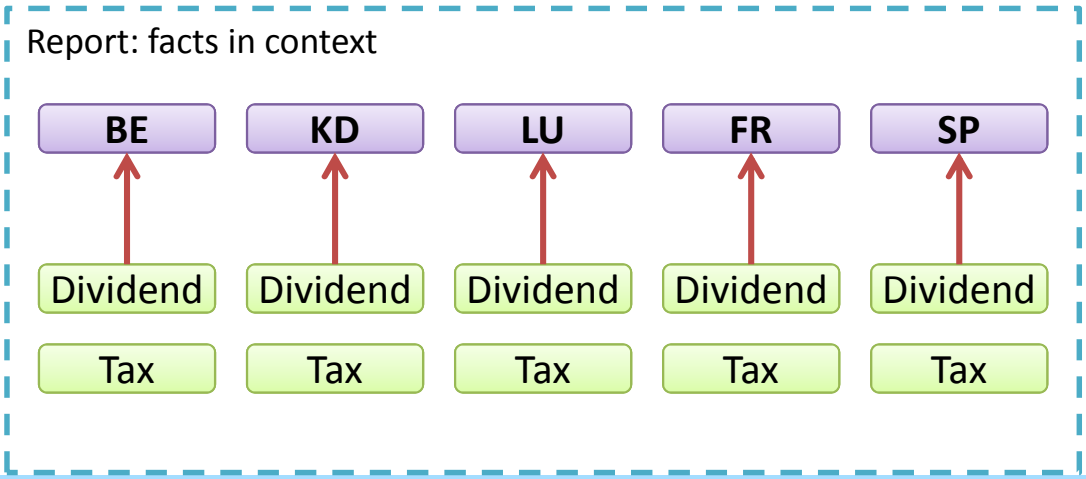
Taxonomy – ‘Advanced’ Topics

Dimensions -1-

- By country
- By product
- By departement
- By kind of …
- …

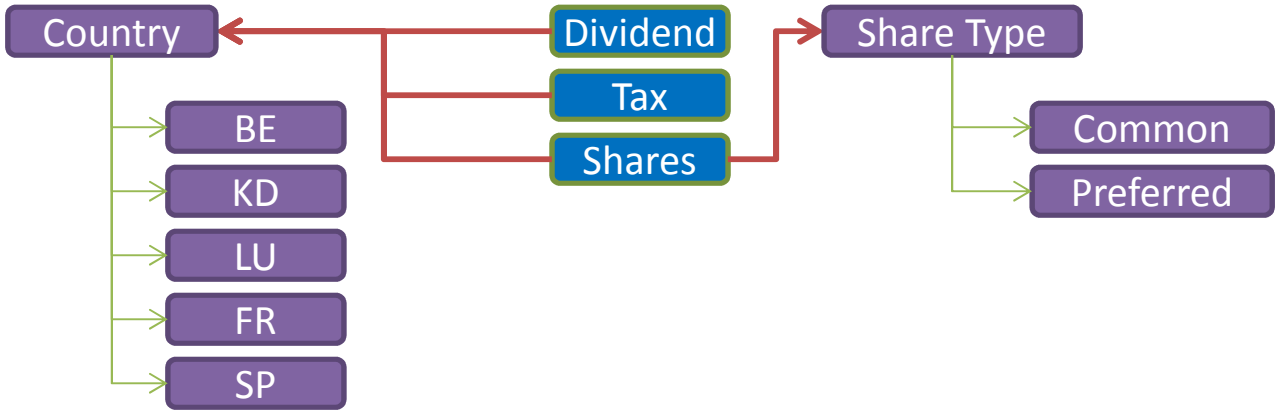






Dimensions -2-

- A structured way to define / declare:
  - Allowed values
  - Allowed combinations
  - Defineable per concept / report
- Validation based on this definition

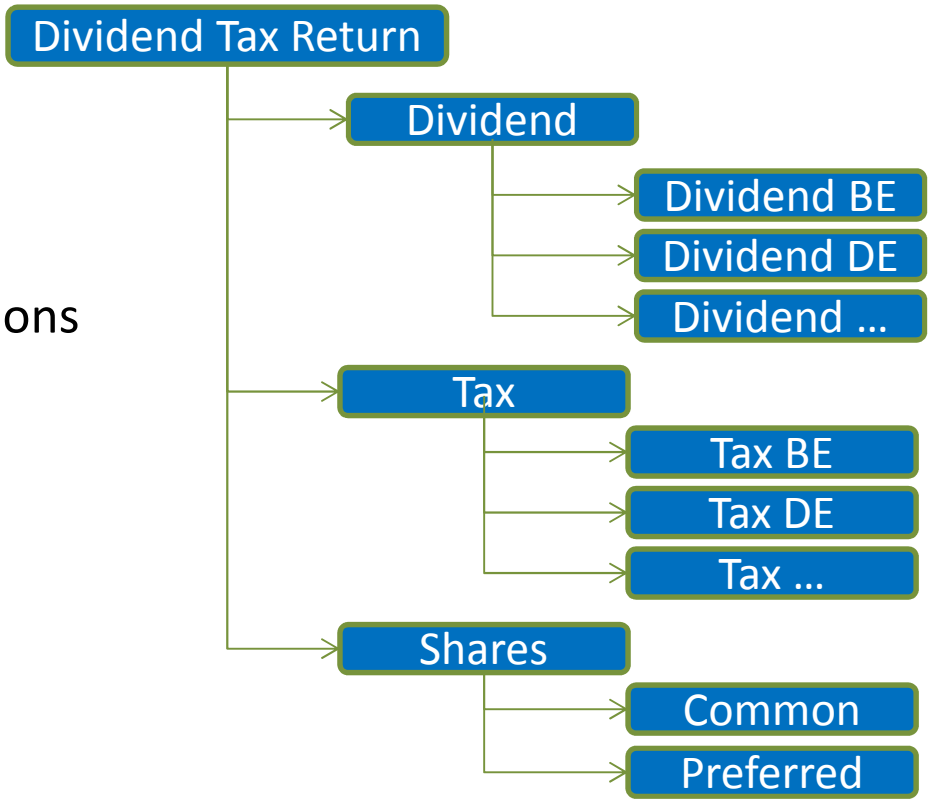


Business Rules

- Define/declare rules on contents of a report
  - Endvalue = Startvalue + mutations
  - IF reporting Y THEN X must be reported as well
  - …
- Validation of the contents of a report

Hierarchical presentation -1-

- Define a ‘tree’ structure in taxonomy
  - ‘parent – child’ relationships between concepts
  - Optional ‘titles’ to group
  - No actual layout definition
  - No standard way to handle dimensions



Hierarchical presentation -2-

- Actual report
  - Reported facts

Concept	Date	Value
Dividend BE	01/01	10
Dividend BE	31/12	15
Dividend DE	01/01	20
Dividend DE	31/12	17
…		
Tax BE	01/01	30
Tax BE	31/12	25
Tax DE	01/01	40
Tax DE	31/12	45
…		
Common Shares	01/01	20
Common Shares	31/12	25
Preferred Shares	01/01	30
Preferred Shares	31/12	35

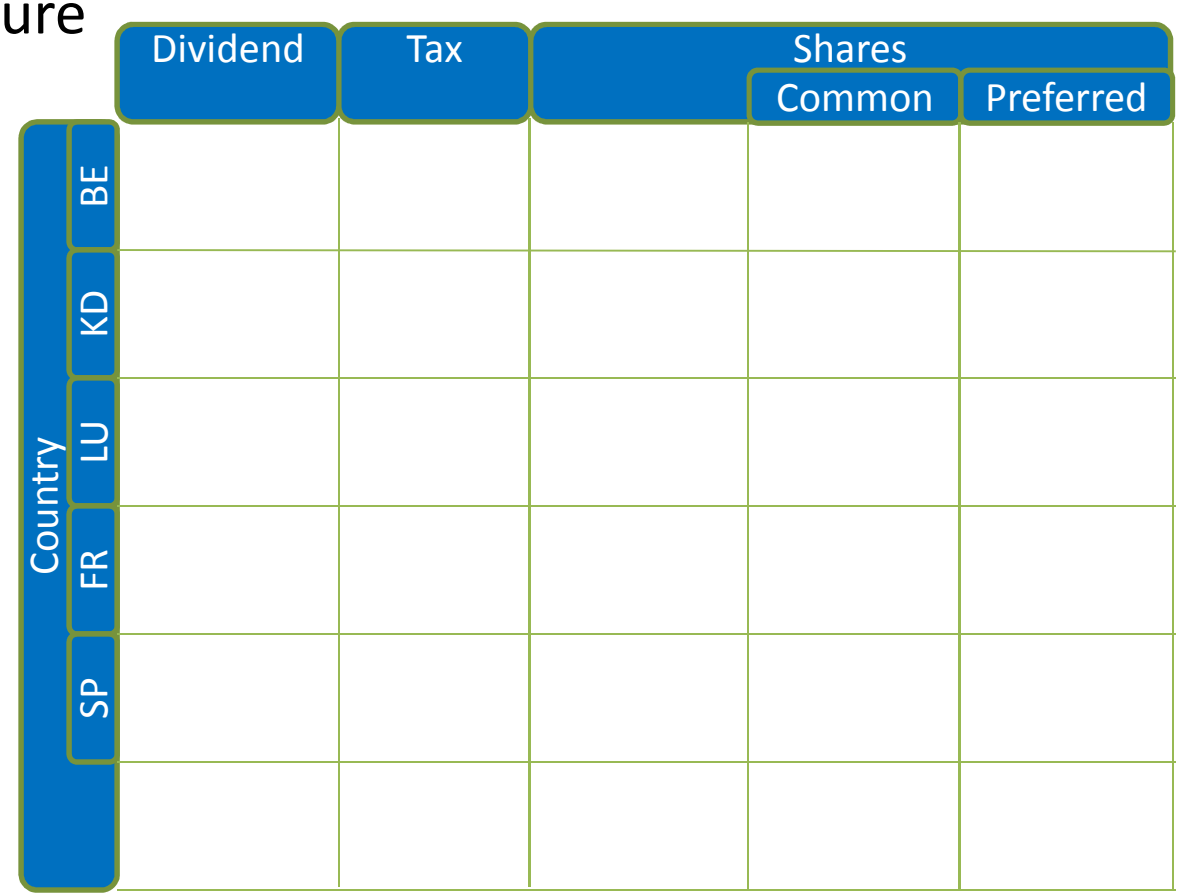
Hierarchical presentation -3-

- Report presentation
  - Reported facts for concepts in hierarchy
  - Layout application specific, one example in separate columns for each date

	01/01	31/12
Dividend Tax Return		
Dividend		
Dividend BE	10	15
Dividend DE	20	17
…		
Tax		
Tax BE	30	25
Tax DE	40	45
…		
Shares		
Common	20	25
Preferred	30	35

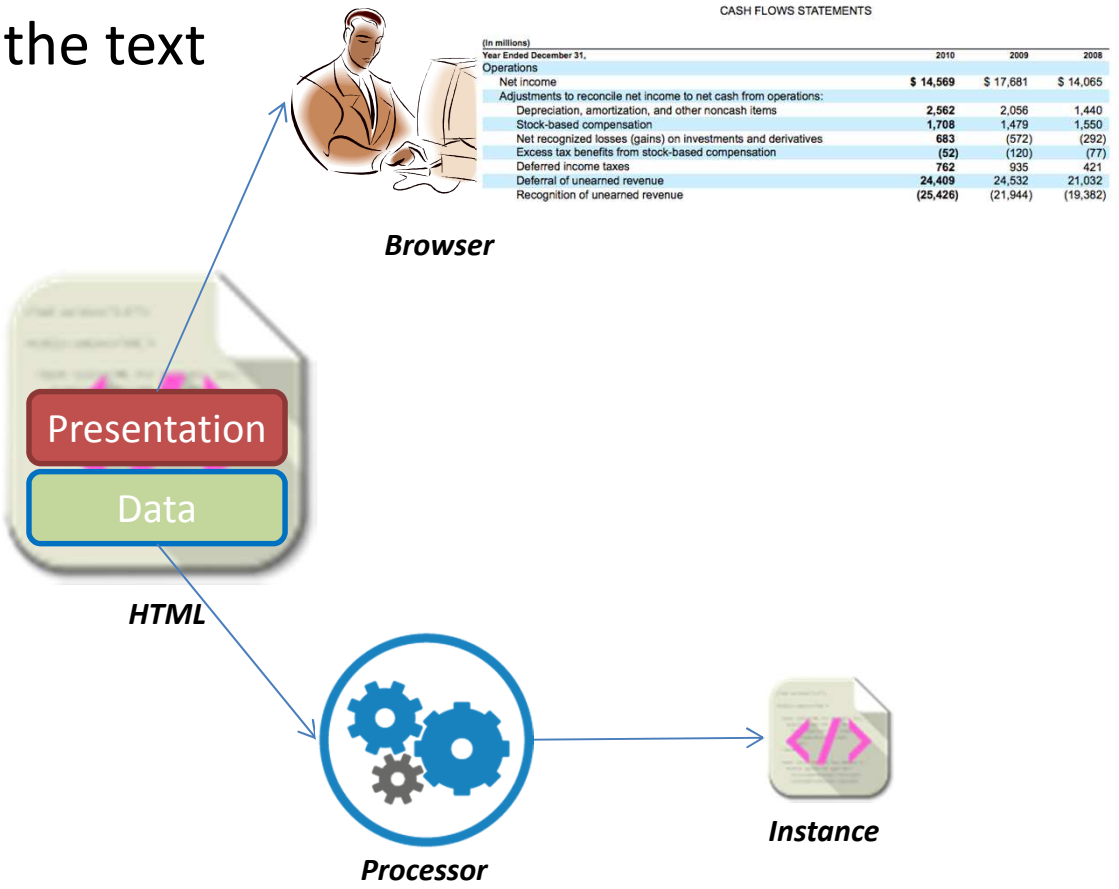
Table presentation

- Define a ‘table’ structure in taxonomy
  - Axes
  - Multiple headers
  - Dimensions
  - Totals
  - Layout determined by definition

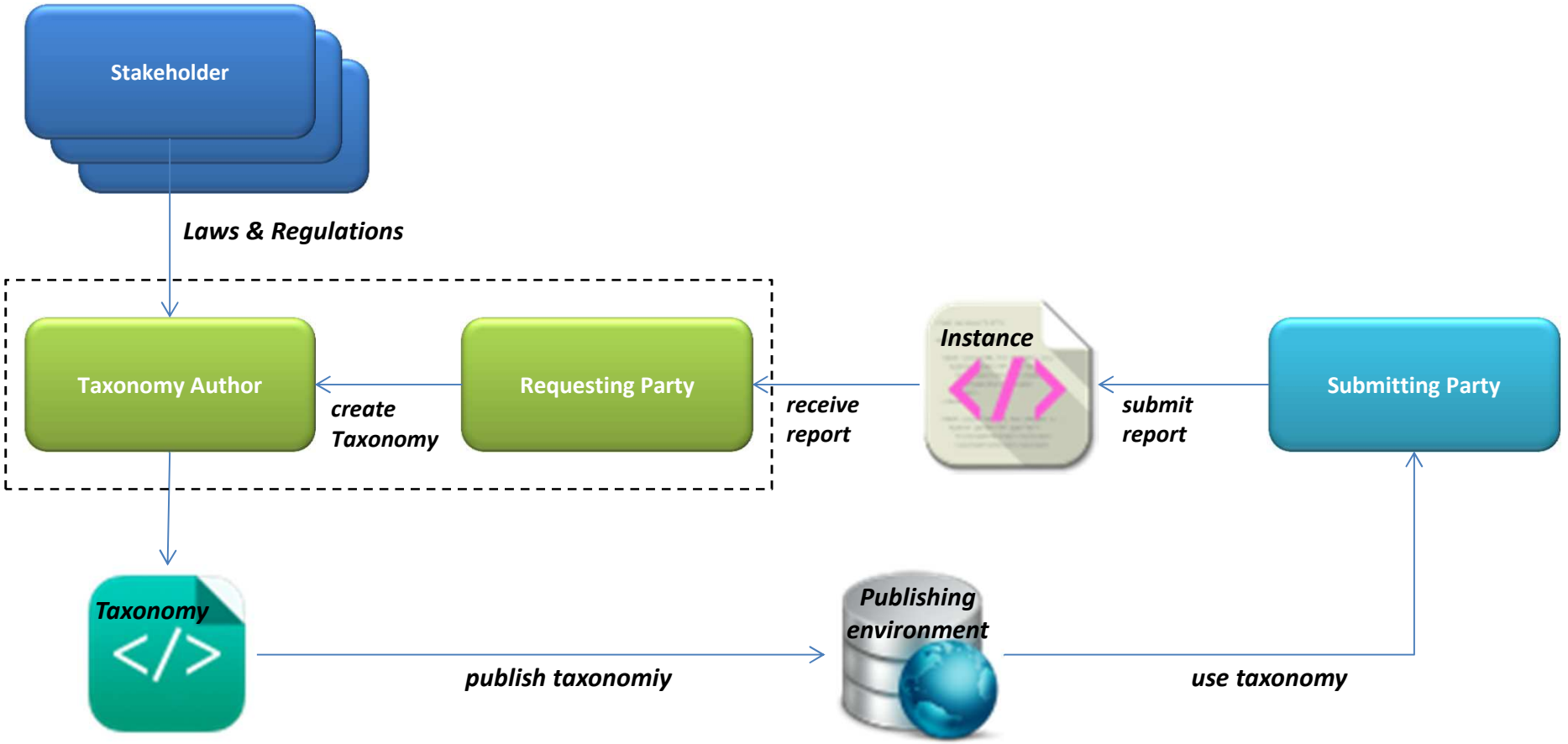


Formatted text - Inline XBRL

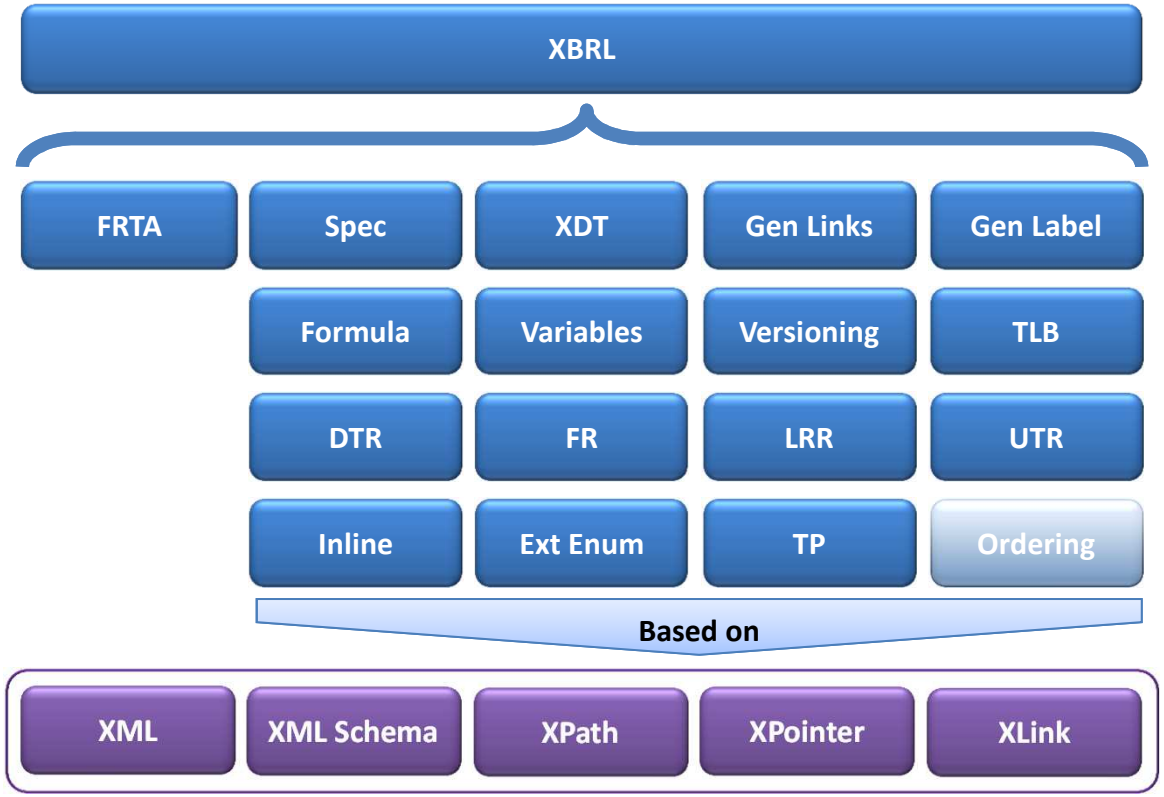
- HTML page with facts in the text
  - Requires extra syntax
  - User readeable
  - Requires extraction of facts for automated processing



Process

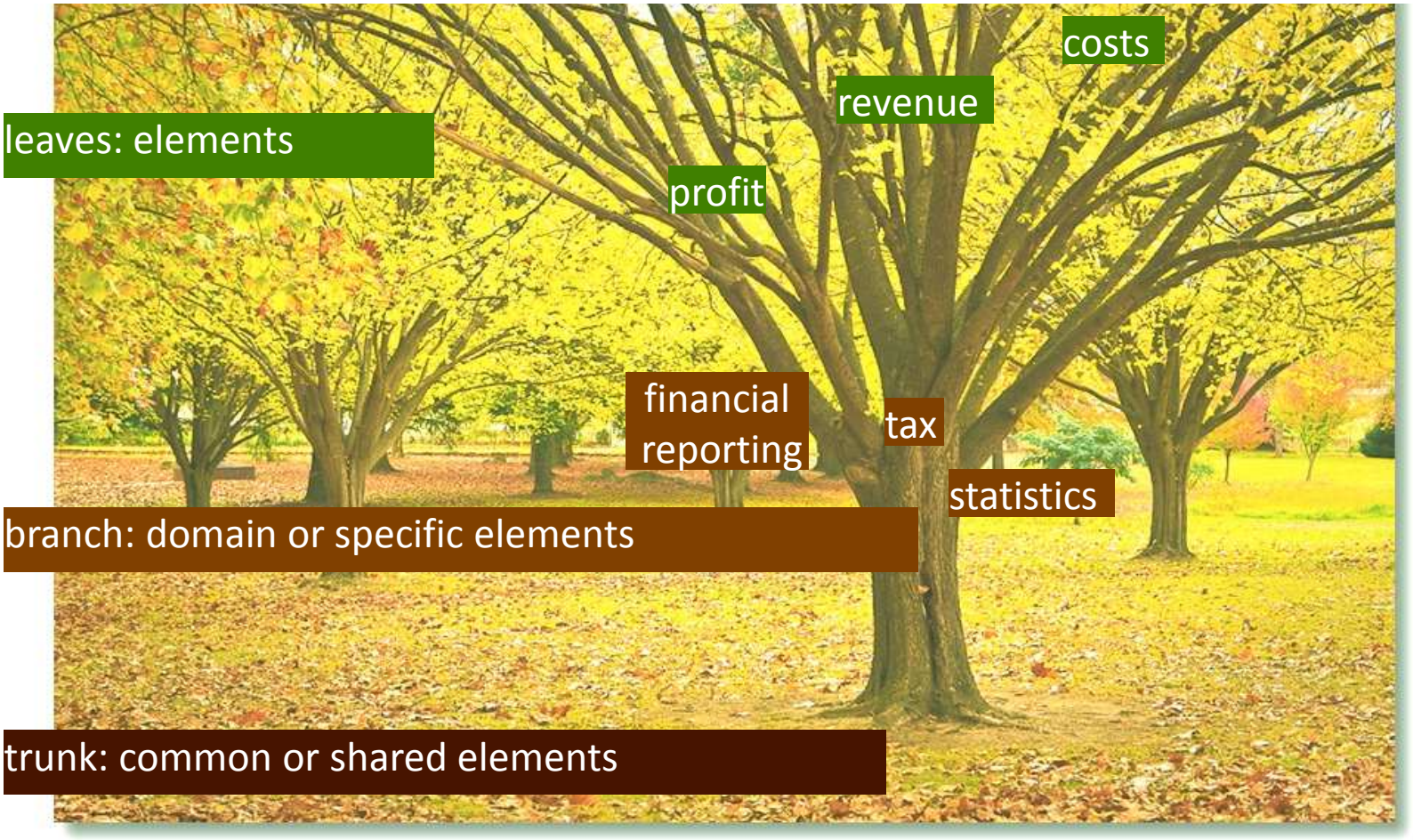

Stakeholder
Laws & Regulations
Taxonomy Author
create Taxonomy
Requesting Party
receive report
Instance
submit report
Submitting Party
Taxonomy
publish taxonomiy
Publishing environment
use taxonomy

XBRL as compound standard

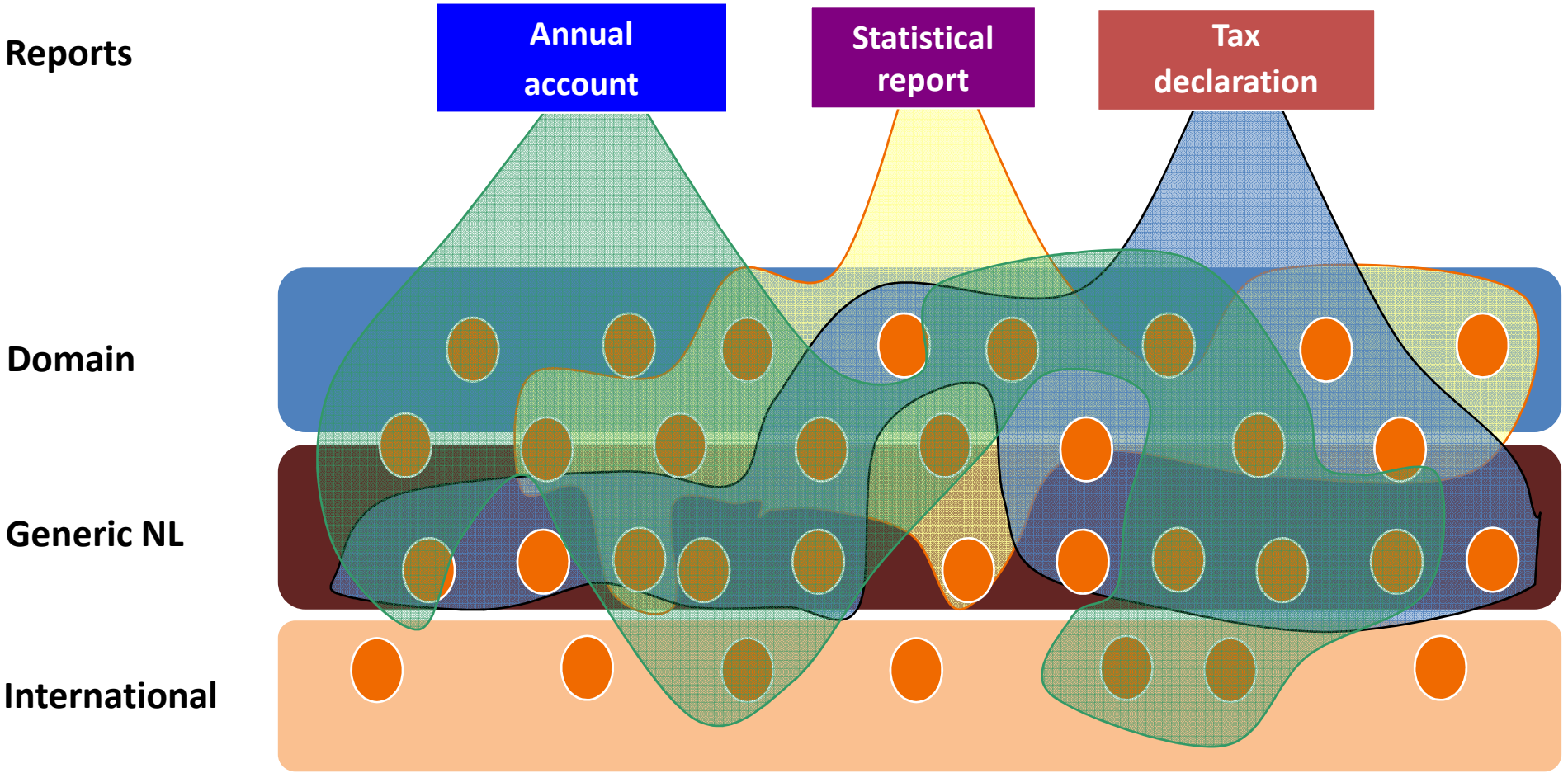


Architecture

“The taxonomy is like a tree”



Harmonisation and standardisation



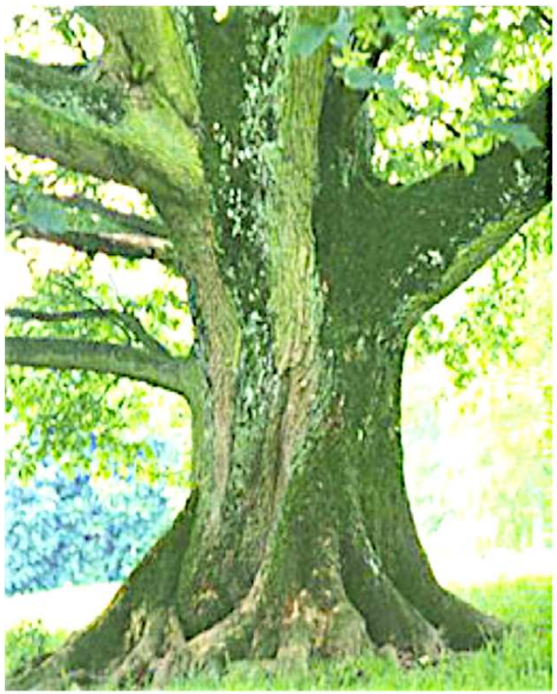
XBRL taxonomy architecture

- Because the XBRL spec. 2.1 is flexible you have many solutions for one problem
  - multi domain
  - multi agency

- XBRL projects have different goals. We believe that taxonomy design should be based on our project goals.
  - glue the taxonomy pieces together
  - ‘plug and play’ new extensions (‘branches’)

Core taxonomy and extensions

- Key data processes
  - Adding new domains
  - Normalization
  - Harmonization



Re-use

Little re-use

Questions?

Logius
Ministerie van Binnenlandse Zaken en Koninkrijksrelaties

Digipoort

-Standard Business Reporting
-Dividend Withholding Tax

October 12, 2016

Introductie

Jasper Misset

Connection team
EBPI

Delivers support to organisations with setting up a connecting to Digipoort

Logius
Ministerie van Binnenlandse Zaken en Koninkrijksrelaties

Digipoort

- Why use Digipoort?
- What is Digipoort?
- How to exchange messages with Digipoort?
- Certificates

Why use Digipoort?

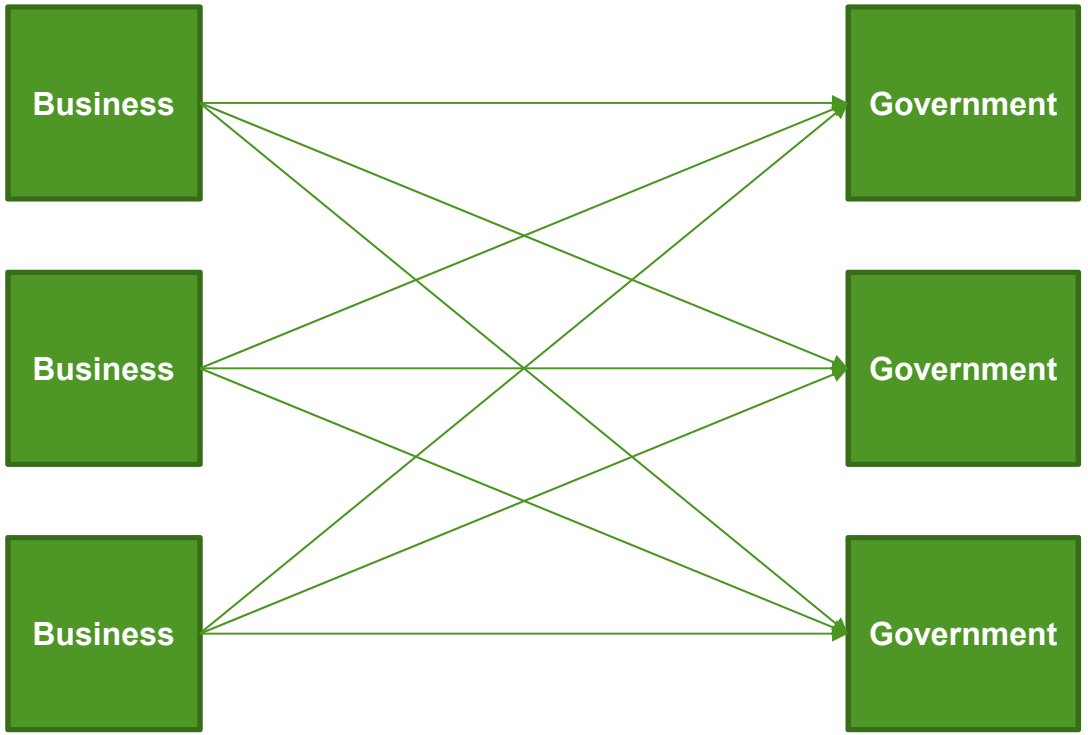
Why Digipoort?

Electronic messaging

- Fast
- Secure
- Reliable
- Efficient

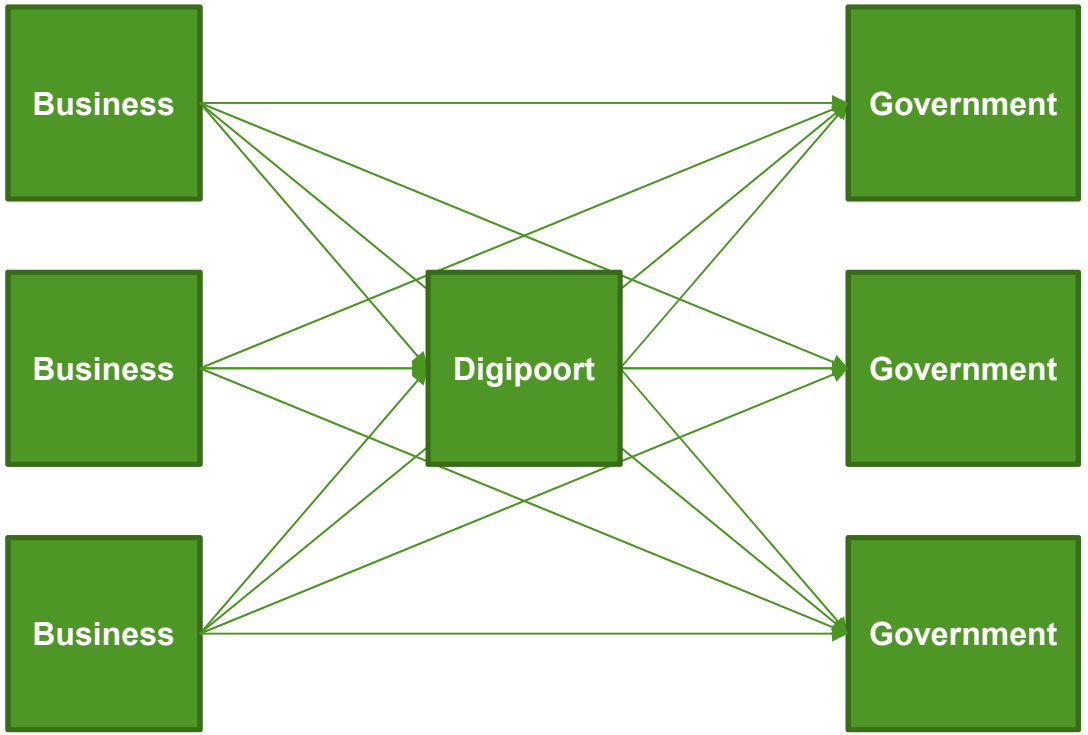
Why use Digipoort?

Without Digipoort



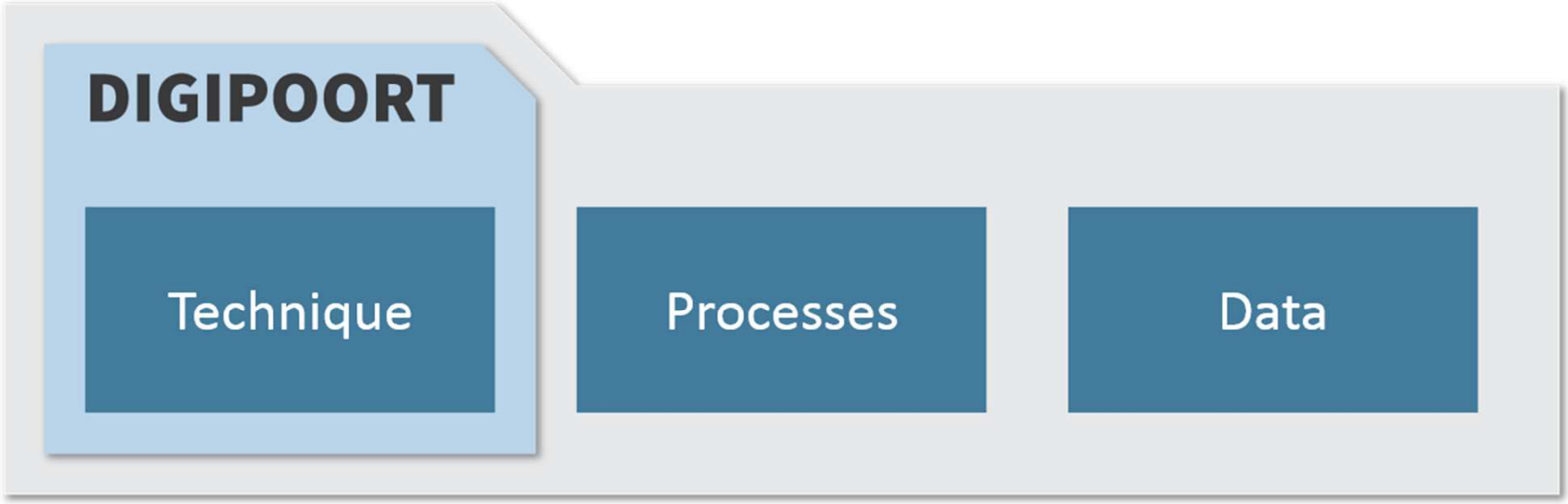
Why use Digipoort?

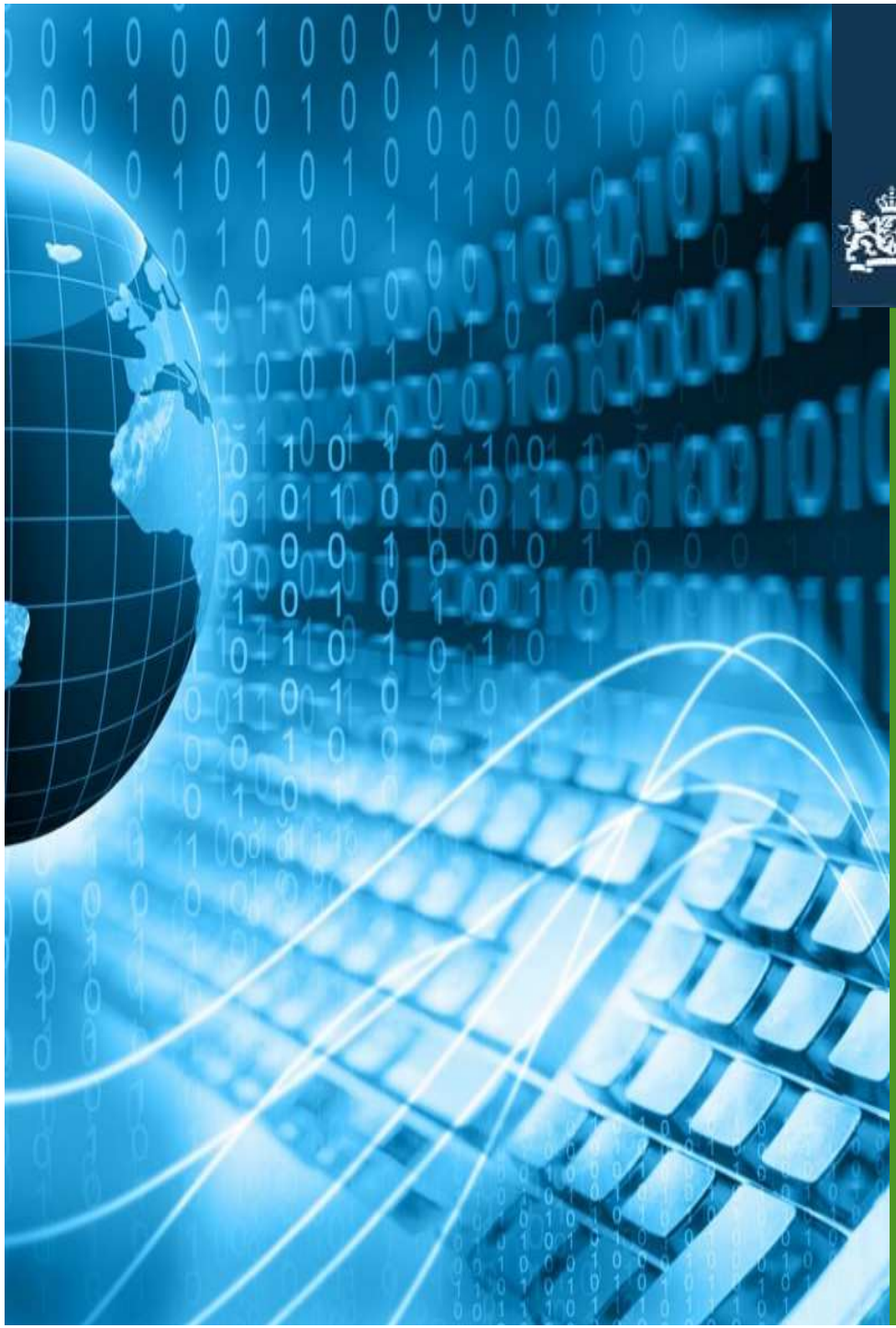
With Digipoort



Why use Digipoort?

Standardisation





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Ministerie van Binnenlandse Zaken en Koninkrijksrelaties

What is Digipoort?

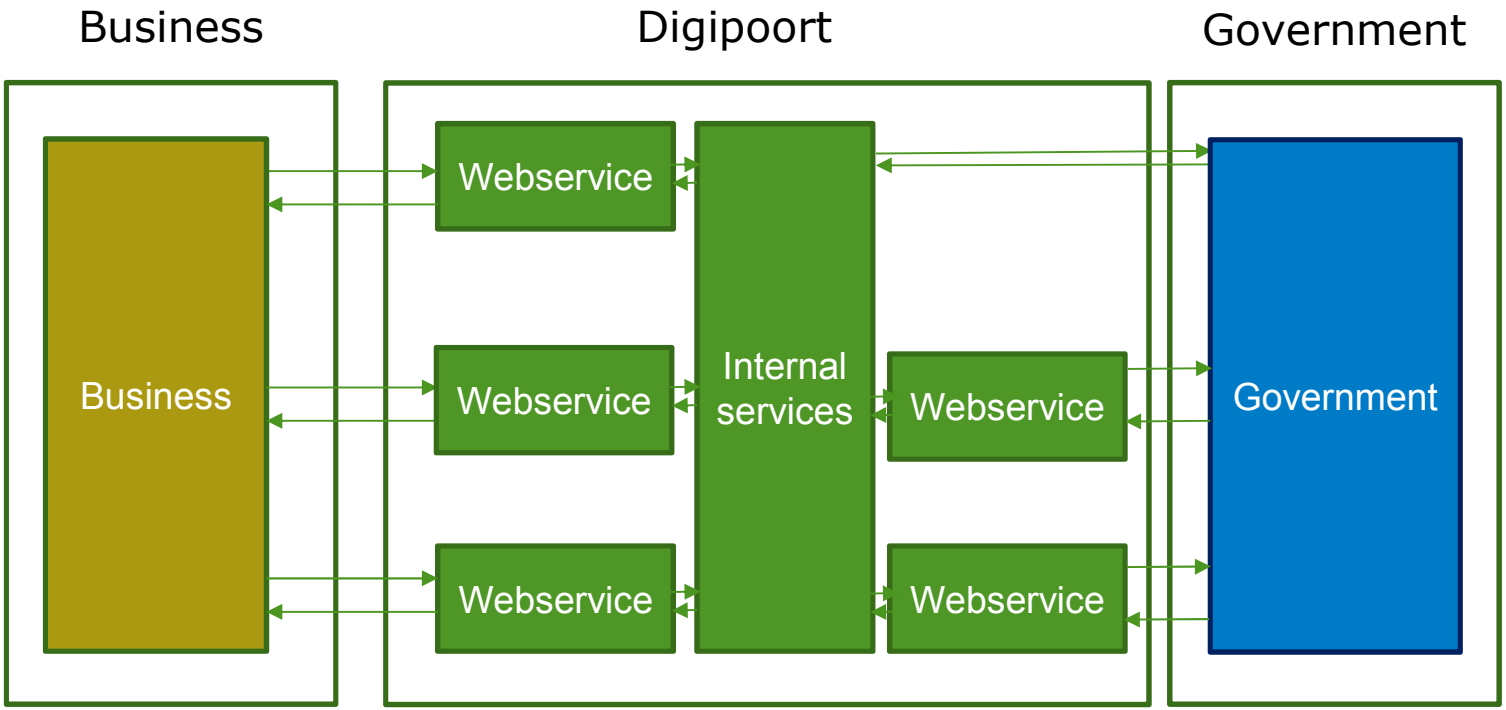
October 12, 2016

What is Digipoort?

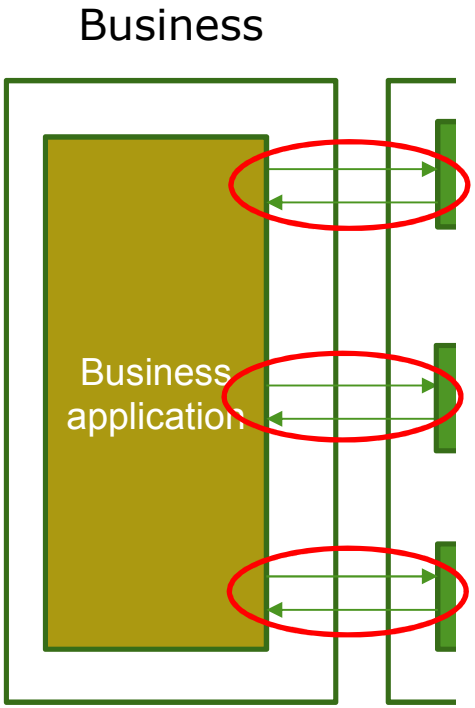
Electronic postoffice

- Primarily between businesses and government
- Webservices
- Internal Services (e.g. XBRL validation)
- Open standards (e.g. SOAP, XML, HTTPS)

What is Digipoort?



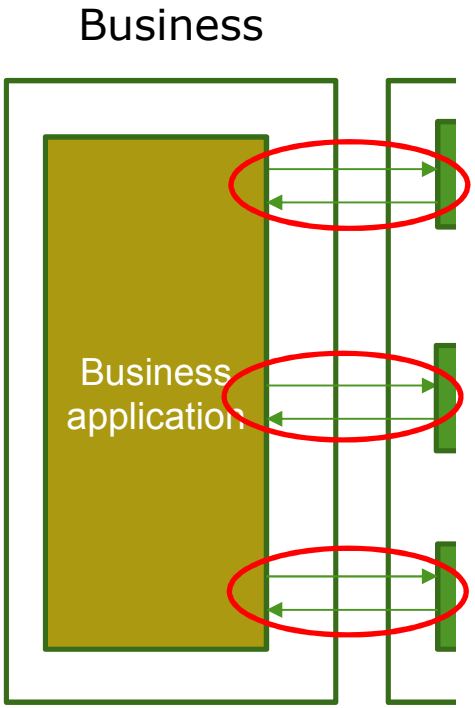
What is Digipoort?



Transport layer:

- TCP/IP
- HTTPS
- Two-way TLS (mutual trust)
- Synchronous

What is Digipoort?



Message layer:

- SOAP
- XML
- WS-Security
- WS-Addressing

Webservices

Interaction between softwaresystems

Open standards

- HTTPS
- XML

Webservices

WUS interface

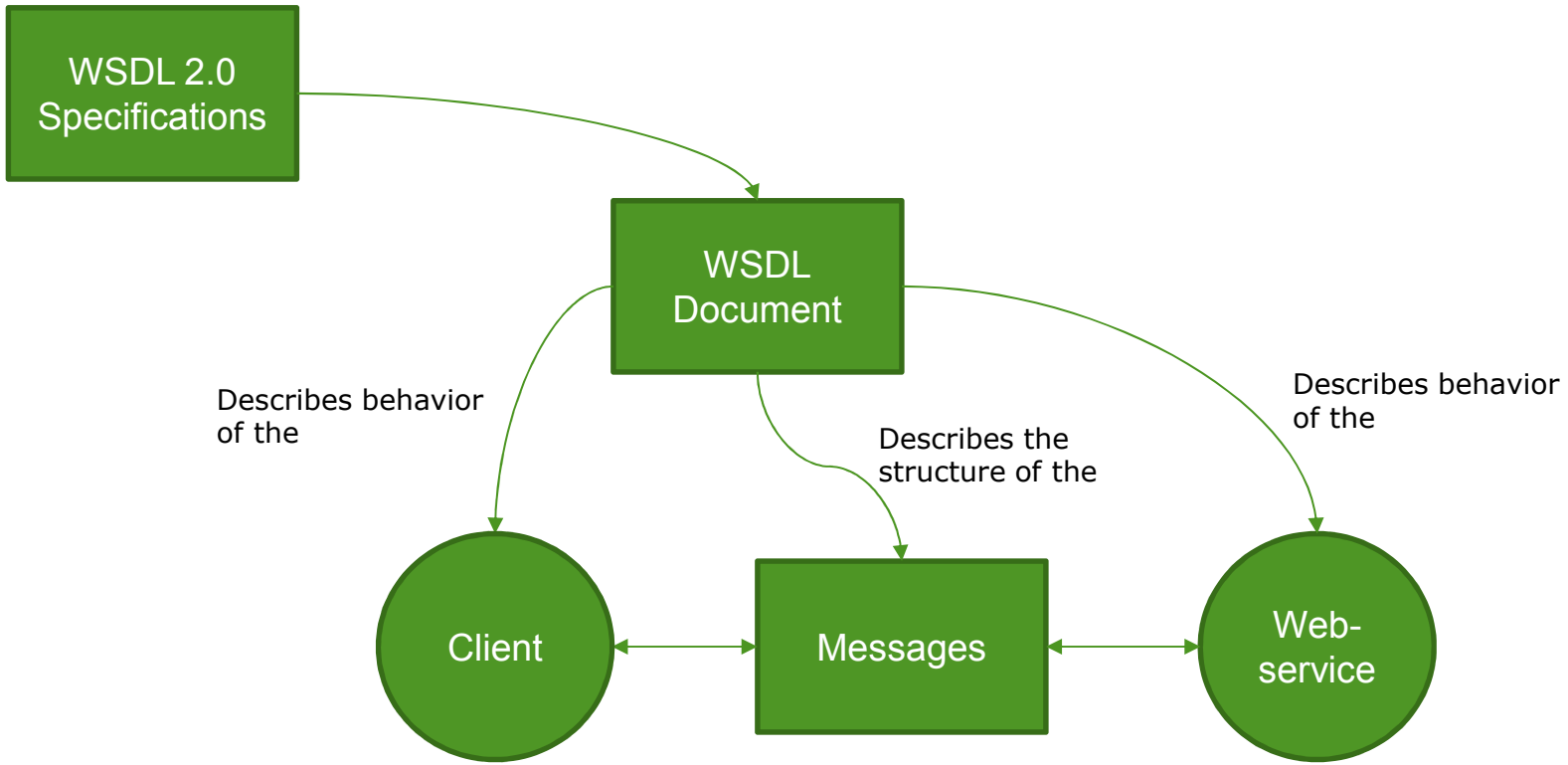
- **W**SDL
  - *Technical description of the webservice*
- **U**DDI
  - *Discovery of the webservice*
- **S**OAP
  - *Messaging using webservices*

WS-Security

WS-Addressing

Webservices

WSDL



Webservices

SOAP

Simple Object Access Protocol

- Communication
  - …in xml
  - …between softwaresystems
  - …over HTTP or HTTPS (in our case, HTTPS)

Webservices

WS-Security

XML signature

- Integrity
  - Altering message not possible after signature
- Authenticity
  - Message must have been sent by the signer

www.w3.org

Webservices

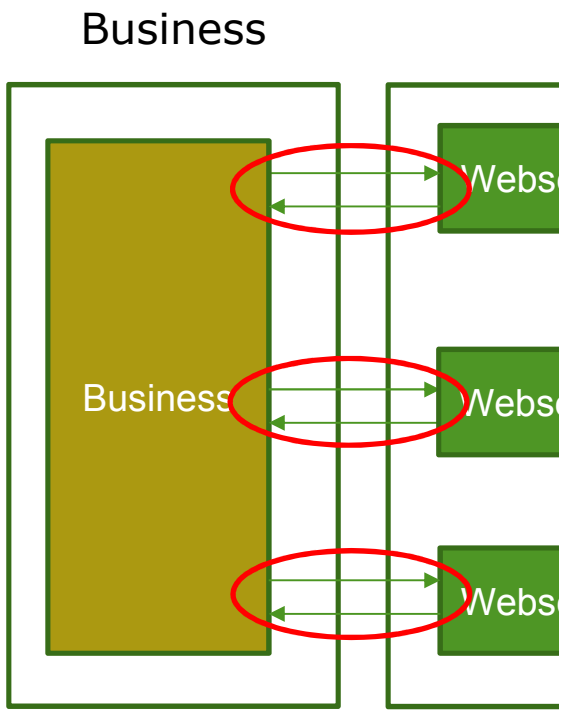
WS-Addressing

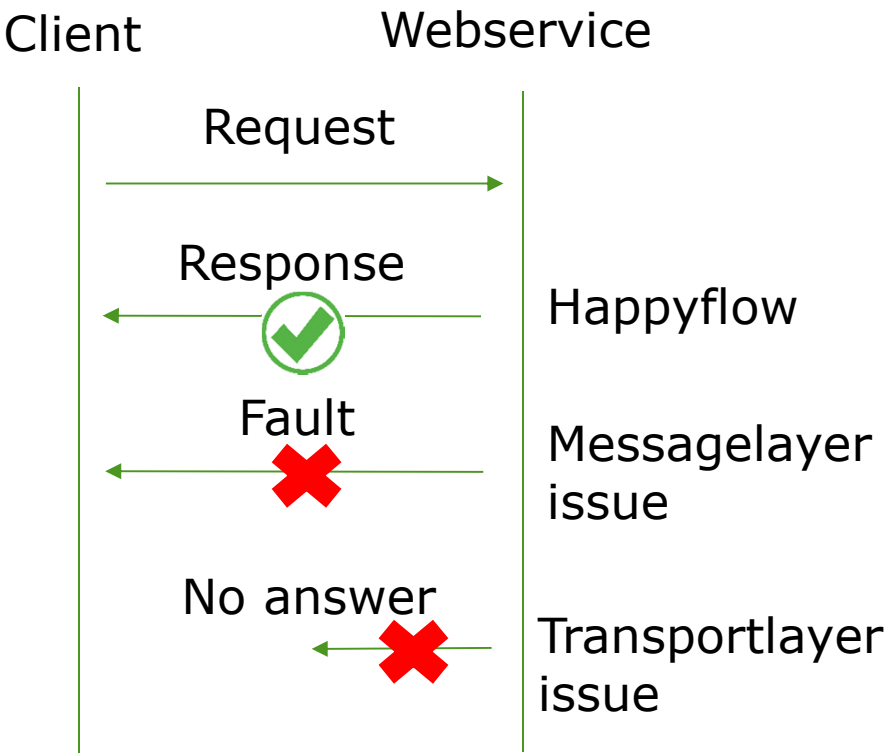
Routing of the messages

- Destination of the message
- Requested action
- Destination of the response
- Correlation between message and response

Webservices

Webservice conversation





Webservices

Documentation

ENG_Koppelvlakbeschrijving WUS 2.0 Bedrijven_v1.2

- General description of the WUS interface

Service descriptions

- Functional description of a specific webservice

WSDL

- Technical description of the webservice

XSD

- XML schema definition

Webservices

Summary

Open standards

- WSDL
- SOAP
- WS-Security
- WS-Addressing

Documentation

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Ministerie van Binnenlandse Zaken en Koninkrijksrelaties

What do you need to connect to Digipoort?

October 12, 2016

Connecting to Digipoort

You will need to:

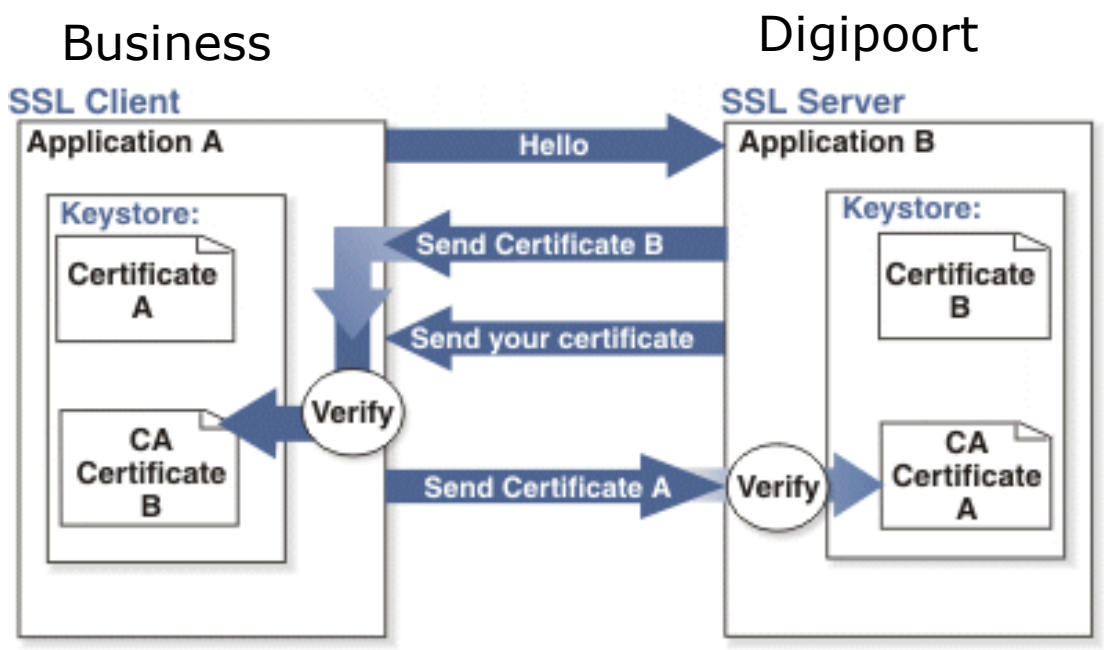
1. Establish a TCP/IP connection
2. Establish a two-way TLS connection
   a. Using a PKIo services server certificate
3. Send the Request
4. Process the Response

Establish a TCP/IP connection

- Digipoort Webservices listen on port 443
- Digipoort Webservices are open to all IP-addresses
- For our IP-addresses, see the documentation

Establish a two-way TLS connection

- Use TLS1.2
- Use a PKIo services server certificate
  - For testing, Logius testcertificate is ok



Send the SOAP Request

- Use HTTP POST
- Send a SOAP envelope
  - SOAP header containing WS-Security and WS-Addressing
  - SOAP body containing service-specific request

Process the SOAP Response…

- Receive a SOAP envelope
  - SOAP header containing WS-Security and WS-Addressing
  - SOAP body containing service-specific response
- Different webservices have different Responses
  - Process the content of the response message

…or Process the SOAP Fault

- Receive a SOAP envelope
  - SOAP header containing WS-Addressing
  - SOAP body containing service-specific fault
- Different webservices have different Faults
  - Process the content of the fault message

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Certificates

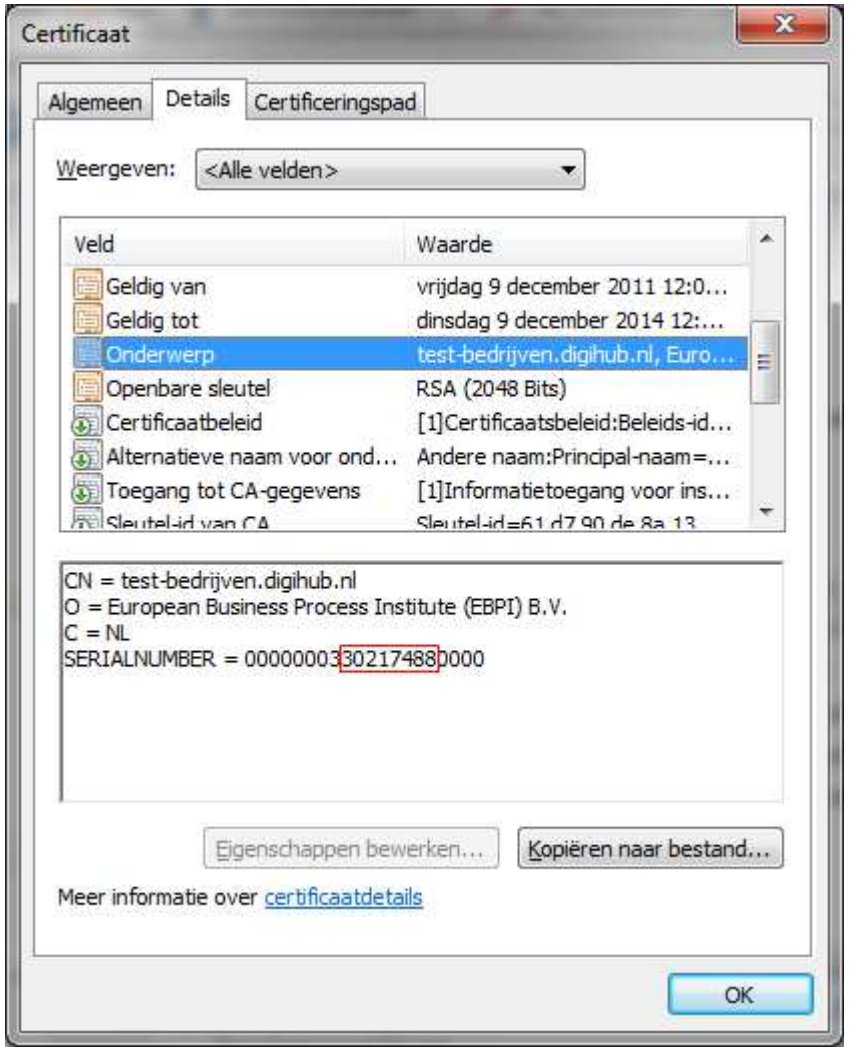
- What is a certificate?
- Obtaining a certificate
- Usage within Digipoort

Certificates

What is a certificate?

Electronic passport

- Name of the owner
- Public key of the owner
- Validity (startdate, enddate)
- Certificate Revocation List
- Hash of the certificate
- SERIALNUMBER containing identifying number of organization



Certificaten

What is a certificate?

PKIOverheid

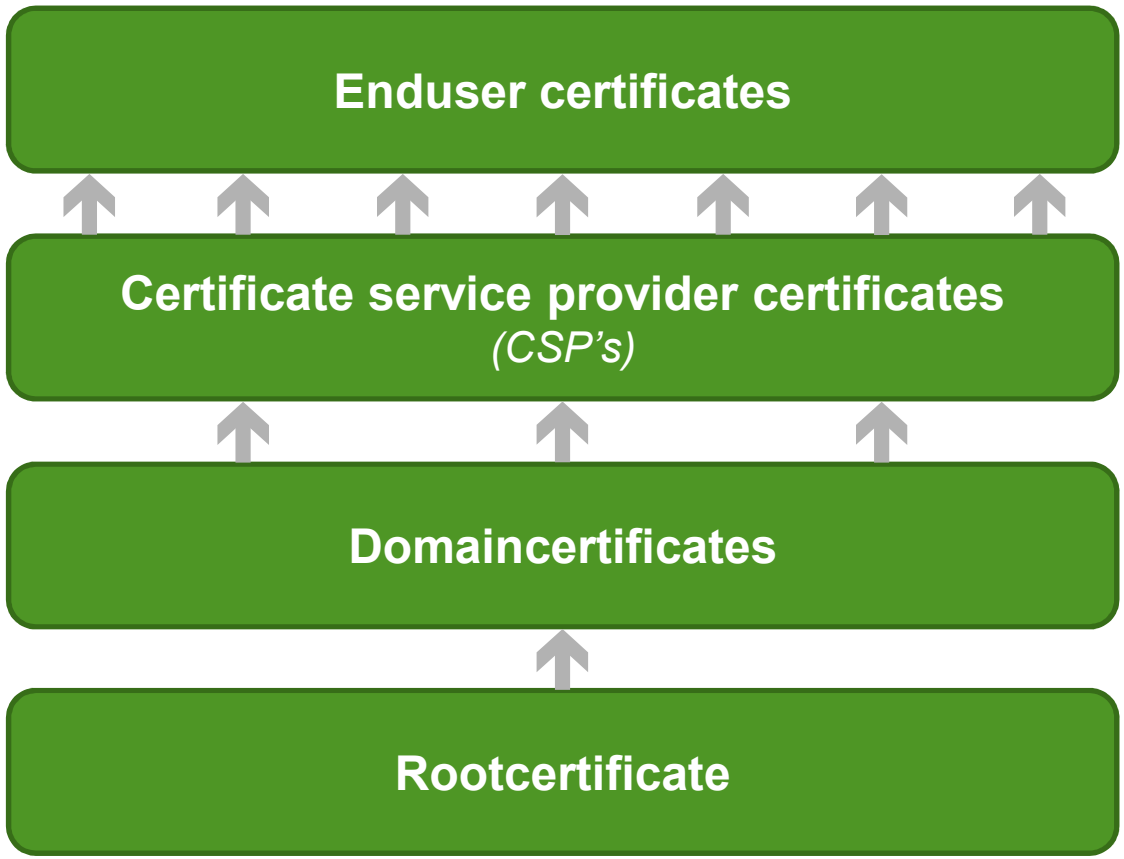
Public key infrastructure of the government

- PKIOverheid services certificate
- Reliable by law
- Specific CSP's

Certificates

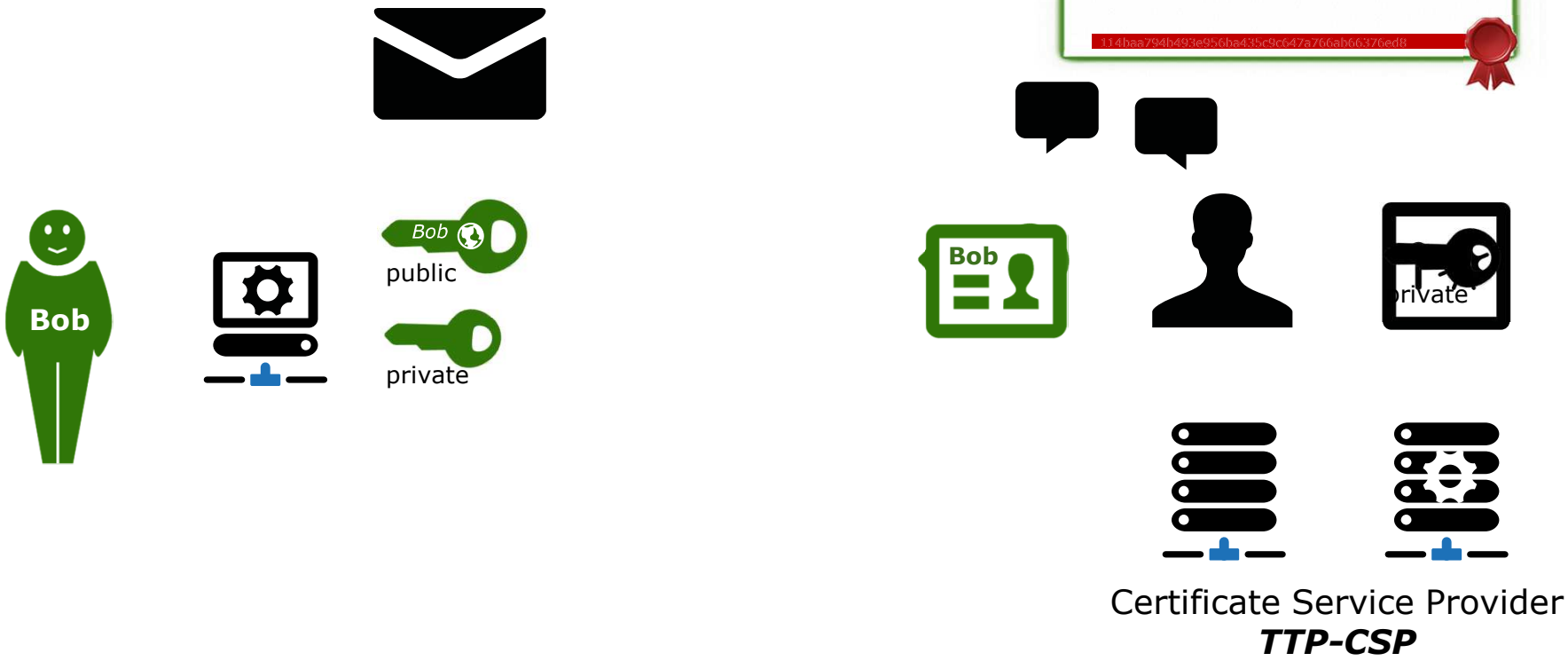
What is a certificate?

Chain of Trust



Certificates

Obtaining a certificate



Certificates

Usage within Digipoort

Establishing two-way TLS connection

- Determine identity
- Encryption of traffic

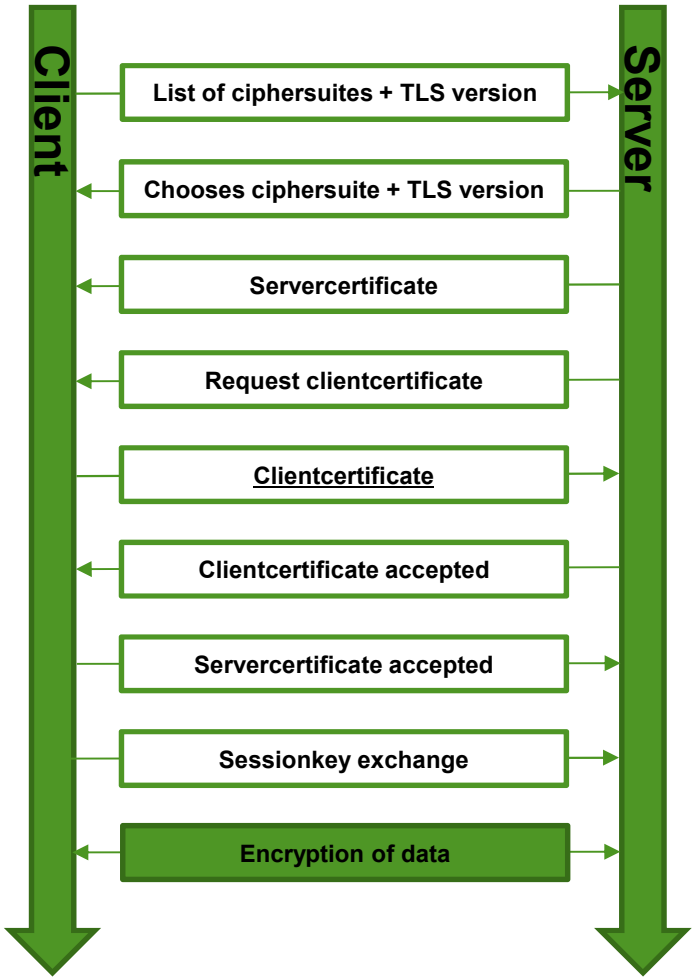
Generating an XML signature

- On the SOAP message (WS-Security)

Certificates

Usage within Digipoort

Establishing two-way TLS connection



Certificates

Usage within Digipoort

Adding an XML digital signature to a message

Guarantees reliability between:

- Sender - Digipoort
- Digipoort - Recipient

Certificates

Summary

- Identity
- Reliable
- PKIO services server certificate
- Encryption
- Signature

PKIo services server certificate

- KvK-number (Chamber of commerce number) is the standard in PKIo services server certificates
- Foreign companies have no KvK-number and need to use the FI-number (Fiscal number from the DTA)
- If using Digipoort for DWT, the FI-number needs to be registered in the Logius OIN (Overheid Identificatie Nummer) register, register of Government Identification Numbers.
  - DTA will register your number in the register

PKIo services server certificate

What foreign organizations need to do:

If a KvK-number is available

- no extra actions and registration is needed

If no KvK-number is available

- Inform the Certificate Service Provider (CSP) that:
  - you need a PKIo services certificate based on a FI-number
  - your FI-number is registered in the Logius “OIN register”

PKIo services server certificate

Requirements for acquiring a PKIo certificate:

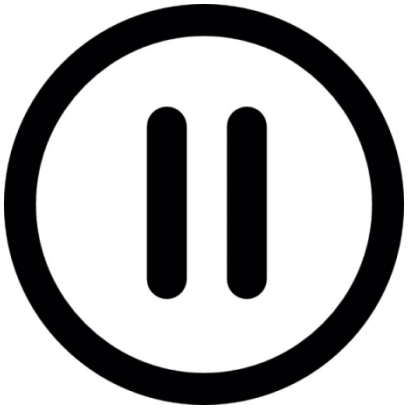
- Proof of name and existence of organization of (locale) Chamber of Commerce
- A copy of the identity of the certificate manager
- If wanted a representative of the certificate manager can be appointed.
- This person needs to be authorized and a copy of his/her identity is needed
- Face to face check
  - By a notary in your country
  - By representative in NL
  - Check the possibilities with the CSP (Certificate Service Provider)

PKIo services server certificate

Current CSP's for PKIo certificates

- Digidentity (www.digidentity.eu)
- ESG (www.de-electronische-signatuur.nl)
- KPN (certificaat.kpn.com)
- QuoVadis (www.quovadisglobal.nl)

Pause



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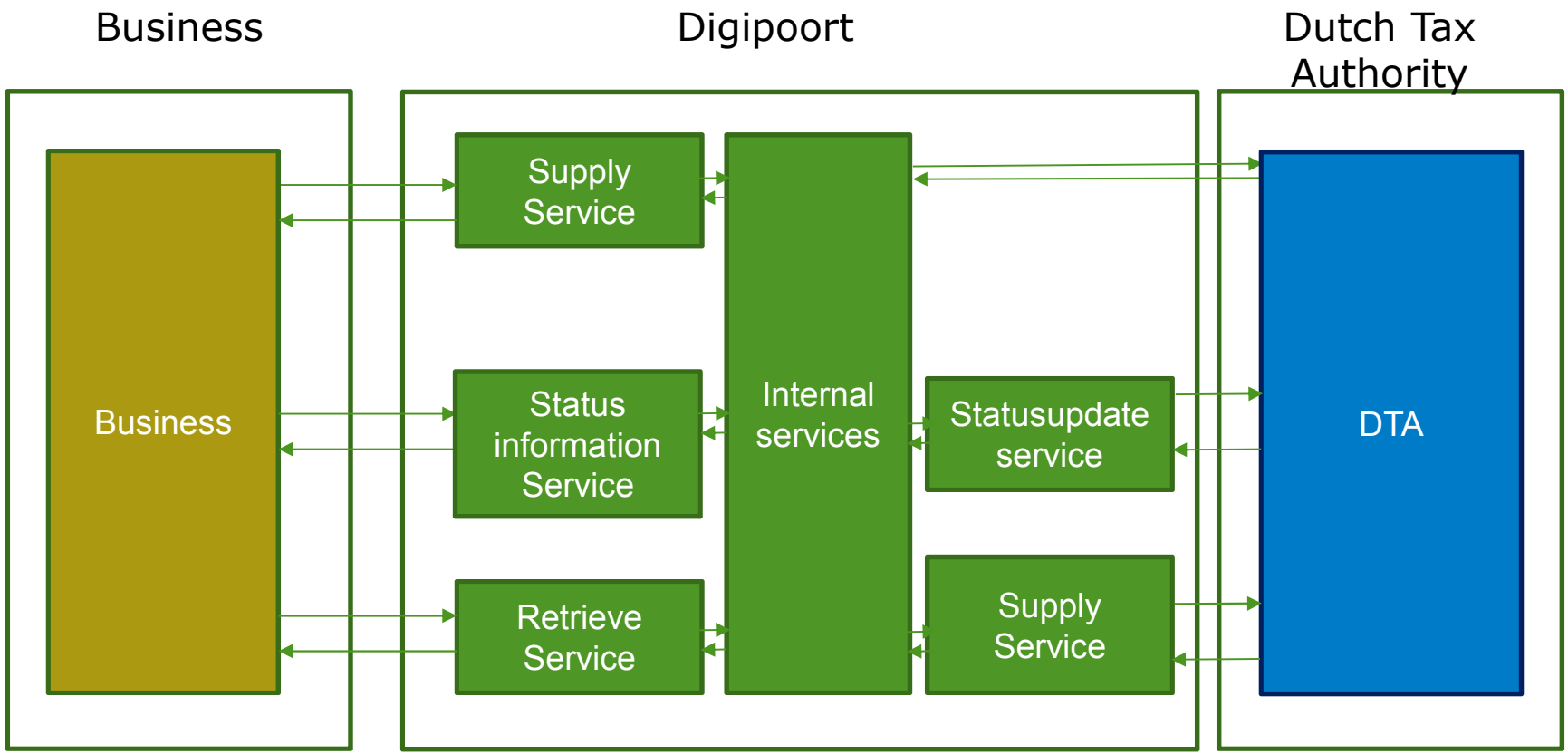
The technique behind Digipoort (for DWT)

- Digipoort
  - Processes
  - Services
  - Statusses

October 12, 2016

The technique behind Digipoort (for DWT)

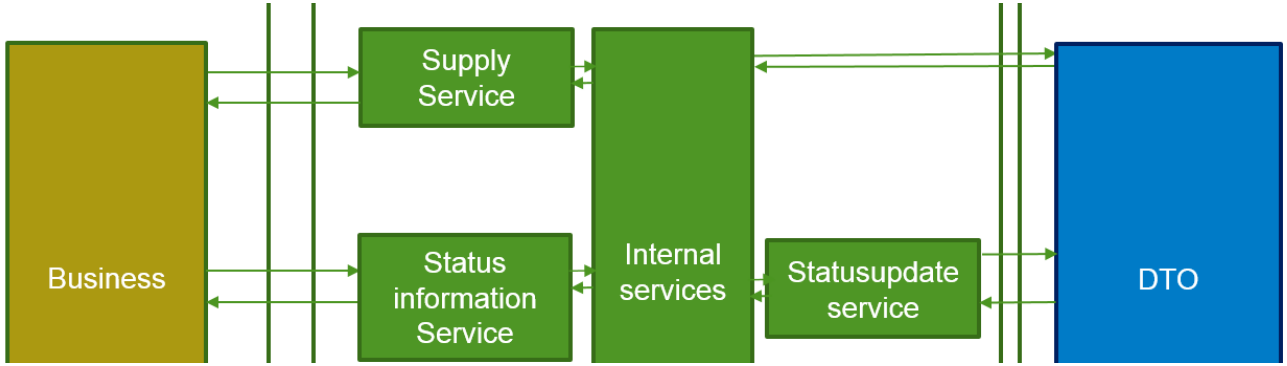


The technique behind Digipoort (for DWT)

Processes

Supply process

- Sending an XBRL message to Digipoort
  - Registration BO and Collective Reclaim
- Checking the status of the message

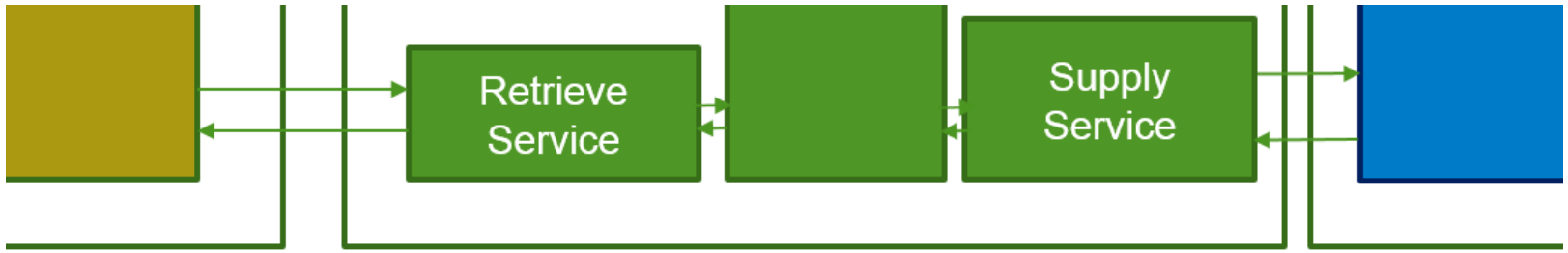


The technique behind Digipoort (for DWT)

Processes

Retrieve process

- Retrieving an XBRL message from Digipoort
  - Confirmation and Collective Decree



Services

Three different webservices

Supply Service

- Supplying the message to Digipoort

Statusinformation Service

- Requesting the status of the supplied message

Retrieve Service

- Retrieving message from Digipoort

Services

Three different webservices

Supply Service
Statusinformation Service
Retrieve Service

Same principal:
Send Request
Receive Response/Fault

Services

WS-Security

Open standard of www.w3.org

Enveloped signature

Elements:

<Security>

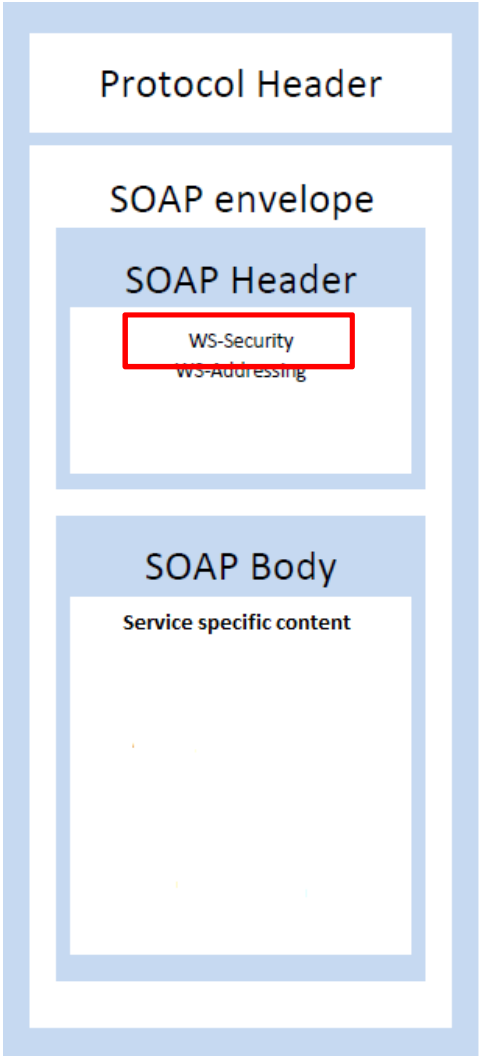
<BinarySecurityToken/>
Contains base64 encoded certificate

<Timestamp/>
Timestamp of signature

<Signature/>

Contains multiple hash values and signaturevalue

</Security>



Services

WS-Security

```
<wsu:Timestamp wsu:Id="TS-43">
  <wsu:Created>2013-03-01T10:26:42.167Z</wsu:Created>
  <wsu:Expires>2013-03-01T10:36:42.167Z</wsu:Expires>
</wsu:Timestamp>


<ds:Reference URI="#TS-43">
  <ds:Transforms>
    <ds:Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#">
      <ec:InclusiveNamespaces PrefixList="wsse wsa ns soapenv"
      xmlns:ec="http://www.w3.org/2001/10/xml-exc-c14n#"/>
    </ds:Transform>
  </ds:Transforms>
  <ds:DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
  <ds:DigestValue>68HSeXtXmRiv1P/vh7h515c9Shk=</ds:DigestValue>
</ds:Reference>
```

Services

WS-Addressing

Open standard of www.w3.org

Elements:

<Addressing>

<Action/>

Contains the action which is being called

<Message-ID/>

Unique identifier of the message (uuid)

<To/>

Contains the endpoint of the web service

<ReplyTo/>

Optional field. See WSDL.

</Addressing>

See WSDL for the specific content

Supply Service

Dutch: AanleverService

Used to send an XBRL instance to Digipoort

DWT_Collective_Reclaim
DWT_Registration_BO

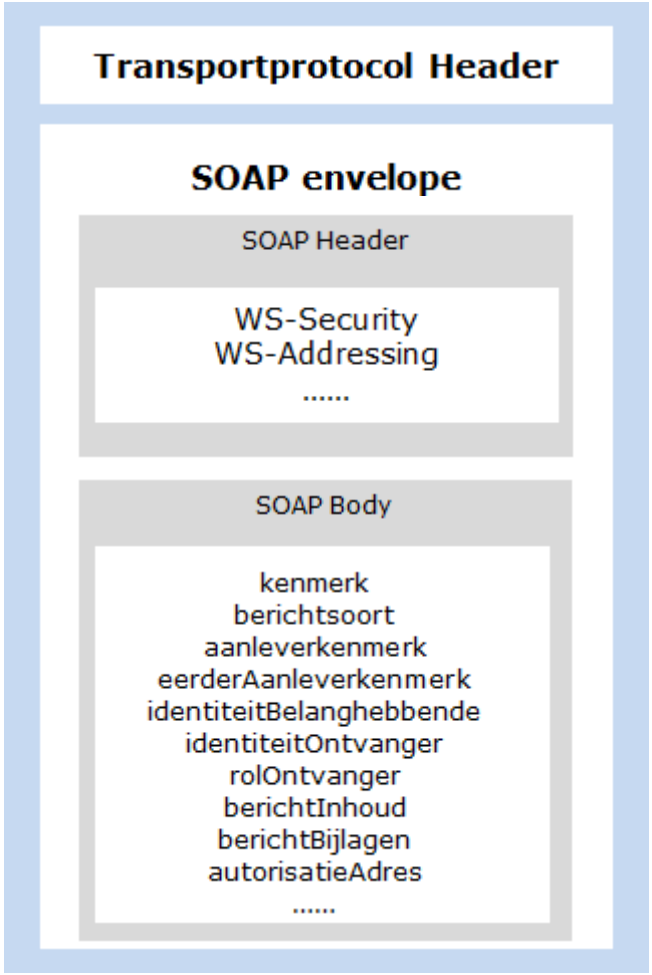
Size limit for DWT = 5 MiB (including base64 encoding + soap envelope)
Base64 encoding ≈ 33% file size increase
Size limit XBRL instance ≈ 3,5 MiB

MiB (mebibyte) = 1.048.576 bytes
MB (megabyte) = 1.000.000 bytes

Supply Service

AanleverRequest

```
<soap:Envelope>
        <soap:Header>
                <wss:Security />
                <wsa:Addressing />
        </soap:Header>
        <soap:Body>
                <aanleverRequest />
        </soap:Body>
</soap:Envelope>
```



Supply Service

Element / childelement	Translation	Content
berichtsoort	Message type	DWT_Collective_Reclaim or DWT_Registration_BO
aanleverkenmerk	supplier reference number	Optional reference number for your own administration
identiteitBelanghebbende / nummer	Identity stakeholder / number	The FI number (must match identifier in XBRL instance)
identiteitBelanghebbende / type	type	FI
rolBelanghebbende	Role stakeholder	Intermediar
berichtInhoud / mimeType	Message content / mimeType	text/xml
berichtInhoud / bestandsnaam	Filename	Name of the XBRL file
berichtInhoud / inhoud	Content	Base64 encoded XBRL instance

Supply Service

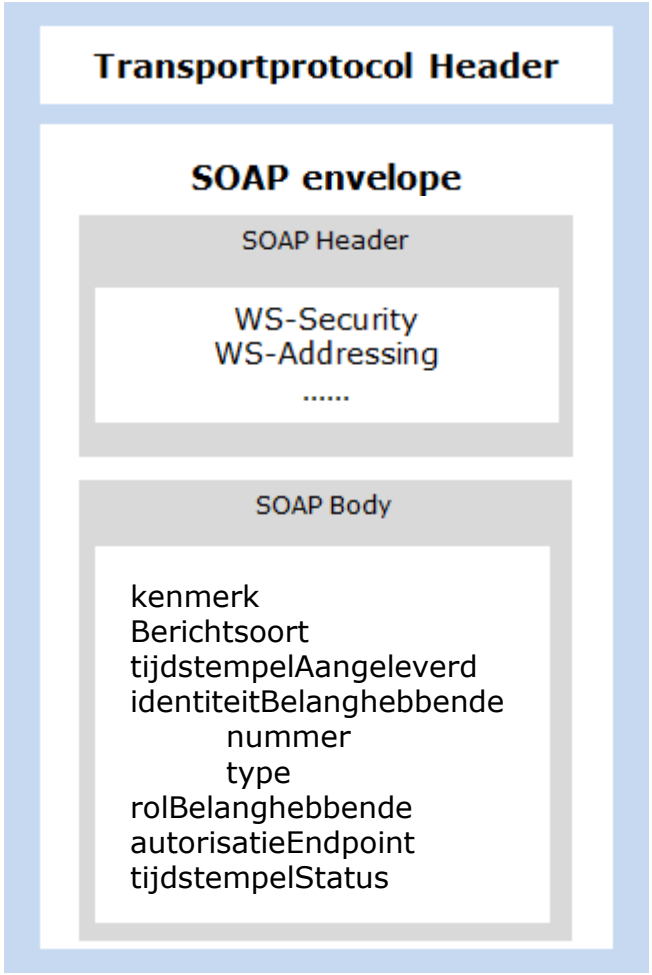
AanleverRequest

```
<soap:Envelope>
        <soap:Header>
                <wss:Security />
                <wsa:Addressing />
        </soap:Header>
        <soap:Body
                <ns:aanleverRequest>
                        <ns:berichtsoort>DWT_Registration_BO</ns:berichtsoort>
                        <ns:identiteitBelanghebbende>
                                <ns:nummer>123456789</ns:nummer>
                                <ns:type>Fi</ns:type>
                        </ns:identiteitBelanghebbende>
                        <ns:rolBelanghebbende>Intermediair</ns:rolBelanghebbende>
                        <ns:berichtInhoud>
                                <ns:mimeType>text/xml</ns:mimeType>
                                <ns:bestandsnaam>DWT_message_1.xbrl</ns:bestandsnaam>
                                <ns:inhoud>eGJybCBpbnN0YW5jZQ==</ns:inhoud>
                        </ns:berichtInhoud>
                </ns:aanleverRequest>
        </soap:Body>
</soap:Envelope>
```

Supply Service

AanleverResponse

```
<soap:Envelope>
        <soap:Header>
                <wss:Security />
                <wsa:Addressing />
        </soap:Header>
        <soap:Body>
                <aanleverResponse />
        </soap:Body>
</soap:Envelope>
```



Supply Service

AanleverResponse

WS-Addressing

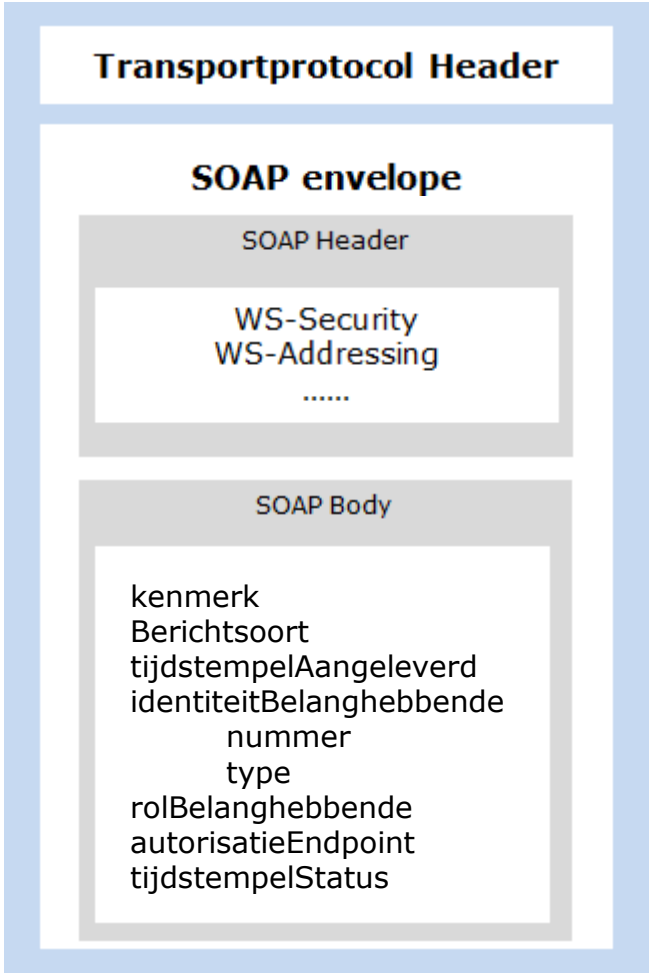
Differences in relation to request

- RelatesTo instead of ReplyTo
  - Contains messageId of Request
- Content of the body

Supply Service

AanleverResponse

```
<soap:Envelope>
        <soap:Header>
                <wss:Security />
                <wsa:Addressing />
        </soap:Header>
        <soap:Body>
                <aanleverResponse />
        </soap:Body>
</soap:Envelope>
```



Supply Service

AanleverResponse

Element: kenmerk

Characteristics:

- *Unique identifier of the supply process*
- *Needs to be used in the Statusinformation service*
- *Logius will ask for this identifier when asked for support*

Example:

<*ns:*kenmerk>
bbc212a2-594e-4079-a75f-6916db6c1802
</*ns:*kenmerk>

Supply Service

AanleverResponse

Element: tijdstempelAangeleverd

Characteristics:

- Required: Yes
- *When the message has been processed by the DTA succesfully, this timestamp will be the official time of delivery.*

Example:

<*ns:*tijdstempelAangeleverd>
2016-10-01T00:00:00.000Z
</*ns:*tijdstempelAangeleverd>

Supply Service

AanleverResponse

Element: berichtsoort
Element: identiteitBelanghebbende
Element: rolBelanghebbende

The content will be identical to the content of the Request

Supply Service

AanleverResponse

```
<soap:Envelope>
        <soap:Header>
                <wss:Security />
                <wsa:Addressing />
        </soap:Header>
        <soap:Body
                <ns:aanleverResponse>
                        <ns:kenmerk>bbc212a2-594e-4079-a75f-6916....</ns:kenmerk>
                        <ns:berichtsoort>DWT_Registration_BO</ns:berichtsoort>
                        <ns:tijdstempelAangeleverd>2016-…</ns:tijdstempelAangeleverd>
                        <ns:identiteitBelanghebbende>
                                <ns:nummer>123456789</ns:nummer>
                                <ns:type>Fi</ns:type>
                        </ns:identiteitBelanghebbende>
                        <ns:rolBelanghebbende>Intermediair</ns:rolBelanghebbende>
                </ns:aanleverResponse>
        </soap:Body>
</soap:Envelope>
```

Supply Service

AanleverFault

SOAP fault

- faultcode
- faultstring
- faultactor
- detail
  - aanleverFault
    - foutcode
    - foutbeschrijving

```
<soap:Body>
        <soap:Fault>
                <faultcode />
                <faultstring />
                <faultactor />
                <detail>
                        <aanleverFault>
                                <foutcode />
                                <foutbeschrijving />
                        </aanleverFault>
                </detail>
        </soap:Fault>
</soap:Body>
```

Supply Service

AanleverFault

Element: foutcode

Characteristics:

- *Digipoort Faultcode consisting of 3 letters and 3 numbers*

Example:

<*ns:*foutcode>
ALS100
</*ns:*foutcode>

Supply Service

AanleverFault

Element: foutbeschrijving

Characteristics:

- Description of the faultcode
- *For translation, see documentation*

Example:

<*ns:*foutbeschrijving>

Het verzoek voldoet niet aan de koppelvlak specificaties en kan hierdoor niet door Digipoort worden verwerkt.

De volgende fout is opgetreden:

Het opgegeven berichtsoort is onbekend

</*ns:*foutbeschrijving>

Supply Service

AanleverFault

```
<soap:Body>
        <soap:Fault>
                <faultcode />
                <faultstring />
                <faultactor />
                <detail>
                        <aanleverFault>
                                <ns:foutcode>ALS100</ns:foutcode>
                                <ns:foutbeschrijving>
                                        Het verzoek voldoet niet
                                </ns:foutbeschrijving>
                        </aanleverFault>
                </detail>
        </soap:Fault>
</soap:Body>
```

Supply Service

Summary:

Use supply service to send your XBRL instance

Happyflow:
Save the ‘kenmerk’ for use in statusinformation and future reference

Errorflow:
Save the error code and description
Look at document for translation and take corresponding action

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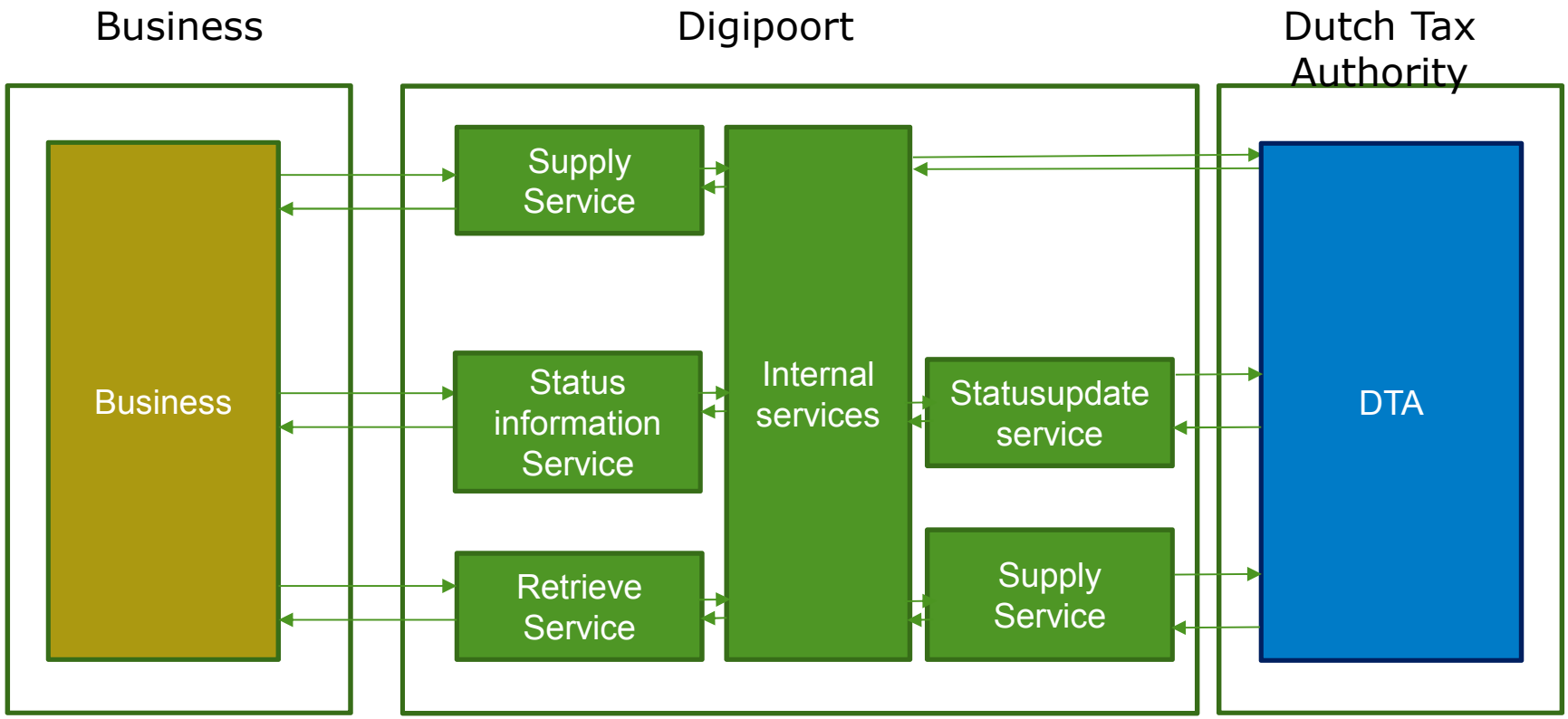
Statusses

What is the status of your message?

Statusses

What are statusses?



Statusses

What are statusses?

Supplying the message to Digipoort does not necessarily mean a succesful delivery to the DTA.

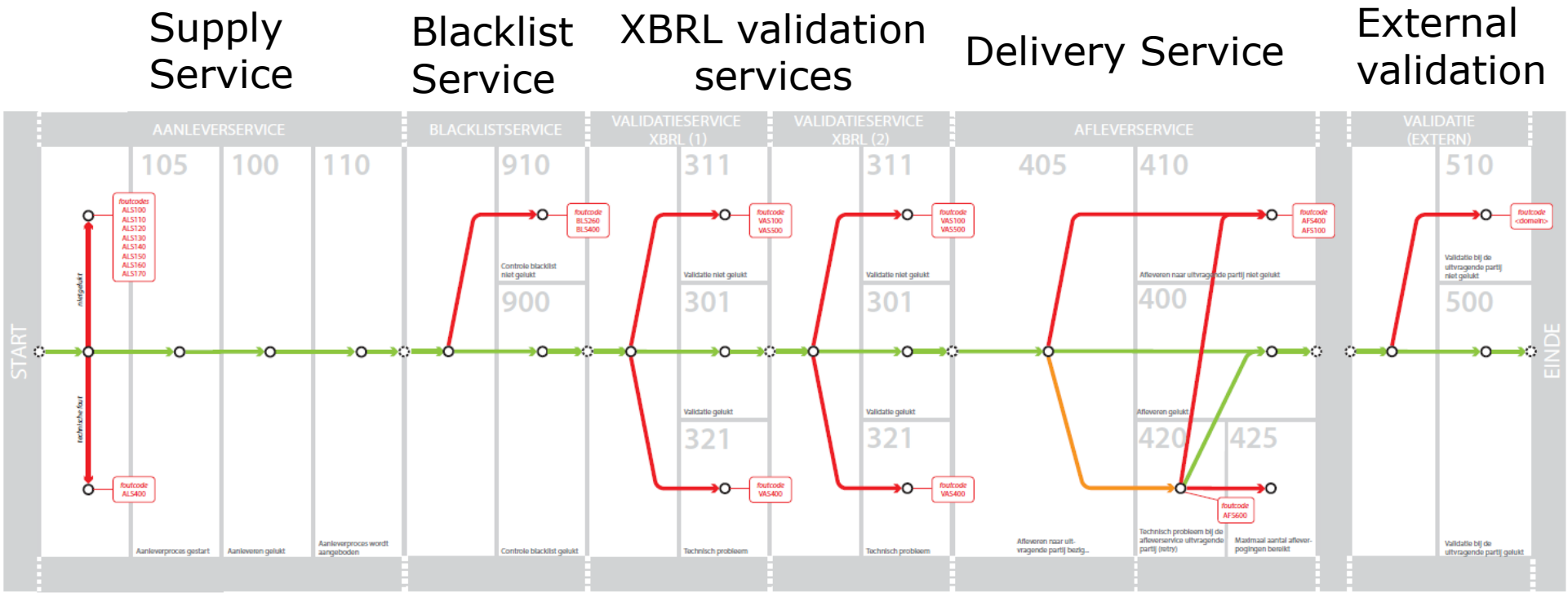
Your message will go through several services

Every service has its own statusses

With the Statusinformation Service you can see the statusses of your message

Statusses

Statusflow of DWT messages (Registration BO and Collective Reclaim)



Statusses

Statusses of DWT messages

105, 100, 110 – Supply Service (success)

900 – Blacklist service (success)
910 – Blacklist service (error)

301 – XBRL validation (success)
311 – XBRL validation (functional error)
321 – XBRL validation (technical error)

405 – delivery service (pending)
400 – delivery service (success)
410 – delivery service (technical error)
420 – delivery service (error, retry (max 72x, 1 hour interval))
425 – delivery service (error, no more retries)

500 – external validation (success)
510 – external validation (failure)

Statusses

Statusses of DWT messages

Examples:

Happyflow – message will go through:
105, 100, 110, 900, 301, 301, 405, 400, 500

Errorflow – XBRL validation error:
105, 100, 110, 900, 311

Errorflow – DTA gives error after validation
105, 100, 110, 900, 301, 301, 405, 400, 510

Statusses

Statusses of DWT messages

Statusses are accompanied by a description

See documentation for translation

Use the Statusinformation Service to view the statusses (+description) of your message

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Statusinformation Service

How to check the statusses

Statusinformation Service

Two types of request messages:

getStatussenProcesRequest:

Returns all statusses of the message with the supplied ‘kenmerk’

getNieuweStatussenProcesRequest:

Only return ‘new’ statusses of the message with the supplied ‘kenmerk’

‘new’ = status which has not been returned yet

Statusinformation Service

Method: getStatussenProces

Message: getStatussenProcesRequest

```
<soap:Envelope>
        <soap:Header/>
        <soap:Body>
                <getStatussenProcesRequest>
                        <kenmerk/>
                </getStatussenProcesRequest>
        </soap:Body>
</soap:Envelope>
```

Statusinformation Service

Method: getNieuweStatussenProces

Message: getNieuweStatussenProcesRequest

```
<soap:Envelope>
        <soap:Header/>
        <soap:Body>
                <getNieuweStatussenProcesRequest>
                        <kenmerk/>
                </getNieuweStatussenProcesRequest>
        </soap:Body>
</soap:Envelope>
```

Statusinformation Service

Message: getStatussenProcesResponse

```
<soap:Envelope>
        <soap:Header />
        <soap:Body>
                <getStatussenProcesResponse>
                        <getStatussenProcesReturn>
                                <StatusResultaat>
                                        <kenmerk/>
                                        <identiteitBelanghebbende>
                                                <nummer/>
                                                <type/>
                                        </identiteitBelanghebbende>
                                        <statuscode/>
                                        <tijdstempelStatus/>
                                        <statusomschrijving/>
                                </StatusResultaat>
                        </getStatussenProcesReturn>
                </getStatussenProcesResponse>
        </soap:Body>
</soap:Envelope>
```

Statusinformation Service

<StatusResultaat> - element is present for every status
<kenmerk/>
<identiteitBelanghebbende>
<nummer/>
<type/>
</identiteitBelanghebbende>
<statuscode/> - e.g. 100
<tijdstempelStatus/> timestamp of status
<statusomschrijving/> description of status
<statusFoutcode> only in case of errorstatus
<foutcode> error code, e.g. VAS500
<foutbeschrijving> error description
</statusFoutcode>
<statusdetails/> optional, contains message from government
</StatusResultaat>

Statusinformation Service

Further notes:

StatusinformatieFault contains errorcode and description

Use the same certificate as the one used to supply the message

Request status until message has reached a final status

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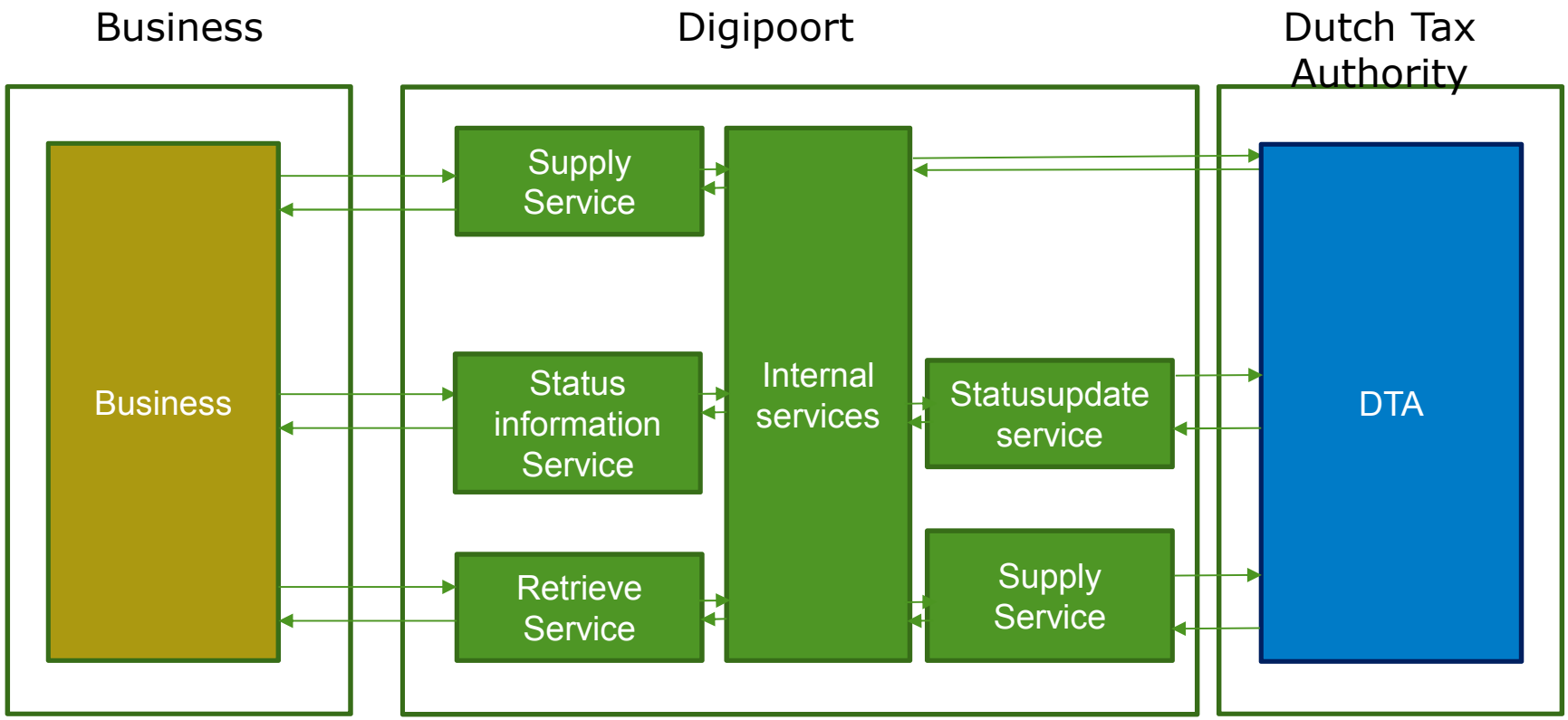
Retrieve Service

How to retrieve messages from Digipoort

Retrieve Service



Retrieve Service

Used to retrieve messages from Digipoort

Messages which have been sent by the DTA

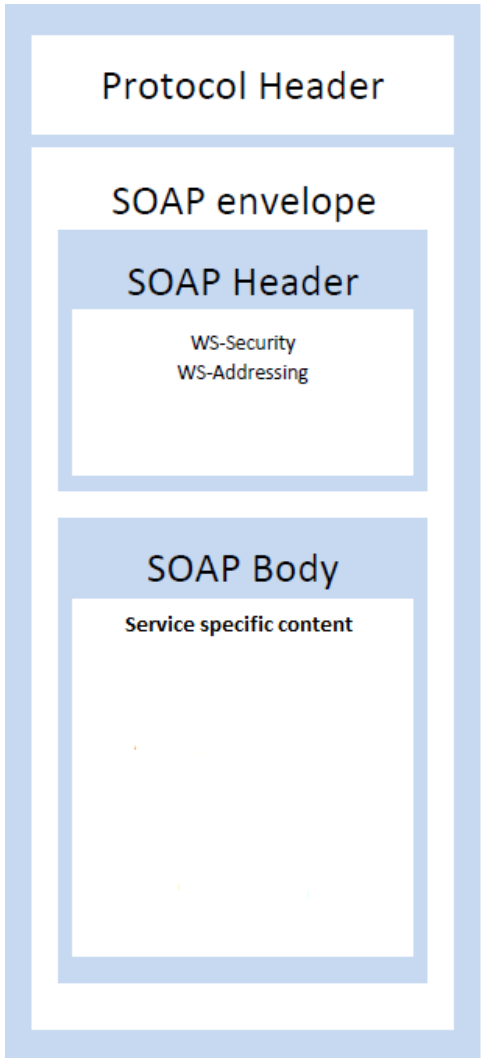
Message types:
DWT_Confirmation_BO
DWT_Collective_Decree

Retrieve Service

Two-step process:

1) getBerichtenLijst
Obtain a list with identifiers (kenmerk) of messages you can retrieve

2) getBerichtenKenmerk
Use a kenmerk from step 1 to retrieve a message



Retrieve Service

1) getBerichtenLijst

```
<Body>
        <getBerichtenLijstRequest>
        </getBerichtenLijstRequest>
</Body>
```

‘empty request’

Your identity is determined by the subject.SERIALNUMBER in your certificate

Retrieve Service

1) getBerichtenLijst
Example response:

```
<getBerichtenLijstResponse>
        <getBerichtenLijstReturn>
                <BerichtLijstResultaat>
                <berichtsoort>DWT_Confirmation_BO</berichtsoort>
                <identiteitBelanghebbende>
                        <nummer>123456789</nummer>
                        <type>Fi</type>
                </identiteitBelanghebbende>
                <kenmerk>12345678-abcd-efgh-ijkl-mnopqrustuvw</kenmerk>
        </BerichtLijstResultaat>
</getBerichtenLijstResponse>
```

Retrieve Service

2) getBerichtenKenmerk

```
<Body>
        <getBerichtenKenmerkRequest>
                <kenmerk>12345678-abcd-efgh-ijkl-mnopqrustuvw<kenmerk>
        </getBerichtenKenmerkRequest>
</Body>
```

Your identity is determined by the subject.SERIALNUMBER in your certificate

Retrieve Service

2) getBerichtenKenmerk

```
<Body>
        <getBerichtenKenmerkResponse>
                <getBerichtenKenmerkReturn>
                        <BerichtResultaat>

                        </BerichtResultaat>
                <getBerichtenKenmerkReturn>
        </getBerichtenKenmerkResponse>
</Body>
```

Element / childelement	Translation	Content
Kenmerk	Identifier	Identifier of message
berichtsoort	Message type	DWT_Collective_Decree or DWT_Confirmation_BO
aanleverkenmerk	supplier reference number	Reference number of supplier
identiteitBelanghebbende / nummer	Identity stakeholder / number	The Fi number
identiteitBelanghebbende / type	type	Fi
rolBelanghebbende	Role stakeholder	Intermediar
identitietAanleveraar	Identity of message supplier	Contains the OIN of the message supplier (00000002003214394002)
berichtInhoud / mimeType	Message content / mimeType	text/xml
berichtInhoud / bestandsnaam	Filename	Name of the XBRL file
berichtInhoud / inhoud	Content	Base64 encoded XBRL instance

Retrieve Service

Further notes:

Use the retrieve service on a daily basis to check for new messages

First use getBerichtenLijst, then getBerichtenKenmerk

Unreceived messages will be stored indefinitely

After you successfully receive a message, you have 2 hours to receive it again. After 2 hours it will no longer be retrievable.

DWT on Digipoort

Summary:

1) Request a PKIo services server certificate

2) Read the documentation on the WUS interface, the service descriptions, and the message specification

3) Implement WSDL/XSD files, implement WS-Security & WS-Addressing

Supply service = send XBRL instance

Statusinformation service = check status of supplied message

Retrieve service = retrieve messages sent by DTA

Demonstration

Demonstration using SoapUI

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Questions?

October 12, 2016

Contact information

Logius service centre:

Servicecentrum Logius
0900 555 4555 (10 ct p/m)
Weekdays from 08.00 tot 17.00 CEST
Contactform (mail): https://www.logius.nl/contact/

Maintenance and incident information

- Register at Logius for receiving maintenance and incident messages
  - For incidents: http://logius.a1.mailplus.nl/genericservice/code/servlet/React?wpEncId=BhjdqUBv6E&wpMessageId=12059&userId=3100101&command=viewPage&activityId=preview&encId=1
  - For maintenance: http://logius.a1.mailplus.nl/genericservice/code/servlet/React?wpEncId=KgsIDqz4KL&wpMessageId=12175&userId=3100101&command=viewPage&activityId=preview&encId=1
  - Planned maintenance: https://www.logius.nl/ondersteuning/onderhoud/
  - Information about incidents: https://www.logius.nl/ondersteuning/storingen/

Code documentation

.Net / C#:

http://aansluiten.procesinfrastructuur.nl/site/binaries/content/assets/documentatie/ontwikkelondersteuning/wus-connection-test-stubs-final-1.0.pdf

Java:

http://aansluiten.procesinfrastructuur.nl/site/binaries/content/assets/documentatie/ontwikkelondersteuning/wus-connection-test-stubs-final-1.0-java.zip

Review & Closing

October 12, 2016