



Netherlands Food and Consumer  
Product Safety Authority  
*Ministry of Economic Affairs*

# ePhyto HUB

## IPPC developments



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## ePhyto Hub, IPPC developments

- Developments in countries
- IPPC developments ISPM 12
- Further IPPC harmonisation
- Role of Hub
- Development of Hub
- Challenges of Hub



## Developments in countries

- Several countries started developing electronic phytosanitary certification
- before and after ISPM 12 ePhyto harmonisation
- Resulting in different solutions
- Countries align bilaterally
- Many bilateral arrangements needed
- IPPC harmonisation is essential
- More harmonisation needed than in ISPM 12



## Harmonisation is critical even more for computers





This appendix was adopted by the Ninth Session of the Commission on Phytosanitary Measures in April 2014.  
This appendix is for reference purposes only and is not a prescriptive part of the standard.

## **APPENDIX 1: Electronic phytosanitary certificates, information on standard XML schemas and exchange mechanisms (2014)**

### **Introduction**

Electronic phytosanitary certificates are the electronic equivalents of phytosanitary certificates in paper form and may be used if they are accepted by the national plant protection organization (NPPO) of the importing country. When electronic phytosanitary certificates are issued by the NPPO of the exporting or re-exporting country, they should be made directly available to the NPPO of the importing country.

All the requirements and procedures in this standard apply to electronic phytosanitary certificates.

When using electronic phytosanitary certificates, NPPOs should develop a system for the issuance, transmission and receipt of electronic phytosanitary certificates that uses Extensible Markup Language (XML), standardized message structure and contents, and standardized exchange protocols.

This appendix provides guidance on these elements and refers to a page on the IPPC website (<http://ePhyto.ippc.int>) that provides links to further details – both IPPC and external websites and documents – on the information contained in this appendix. These links are referred to in the text as “*Link 1*”, “*Link 2*” and so forth.

The system should include the following harmonized components to generate electronic phytosanitary certificates.



## Further harmonisation

- Format of the ePhyto
  - version of the UNCEFACT schema
  - mapping of the data elements of ISPM12
- Contents of the ePhyto
  - terms and codes
- Exchange protocol between systems

This can all be done with the Hub

# Mapping



```
</ram:ProviderSPSParty>
- <ram:IncludedSPSClause>
  <ram:ID>01</ram:ID>
  <ram:Content>This is to certify that the plant described above:Have been inspected according to appropriate procedures, are considered to be free from pests and practically free from other injurious pests in conformity with the current phytosanitary regulation of the importing country</ram:Content>
</ram:IncludedSPSClause>
</ram:SignatorySPSAuthentication>
</rsm:SPSExchangedDocument>
- <rsm:SPSConsignment>
- <ram:ConsignorSPSParty>
  <ram:ID>MARIDADI FLOWERS NAIVASHA</ram:ID>
  <ram:Name>MARIDADI FLOWERS LTD</ram:Name>
- <ram:SpecifiedSPSAddress>
  <ram:LineOne>P.O.BOX 1800</ram:LineOne>
  <ram:CityName>NAIVASHA</ram:CityName>
  <ram:CountryID>KE</ram:CountryID>
  <ram:CountryName>KENYA</ram:CountryName>
  <ram:CityID>KENSA</ram:CityID>
</ram:SpecifiedSPSAddress>
</ram:ConsignorSPSParty>
- <ram:ConsigneeSPSParty>
  <ram:ID>Kneppers Cultuurmaatschappij BV, BERKEL EN RODENRIJS</ram:ID>
  <ram:Name>Kneppers Cultuurmaatschappij BV</ram:Name>
- <ram:SpecifiedSPSAddress>
  <ram:LineOne>Noordeindsweg 105</ram:LineOne>
  <ram:LineTwo>2561LG</ram:LineTwo>
  <ram:CityName>BERKEL EN RODENRIJS</ram:CityName>
  <ram:CountryID>NL</ram:CountryID>
  <ram:CountryName>NETHERLANDS</ram:CountryName>
  <ram:CityID>NLBER</ram:CityID>
</ram:SpecifiedSPSAddress>
</ram:ConsigneeSPSParty>
```



## IPPC commodity class

[Download Document](#)

### Harmonized Terms for Intended Use

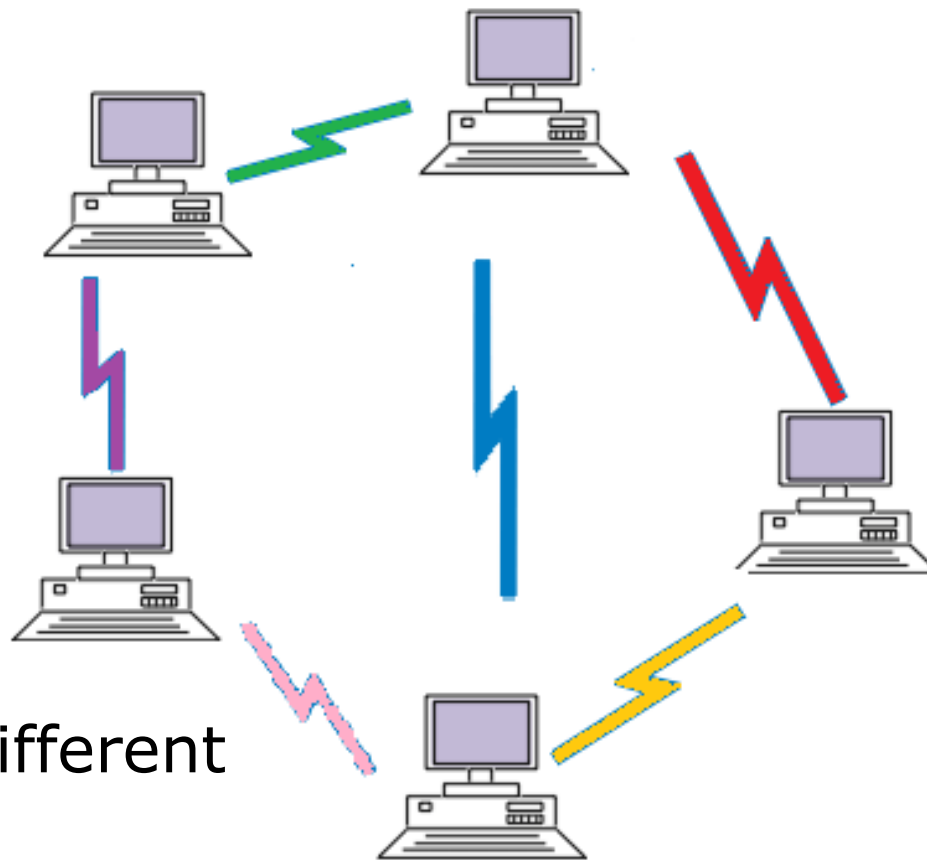
First level: general description of type of product	Possible Code	Second level: further specification of type of product	Possible Code
Plants for planting	PLFPL	Seeds	SEE
		Plants in-vitro with roots	IVR
		Plants in-vitro without roots	IVU
		Underground organs ( e.g. bulbs, tubers, rhizoms, stolons, corms)	BTR
		Budwood	BUD
		Cuttings or saplings with roots	CSR
		Cuttings without roots	CNR
		Other plants for planting	OTH
Plants other than plants for planting	PLOTH	Grain	GRA
		Cut flowers, cut herbs, cut branches with foliage	CBF
		Cut flowers, cut herbs, cut branches without foliage	CNF



# Exchange protocol



## Bilateral exchange

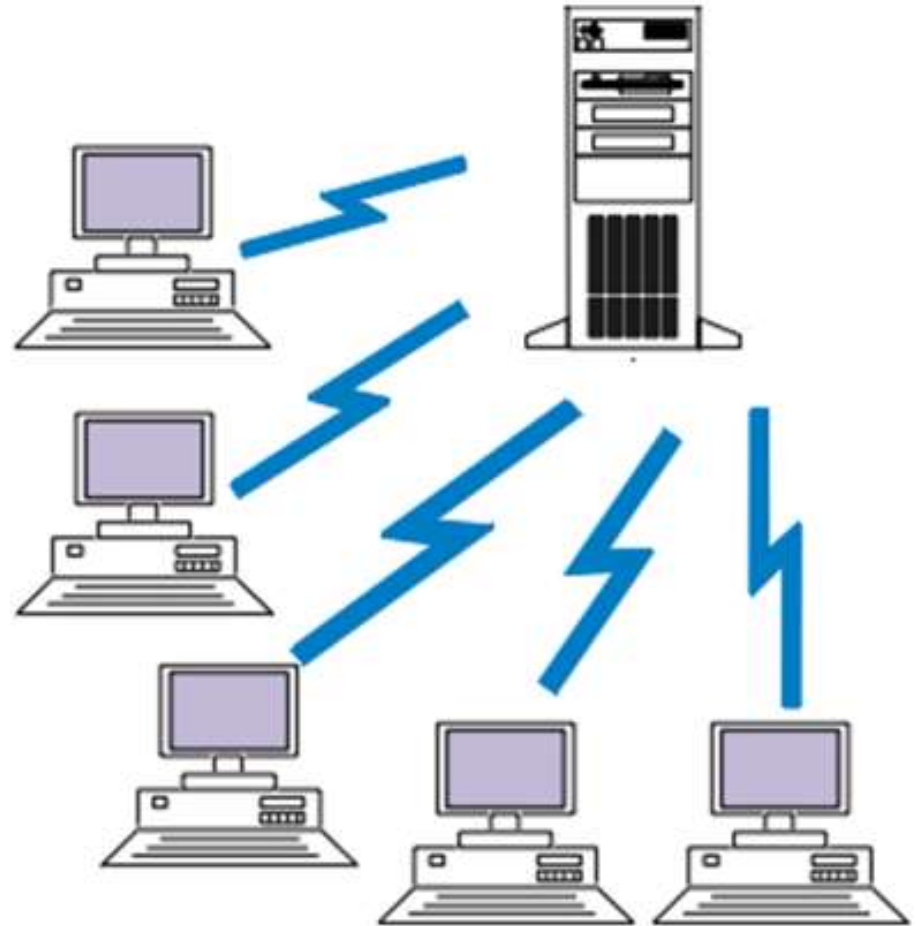


Exchange protocols different  
Contents different



# Hub exchange

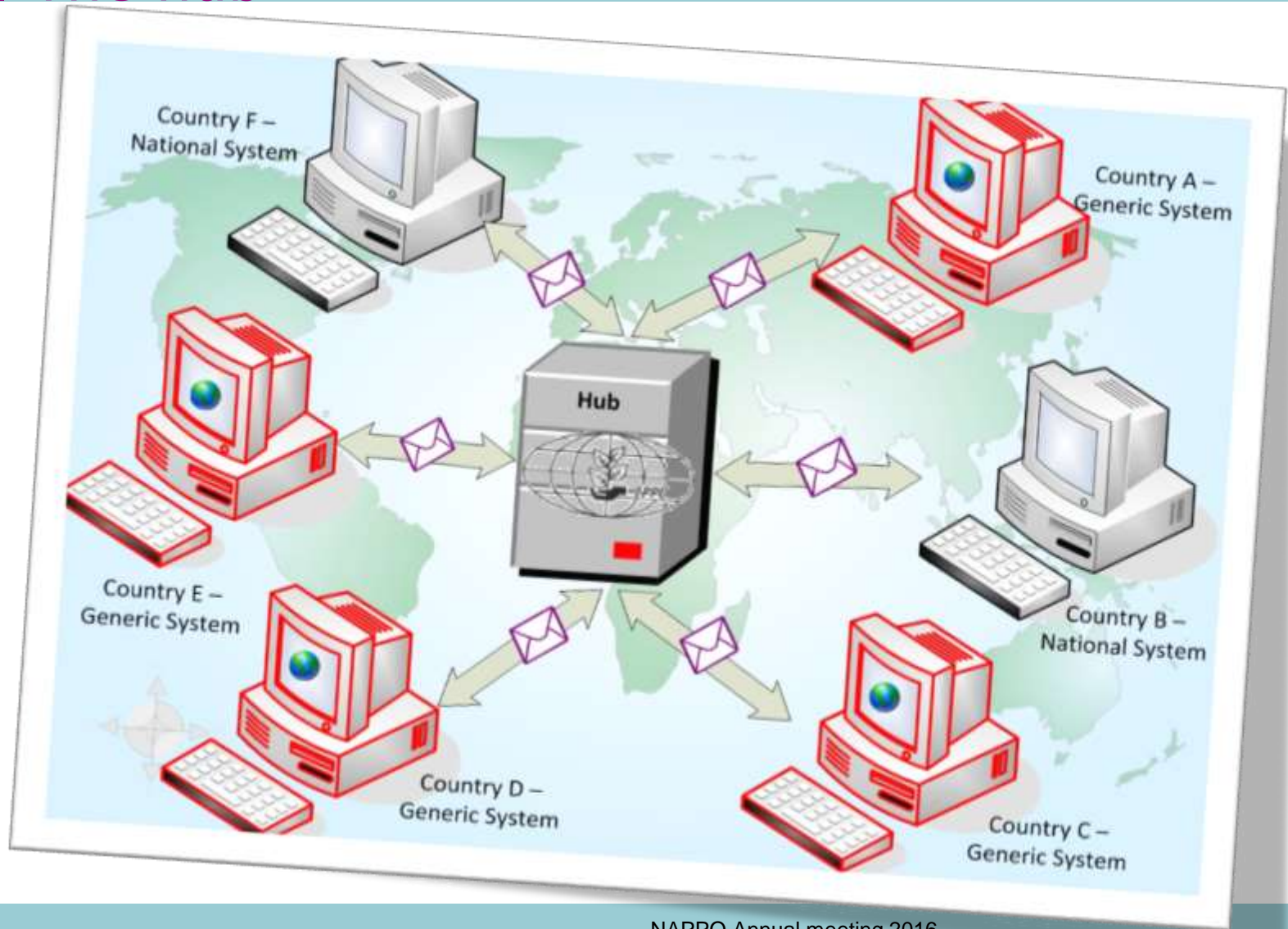
Standard exchange  
protocol needed  
May be used to  
standardize contents



Set the standard for all ePhyto exchange



# 4. The hub





# STDF project Timeline Hub development



Specifications      Proposal      Build      Pilot      Evaluation      Extension

UNICC will develop and host hub  
Project Technical Committee/IPPC ePhyto Steering Group  
will coordinate the whole process



# Countries participating in pilot hub

- Australia
- Chile
- China
- Kenya
- The Republic of Korea
- The Netherlands
- New Zealand
- United States of America



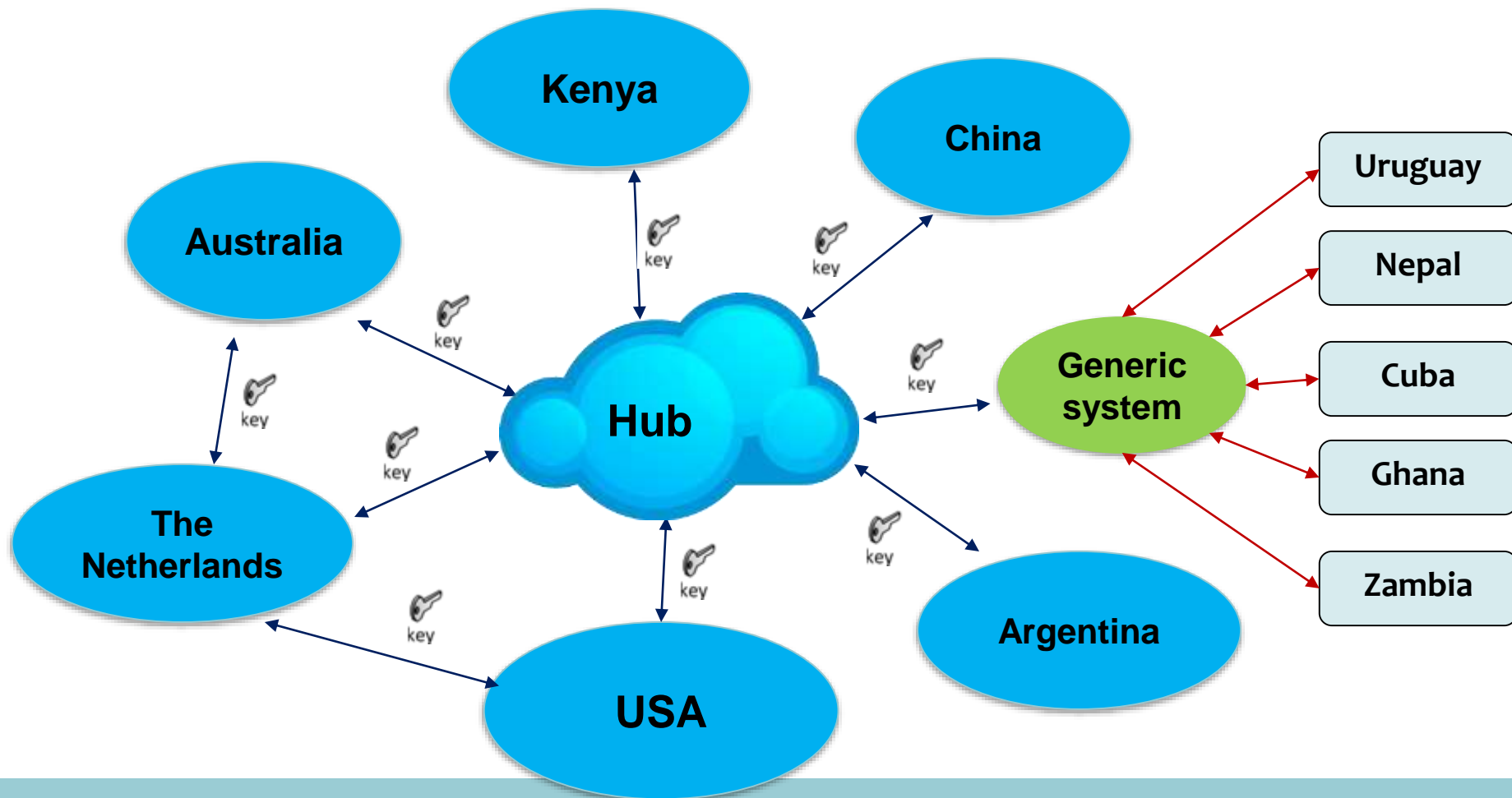


## Challenges

- Work on mapping and terms
- National systems to link with Hub
- Countries change in mapping and terms
- Developing countries to join
- Digital signature
  - some countries require
  - use ePhyto for re-export certification



## ePhyto via the HUB





Thanks for your attention