Implementation guideline
e-CERTIFICATES

Frans van Diepen
UN/CEFACT domain coordinator

STDF SPS Electronic Certification Advisory Committee
December 2, 2020
UNCEFACT Implementation guideline project

• under development

• SPS e-CERT
  • Plant and plant product
  • animal and animal products

• e-Quality
• eCITES
One guideline for implementation of e-Certificates

- communication between partners: B2B, B2G and G2G
- several business processes
- different architecture
- no common e-Signature structures

- Based on UN/CEFACT CCL: naming and definition of information entities
## architecture

<table>
<thead>
<tr>
<th></th>
<th>Hub</th>
<th>Point2Point</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Push</td>
<td>Pull</td>
<td></td>
</tr>
<tr>
<td>SPS plant</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>SPS animal</td>
<td>-</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>e-Quality</td>
<td>-</td>
<td>+</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>eCITES</td>
<td>-</td>
<td>+</td>
<td>+</td>
<td></td>
</tr>
</tbody>
</table>
SPS e-CERT Process

1. Request for SPS-Certificate
2. Processing, Inspection and Issuance of SPS-Certificate
3. Approved SPS-Certificate
4. Send SPS-Certificate to Importer
5. Request for Clearance of goods
6. Validation, Inspection and Clearance of Import Shipment
7. Clearance of goods approved
8a. Bilateral Government-to-Government (G2G)
8b. Single Hub model (G2HUB2G)
SPS e-CERT Hub and P2P (G2G exchange)
Message collaboration,
Choreography defined in the WSDL
Service architecture

• Service – Client approach

• WSDL

• API design

• P2P, Hub, Central Hub, Multi-Hubs

• e Signature
  (in the certificate, in the envelope, at message level)
Project status

• final version ready for review December 2020

• focus on SPS e-CERT (plant and animal) Central Hub and P2P implementation

• eCITES Guide drafted completed by UNECE&CITES; currently under review by Parties

• UNECE&ESCAP Task Force on eCITES exchange pilots

• no attention on eSignature issues.