



Session 1.

NZ Prototype of the Hub concept

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Growing and Protecting New Zealand



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The Basics: NZ Prototype of the Hub concept (slide 1)!

- Utilises modern Cloud technology.
- Has a **secure** folder to contain each countries' certificate information.
- Contained a **linked** folder for attachments (i.e. Re-export phytosanitary certificate message situations).

The basics: NZ Prototype of the Hub concept (slide 2)!

- Has **Portal Access** – enabling countries without “ePhyto” capability to **receive** an electronic XML phytosanitary certificate message
- Utilises simple **secure** information exchange mechanisms – using the security SSL certificate (X.509 certificate)

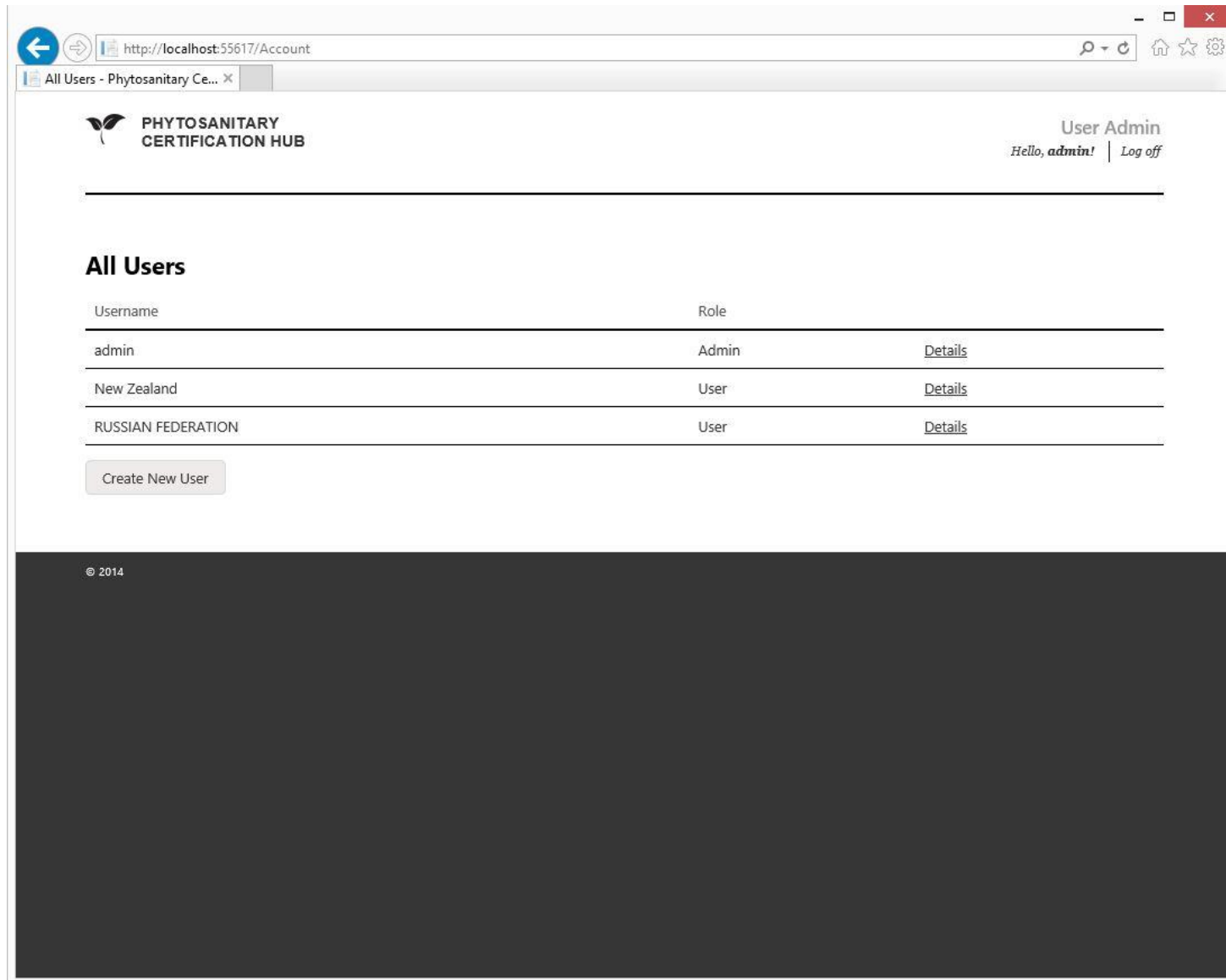
NZ Hub Prototype: Example “Login”!

The screenshot displays a web browser window with the address bar showing `http://localhost:55617/Account/Login?ReturnUrl=%2f`. The browser tab is titled "Login - Phytosanitary Certif...". The page header includes the "PHYTOSANITARY CERTIFICATION HUB" logo and a "Log in" link. The main content area contains a "Login" form with the following elements:

- Login** (Section Header)
- Username:** (Label) followed by a text input field.
- Password:** (Label) followed by a text input field.
- Submit** (Green button)

The footer of the page displays "© 2014".

NZ Hub Prototype: Example page “User authorisation”



NZ Hub Prototype: Example “all transactions”

PHYTOSANITARY CERTIFICATION HUB

User Admin
Hello, admin! | Log off

All Transactions

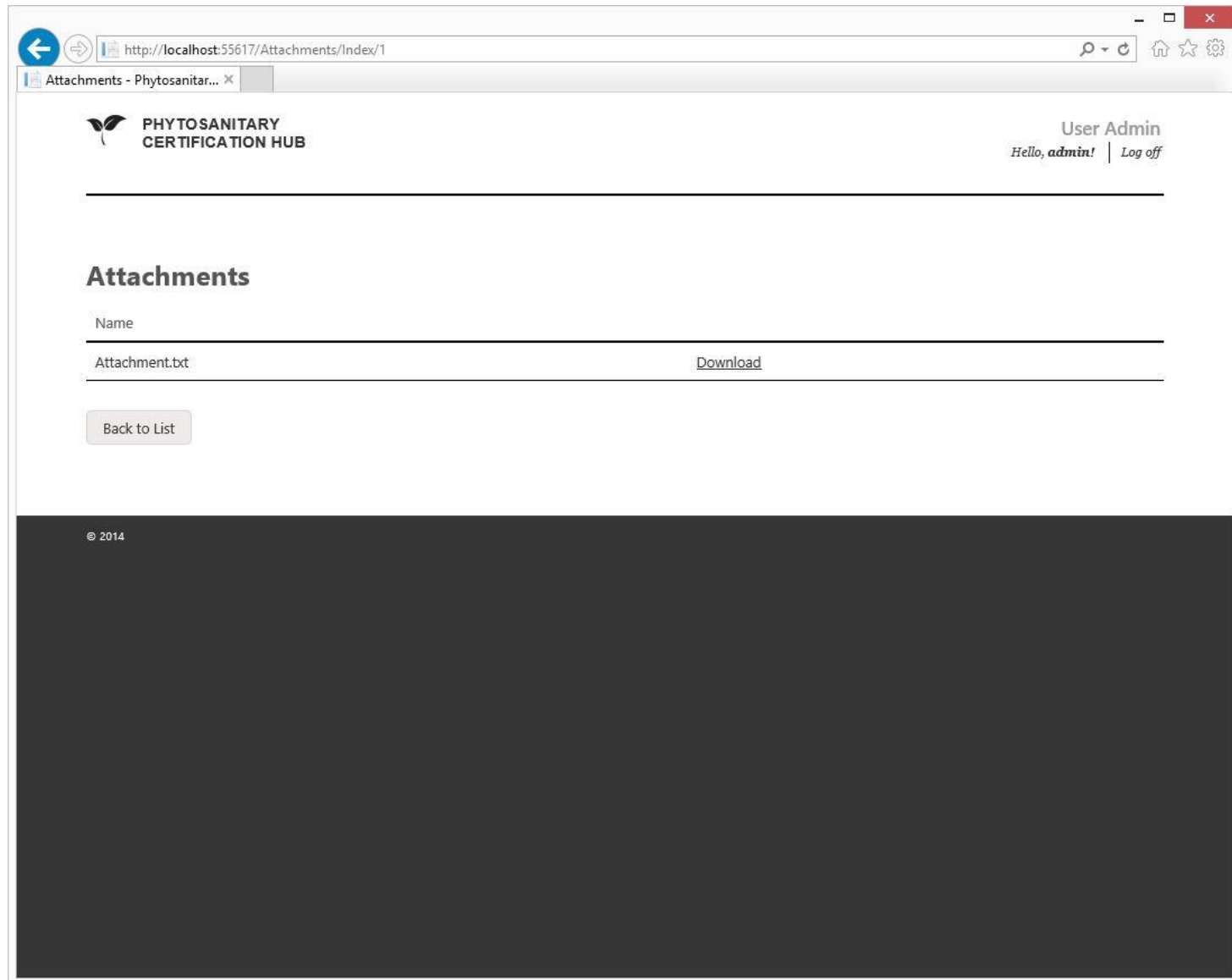
Id	Name	OriginCountry	DestinationCountry	CertificateStatus	Received	LastModified	Details	Certificate	Attachments	Delete
1	NZL2011EXP01100351	New Zealand	RUSSIAN FEDERATION	Approved	17/10/2014 1:45:43 p.m.	17/10/2014 1:45:43 p.m.	Details	Download	Attachments	Delete

© 2014

NZ Hub Prototype: ePhyto Business Actions (transactions)

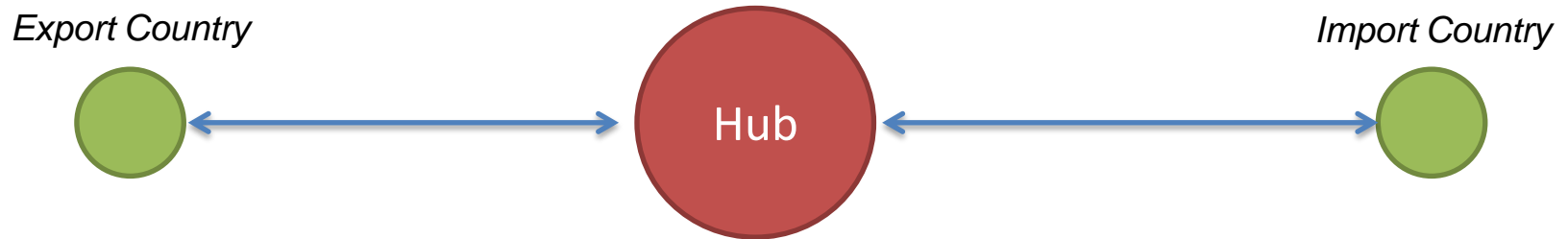
Operational Transactions	Description
Submit	Submit an approved certificate data set to the hub.
Revoke	Revoke an existing certificate data set.
Replace	Replace an existing certificate data set with an updated one.
Retrieve	Retrieve a list of certificate data sets based on: <ul style="list-style-type: none">• country• status• date range• Commodity
Reject	Importing country rejects a certificate set it receives via the hub.
Polling Query	Polls to check if there are any new certificate data sets for a specific country.

NZ Hub Prototype: Example page for “Attachments”



NZ Hub Prototype Action: Submit certificate information

Export NPPO ePhyto system & Hub activity:

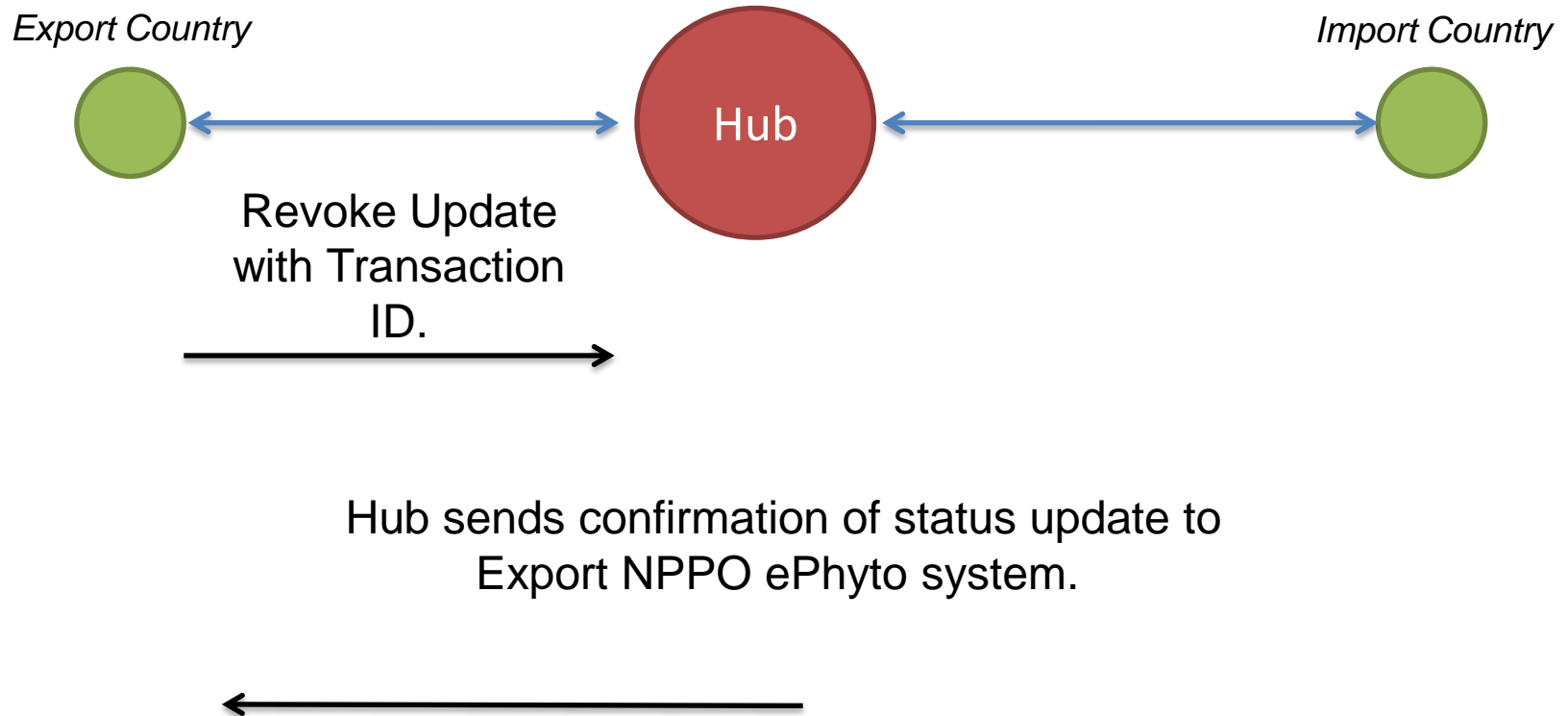


Hub sends confirmation and hub transaction ID to Export NPPO ePhyto system



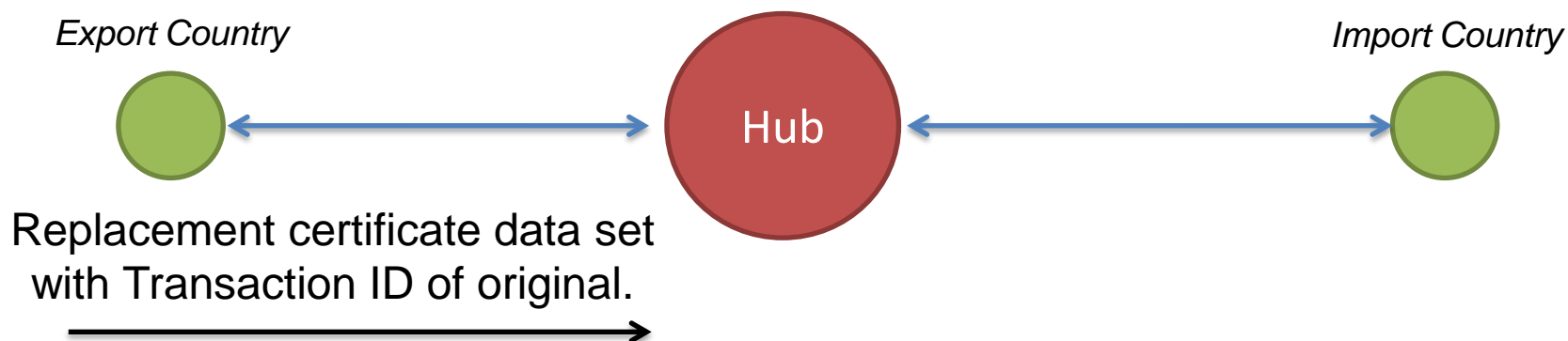
NZ Hub Prototype Action: Revoke certificate information

Export NPPO ePhyto system & Hub activity:



NZ Hub Prototype Action: “Replacement” certificate information

Export NPPO ePhyto system & Hub activity:

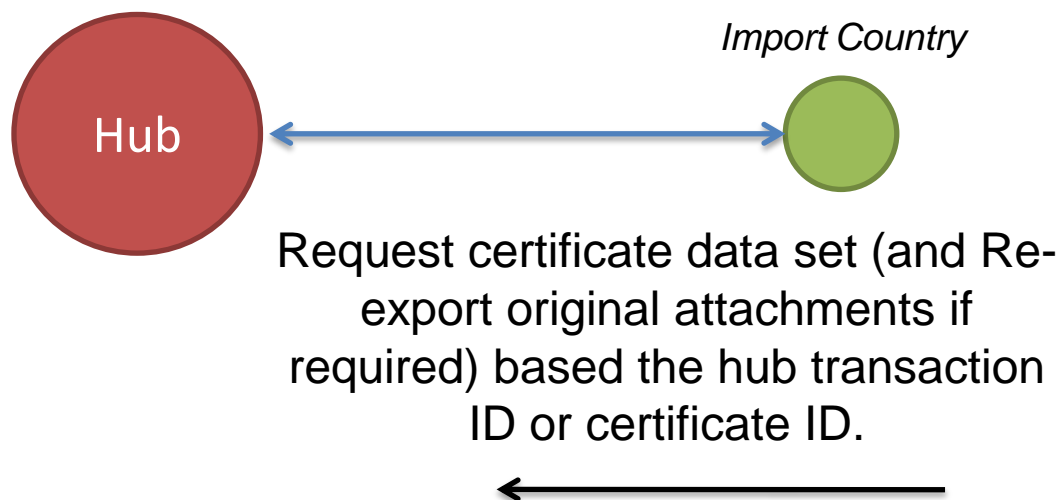


Hub sends confirmation and new transaction ID to
Export NPPO ePhyto system.



NZ Hub Prototype Action: “Retrieve” certificate information

Import NPPO ePhyto system & Hub activity:

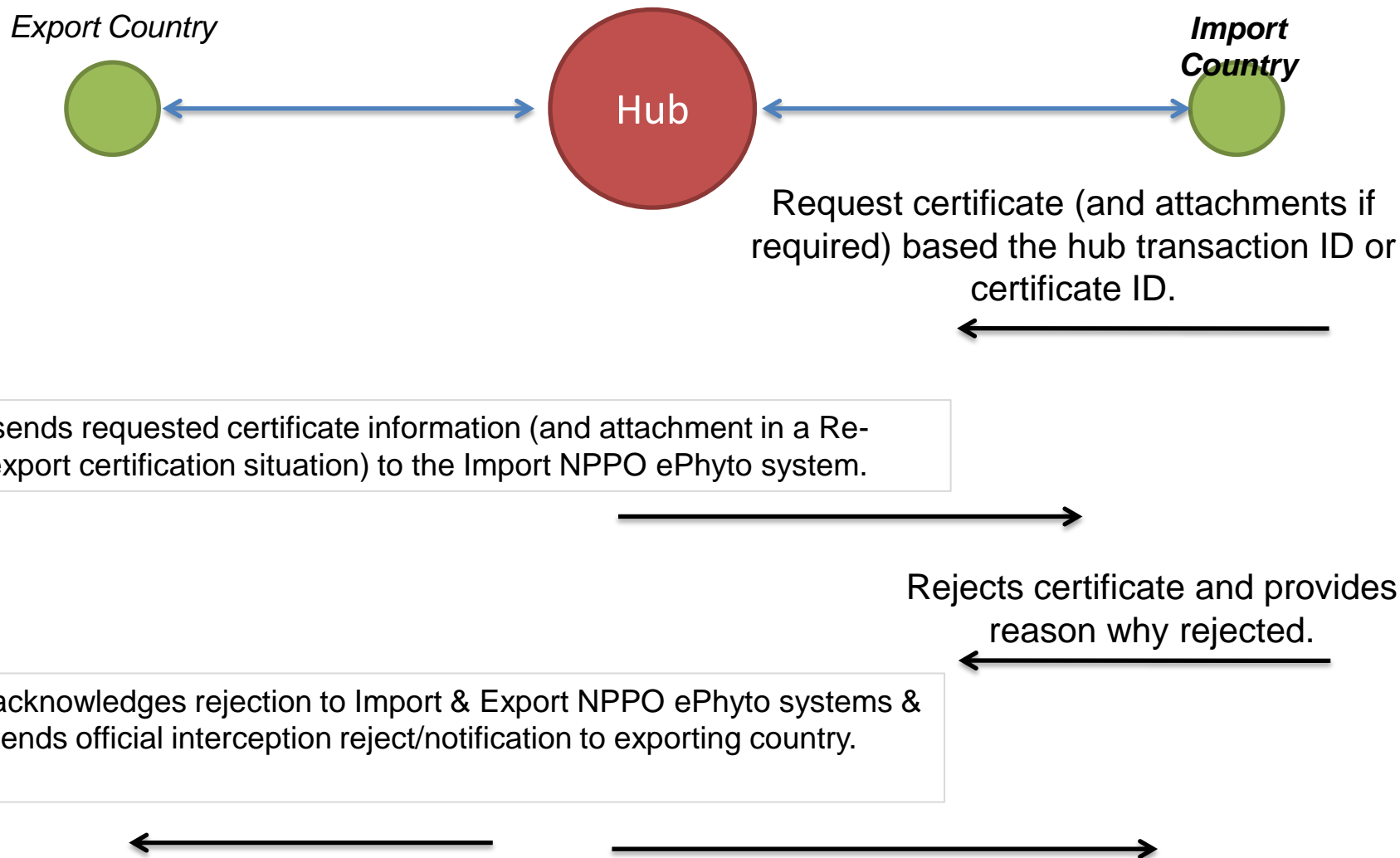


Hub sends requested certificate information to importing country ePhyto system (including any attachments).



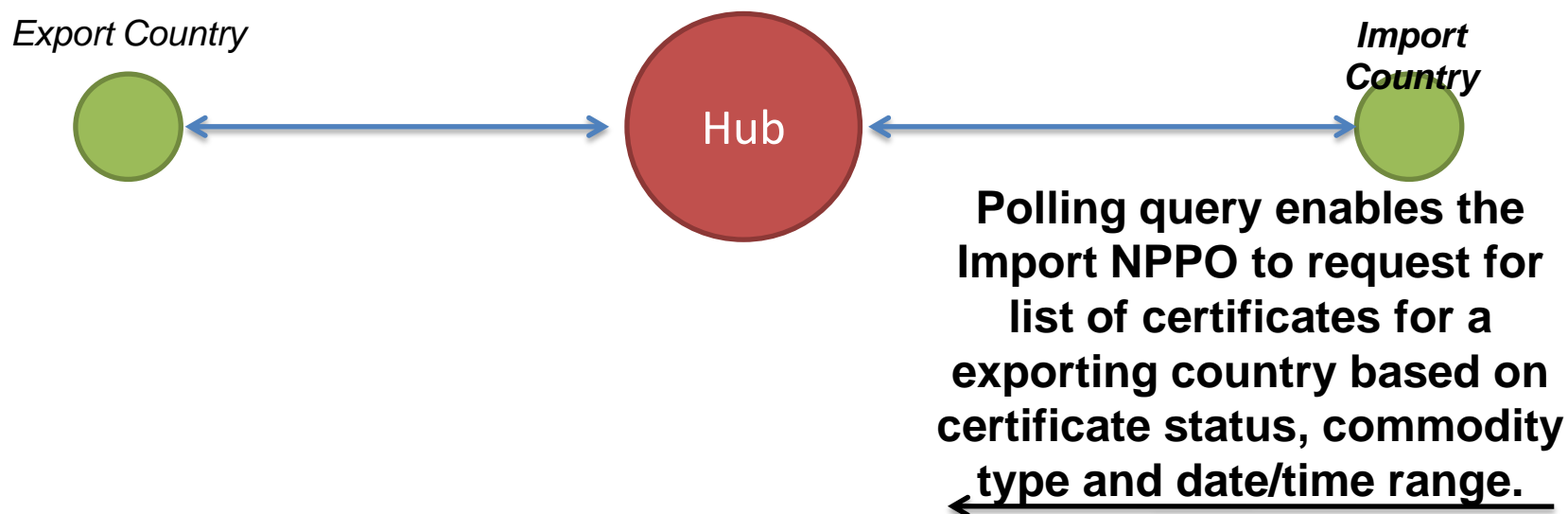
NZ Hub Prototype Action: “Reject” certificate information

Import NPPO ePhyto system & Hub activity:



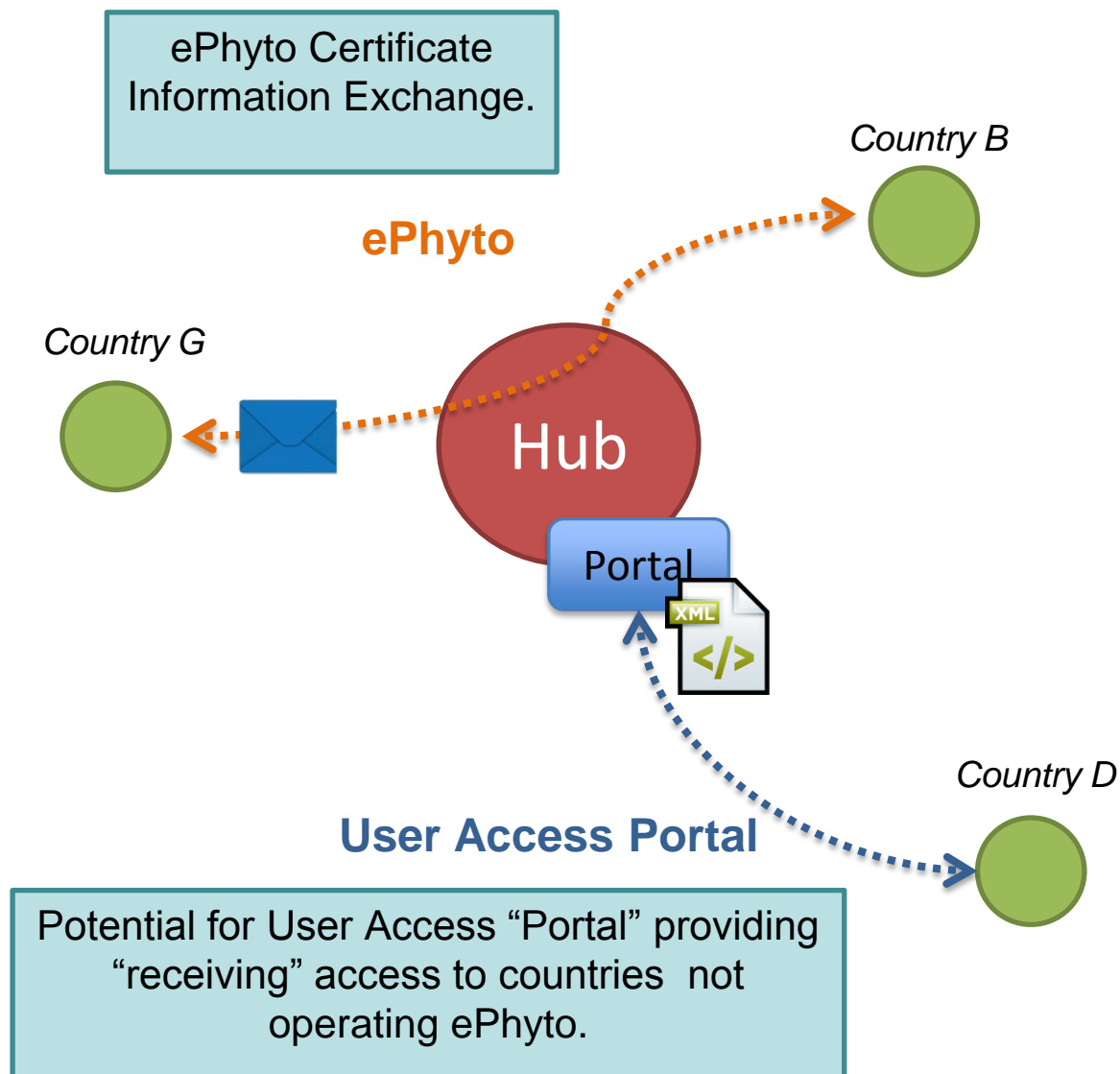
NZ Hub Prototype Action: “Polling Query”

Import NPPO ePhyto system & Hub activity:



Hub returns relevant entries (i.e. list of certificates and transaction IDs falling within the parameters (e.g. date/time range) of the polling query.

NZ Hub Concept/Prototype: ePhyto and Portal Access



NZ Hub Concept/Prototype: Portal access

- Provides basic functionality for member countries that don't have ePhyto functionality or enough trade volume to justify building an ePhyto solution.
- Allows exporting NPPO to push certificate envelope & message(s) to the Hub rather than having to host them on their own websites.

Slide 2: NZ Hub Concept/Prototype: Portal access

Importing **Portal** participating NPPOs:

- Benefit by not having to go to several different websites to look up certificate messages.
- May undertake basic computer searches
- Could potentially provide some standardised reporting capabilities
e.g. allow exporting NPPO to see when an importing NPPO last retrieved its certificates.
- Can receive status information and notifications of any upgrades/changes.

NZ Hub Prototype: Example page “Service Hub Client Tester”

Service Hub Client Tester

Service Hub Client Tester

Select operation:

Submit

Select file:

Select File

 NZL2012AUEXP260.xml

Transaction ID:

Base URL:

Final URL:

Call Service

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Request Error</title>
    <style>BODY { color: #000000; background-color: white; font-family: Verdana; margin-left: 0px; margin-top: 0px; } #content { margin-left: 30px; font-size: .70em; padding-bottom: 2em; } A:link { color: #336699; font-weight: bold; text-decoration: underline; } A:visited { color: #6699cc; font-weight: bold; text-decoration: underline; } A:active { color: #336699; font-weight: bold; text-decoration: underline; } .heading1 { background-color: #003366; border-bottom: #336699 6px solid; color: #ffffff; font-family: Tahoma; font-size: 26px; font-weight: normal;margin: 0em 0em 10px -20px; padding-bottom: 8px; padding-left: 30px;padding-top: 16px;} pre { font-size:small; background-color: #e5e5cc; padding: 5px; font-family: Courier New; margin-top: 0px; border: 1px #f0f0e0 solid; white-space: pre-wrap; white-space: -pre-wrap; word-wrap: break-word; } table { border-collapse: collapse; border-spacing: 0px; font-family: Verdana;} table th { border-right: 2px white solid; border-bottom: 2px white solid; font-weight: bold; background-color: #cecf9c;} table td { border-right: 2px white solid; border-bottom: 2px white solid; background-color: #e5e5cc;}</style>
  </head>
  <body>
```

Next Steps!

- **Agree** on the broad basics associated with the Cloud/Hub Concept
- **Identify/agree** on key persons within the Region to assist the CPM ePhyto Steering Committee/Working Group complete the feasibility study.
- **Support** setting up a pilot Hub that will enable:
 - Live exchanges/testing between a small group of countries
 - Share pilot experiences obtained to inform feasibility study

Questions



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