

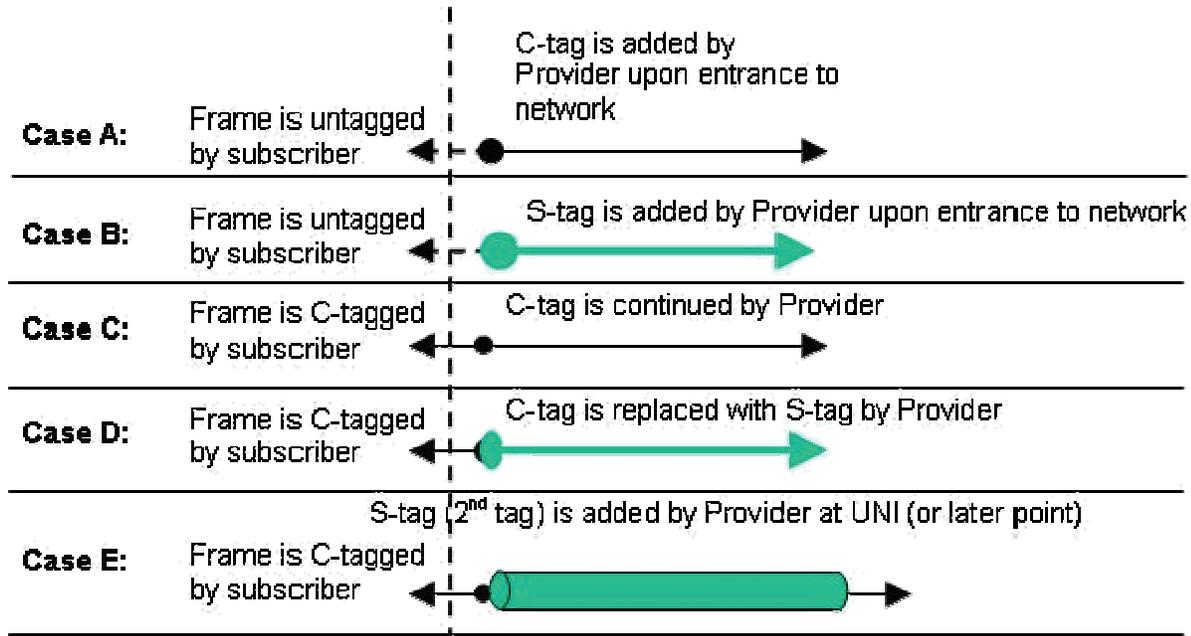
Configuring VLAN

App Note 303 – Configuring VLAN 100 with Provider C-Tag

Configuring VLAN 100 with Provider C-Tag

Application note:

This application note describes how to properly configure an untagged customer VLAN (e.g VLAN 100) on X322x stand-alone models and how to add a C-Tag (8100) by the Provider once the packet enters the network using Case A below:



Note: Using Case A above, Port-1 is facing the untagged customer traffic and Port-2 is facing the service provider. The traffic from the customer (copper port) will egress out tagged in the provider (fiber port) and vice-versa in the opposite direction.



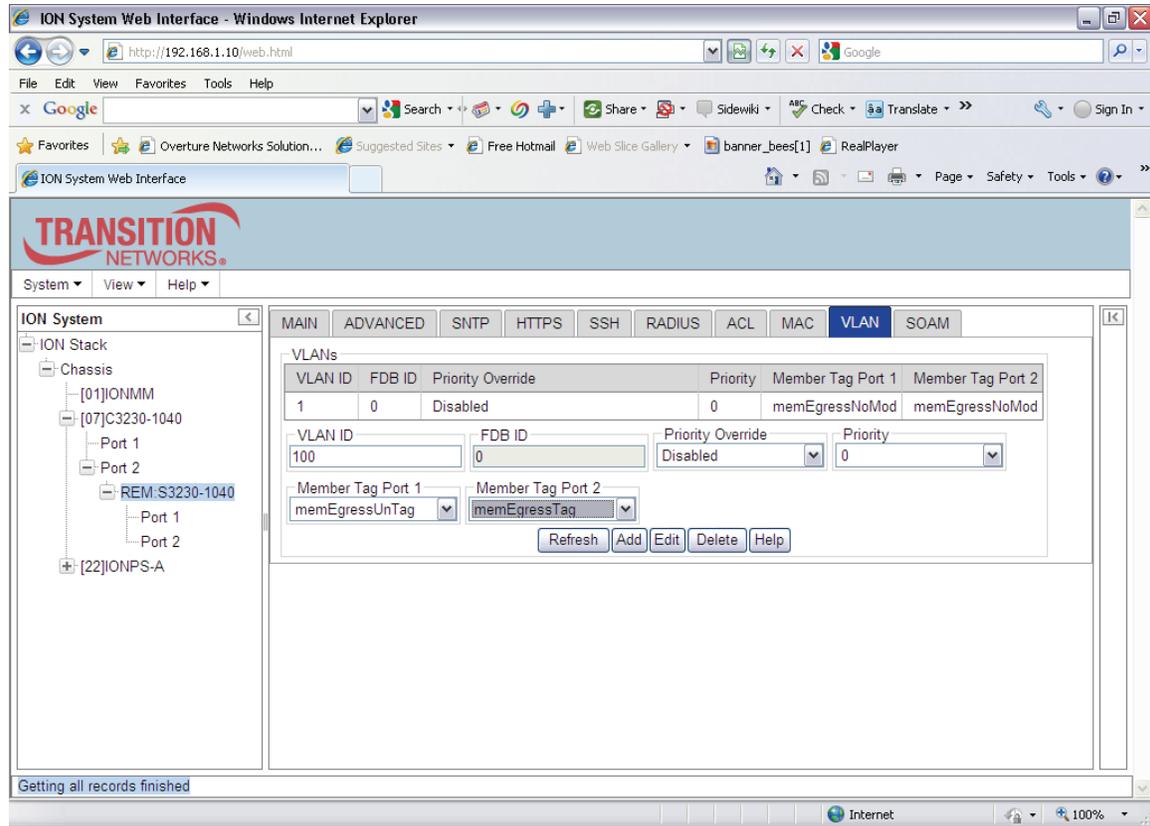
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Step 1: Add the VLAN ID (e.g. VLAN 100) into the VLAN DB from the VLAN Main Page. Set Port 1 to memEgressUntag. Set Port 2 for memEgressTag. Click ADD



Step 3: Go to REM S3230-1040, Port 1, Click on Advance Tab

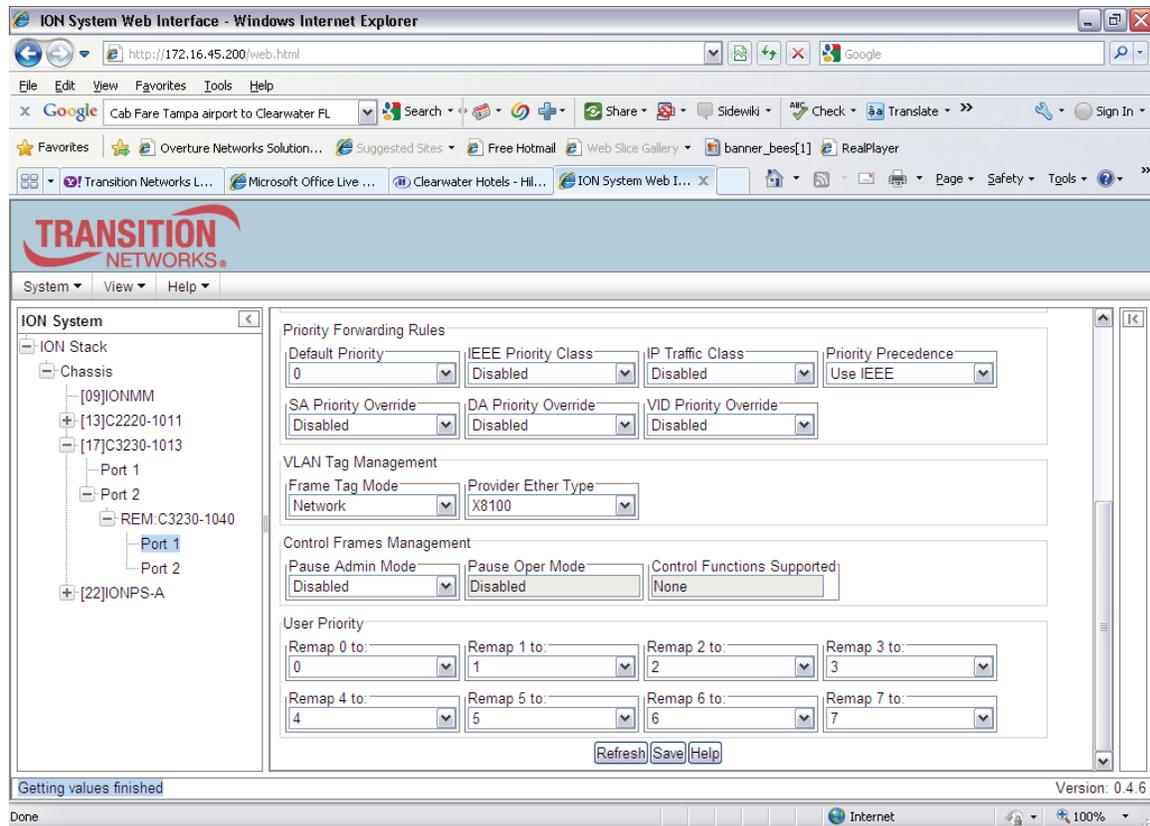


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Set Frame Tag Mode to Network, EtherType to X8100, enter default VLAN ID 100, then Save

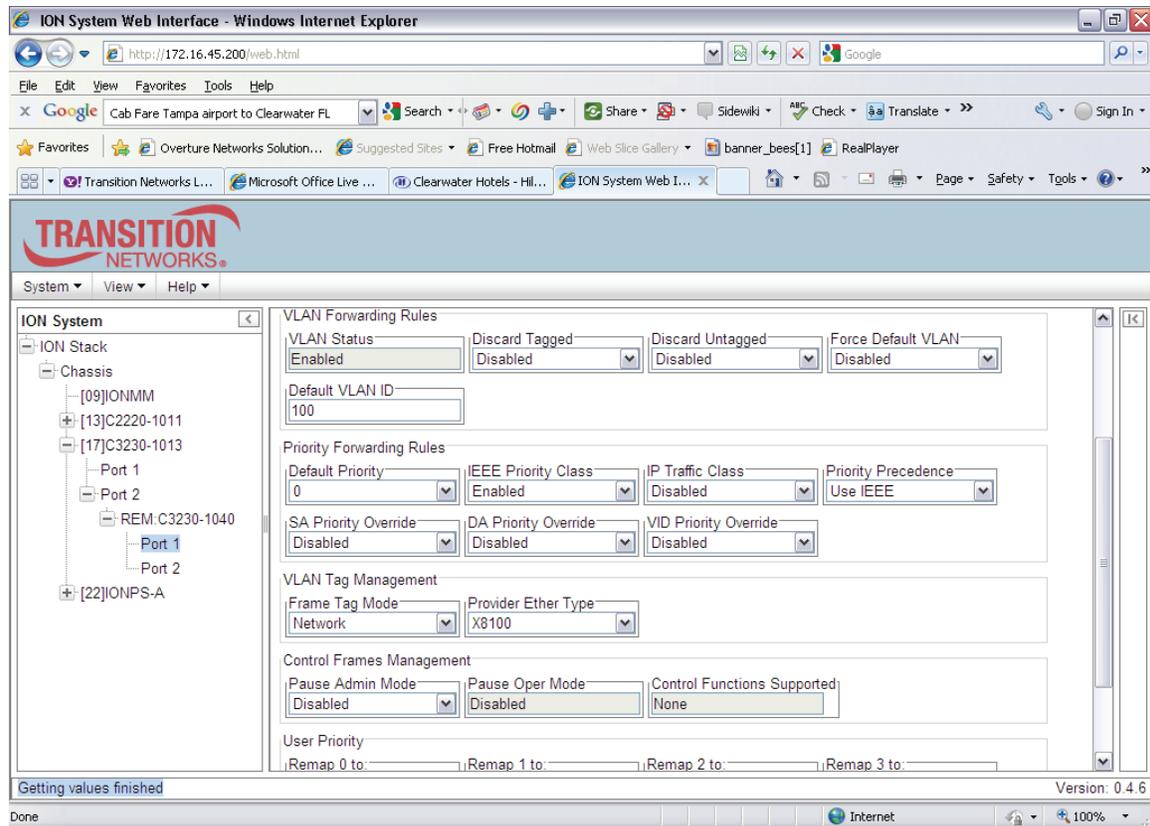


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Step 4: Go to Port 2 of REMx323x, Advanced Tab, Set Frame Tag Mgmt to Network, EtherType to X8100, Save



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The screenshot shows the ION System Web Interface in Windows Internet Explorer. The browser address bar displays `http://172.16.45.200/web.html`. The interface features the Transition Networks logo at the top left. Below the logo, there are navigation tabs for "System", "View", and "Help".

The main configuration area is divided into several sections:

- ION System:** A tree view on the left shows the hierarchy: ION Stack > Chassis > [09]IONMM > [13]C2220-1011 > [17]C3230-1013 > Port 2 > REM: C3230-1040 > Port 2 > [22]IONPS-A.
- Enabled/Disabled:** A row of four dropdown menus, all set to "Disabled".
- Default VLAN ID:** A text input field containing the value "1".
- Priority Forwarding Rules:**
 - Default Priority: 0
 - IEEE Priority Class: Enabled
 - IP Traffic Class: Enabled
 - Priority Precedence: Use IEEE
- SA Priority Override:** Disabled
- DA Priority Override:** Disabled
- VID Priority Override:** Disabled

VLAN Tag Management:

- Frame Tag Mode: Network
- Provider Ether Type: X8100

Control Frames Management:

- Pause Admin Mode: Disabled
- Pause Oper Mode: Disabled
- Control Functions Supported: None

User Priority:

- Remap 0 to: 0
- Remap 1 to: 1
- Remap 2 to: 2
- Remap 3 to: 3

At the bottom of the interface, a status bar shows "Getting values finished" on the left and "Version: 0.4.6" on the right. The Windows taskbar at the very bottom shows the Internet icon and a 100% zoom level.

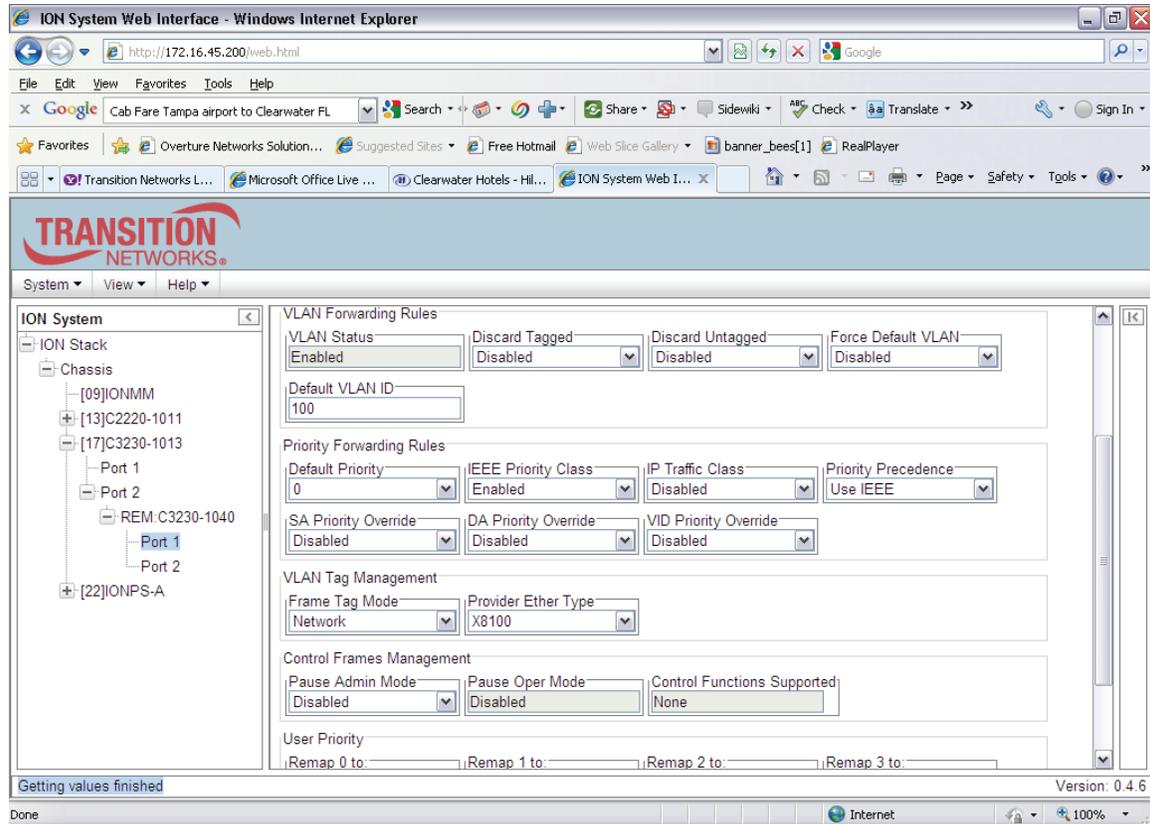


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Step 5: Ensure VLAN 100 is correctly set-up in Database with Port 1 “memEgressUntag” and Port 2 – “memEgressTag”



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