

Provisioning SOAM Application note:

This application note describes how to provision SOAM (802.1ag/Y.1731) using the x3230 (SIC) and stand-alone S3231 NIDs. Using the WEB GUI agent, the customer ME will be provisioned for SOAM and a hybrid ME between the operator and provider networks will also be SOAM provisioned. The customer network will be assigned MD 7, Provider MD 5, and Operator MD 3.



802.1ag Setup Procedure:

Step 1: Configure/Add the Maintenance Domain for the Customer Network. Select SOAM, MD, enter the MD id 7, enter the name customer (i.e First Union), select Level 7, then ADD

Customer MD ID 7

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Step 2: Configure/Add the Maintenance Domain for the **Provider** Network. Select **SOAM**, **MD**, enter **MD id 5**, enter the name **provider (i.e ATT)**, select **Level 5**, then **ADD**

Provider MID 5

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Step 3: Configure/Add the Maintenance Domain for the Operator Network. Select SOAM, MD, enter the MD id 2, enter the name operator (i.e. TW), select Level 2, then ADD



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Step 4: Configure/Add in the VLAN system directory, a new VLAN (i.e 700)



Step 5: Configure/add the VLAN Tag Mode and Ethertype:

Select Port 1, Advanced tab, select Frame Tag Mode =Customer, Set Ethertype to X88A8, then Save

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802.1ag Customer Network Set-up Procedure

Step 6: Configure/Add the **Maintenance Association ID's** for each Domain (Customer, Provider, Operator.) First, provision the **customer MA ID**. Select **SOAM, MA/MEG, MA Configuration**. Select **Parent MD ID 7** (corresponds to MD defined in Step 1), Enter **MA ID 701** (can be any ID starting with 7) enter **customer name** (Example First Union), Enable Remote MEP (REM) Auto-Detection, select a **VLAN type** (C-tag) and enter new Primary VID 700, if appropriate. Then **ADD**

Customer MA

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Step 7: Next, configure MEPs for each MA by adding them in the "MEP list" tab in the "MA Page.

Add MEP ID 77 (Any ID starting w/7) for the MEP ID assigned to the C3230, Add MEP 78 for the Remote peer MEP ID assigned to REM:S3231 corresponding to Parent MA/MEG ID 701.

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Step 8: After defining the MA's and MEP ID's, configure/add MEP ID 77 in the SOAM MEP Tab. Select port 1, set direction for "UP", status "enable, CC "enable"

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Step 9: Select the REM:S3231-1040 remote peer and configure the Maintenance Domains Repeating Steps 1-3 above



Step 10: Configure/Add in the VLAN system directory, a new VLAN (i.e 700)

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Step 11: Configure/add the VLAN Tag Mode and Ethertype:

Select Port 1, Advanced tab, select Frame Tag Mode, Customer, Set Ethertype to X88A8, then SAVE

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Step 12: Repeat Steps 6, 7, and 8 above for the REM:S3230. Assign MEP ID 78 to the remote peer **Configuring the Remote MA ID 701 with VID 700**

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Adding MEP ID's 77, 78 to the MEP ID List

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Assigning MEP ID 78, Port 1 status "UP" and enabling status and CC

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Step 13: Verify CCMs are now being sent/received between MEPs 77 and 78



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802.1ag Provider Network Set-up:

Step 14: Configure/Add in the VLAN system directory, a new VLAN (i.e 500)

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Step 15: Configure/Add the Maintenance Association ID for the provider network. Select SOAM, MA/MEG, MA Configuration. Select Parent MD ID 5 (corresponds to MD defined in Step 2), Enter MA ID 501 (can be any ID starting with 5) enter provider name (Example ATT), Enable Remote MEP (REM) Auto-Detection, add a VLAN type (S-tag) and Primary VID (500) if appropriate. Then Add

Provider MA

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Step 16: After defining the MA's, configure MEPs for each MA by adding them in the "MEP list" tab in the "MA Page.

Add MEP ID 55 (Any ID starting w/5) for the MEP ID assigned to the C3230, Add MEP 56 for the Remote peer MEP ID assigned to REM:S3231 corresponding to Parent MA/MEG ID 501.

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Step 17: After defining the MA's and MEP ID's, configure/add MEP ID 55 in the SOAM MEP Tab. Select port 1, set direction for "UP", status "enable, CC "enable"

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Step 18: Repeat Steps 14 -17 above for the REM:S3240. Assign MEP ID 56 in the final MEP configuration step

Add VLAN 500 in the VLAN database (Remote S3231)

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Provisioning the remote for **MA Configuration**. Select **Parent MD ID 5** (corresponds to MD defined in Step 2), Enter **MA ID 501** (can be any ID starting with 5) enter **provider** name (Example ATT), Enable Remote MEP (REM) Auto-Detection, add a **VLAN** type (C-tag) and VID (500) if appropriate. Then **Add**

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Using the MEP ID List, Add MEP ID 55 (Any ID starting w/5) for the MEP ID assigned to the C3230, Add MEP 56 for the Remote peer MEP ID assigned to REM:S3231 corresponding to Parent MA/MEG ID 501



Step 19: After defining the MA's, configure/add MEP *ID 56, select port 1, set direction for "UP", status "enabled," CC "enabled.*

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Step 20: Verify CCMs are now being sent/received between MEPs 55 and 56.



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802.1ag Operator Network Set-up Procedure

Step 21: Add in the VLAN system directory, a new VLAN (i.e 200)

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Step 22: Configure/Add the **Maintenance Association ID** for the **operator** network. Select **SOAM, MA/MEG, MA Configuration.** Select **Parent MD ID 2** (corresponds to MD defined in Step 3), Enter **MA ID 201** (can be any ID starting with 2) enter **operator name** (Example Time Warner), Enable Remote MEP (REM) Auto-Detection, add a **VLAN** type (C-tag,S-Tag) and Primary VID (200) if appropriate, then **Add**

Operator MA

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Step 23: Using the MEP ID List, Add MEP ID 22 (Any ID starting w/2) for the MEP ID assigned to the C3230, Add MEP 23 for the Remote peer MEP ID assigned to REM:S3230 corresponding to Parent MA/MEG ID 201



Step 24: After defining the MA's, configure/add MEP ID 22, select port 1, set direction for "UP", status enabled, CC enabled

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Step 25: Repeat Steps 21 -24 above for the REM:S3240. Assign MEP ID 23 to the remote S3230 in the final MEP configuration step



Verify CCMs are being sent/received from MEP 22 and 23

Y.1731 Set-up Procedure - Customer Network

Step 26: Add VLAN ID (i.e 750) in the VLAN directory of C3230 for associating Y.1731 with customer network



Step 27: Configure Y.1731 MEG for the Customer, Provider, and Operator Network. First configure Y.1731 MEG for the customer network. Select SOAM, MA/MEG, MEG Configuration, enter MEG ID 702, customer name (Example First Union) select Level 7 from pull-down, Enable CC Interworking, Enable REM Auto-Detect, Enter VLAN type (C/S Tag), enter PVID (i.e. 750) then Add.

Customer MEG Y1731

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Step 28: Configure/Add MEP ID's 72 (C3230) and 73 (REM) for MEG ID 702

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Step 28: Add MEP ID 72 (C3230) to MG ID 702 in the MEP Configuration, set Port 1 "UP", and enable status and CC

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Y.1731 Set-up Procedure - Provider Network

Add VLAN ID (i.e 550) in the VLAN directory of C3230 for associating Y.1731 with provider network

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Step 29: Configure Y.1731 MEG for provider network. Select SOAM, MA/MEG, MEG Configuration, enter MEG ID 502, customer name (Example AT&T) select Level 5 from pulldown, Enable CC Interworking, Enable REM Auto-Detect, Enter VLAN type (C/S Tag), PVID (e.g 550) then Add.

Provider MEG Y1731

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Step 30: Configure/Add MEP ID's 52 (C3230) and 53 (REM) for MEG ID 502

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Step 31: Add MEP ID 52 (C3230) to MG ID 502 in the MEP Configuration, enter PVID (e.g. 550) set port 1 "UP" and enable status and CC

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+ 1061C3230-1040		52	Port 1	Up	550	Enabled	Enabled		7	250	
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Y.1731 Set-up Procedure - Operator Network

Step 32: Add VLAN ID (i.e 250) in the VLAN directory of C3230 for associating Y.1731 with operator network

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Step 33: Configure Y.1731 MEG for operator network. Select SOAM, MA/MEG, MEG Configuration, enter MEG ID 202, customer name (Example TW) select Level 2 from pulldown, Enable CC Interworking, Enable REM Auto-Detect, Enter VLAN type (C/S Tag), PVID (e.g 250) then Add.

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Operator MEG Y1731

Step 34: Configure/Add MEP ID's 25 (C3230) and 26 (REM) for MEG ID 202 $\,$

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Step 35: Add MEP ID 25 (C3230) to MG ID 202 in the MEP Configuration, set Port 1 "UP", enter VLAN PVID (e.g. 250), enable status and CC

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Y.1731 Set-up Procedure (Customer, Provider, Operator) – Remote Device (S3231)

Step 36: Repeat Steps 26-35 for the Remote (REM:S3230) assigning MEP ID 73 (MEG ID 702) MEP ID 53 (MEG ID 502) MEP ID 26 (MEG 202)

<u>Test</u>

Verify CCM's are being sent/received properly between MEG Y.1731 MEPs (72,73,52,53,25,26)

Run Linktraces and Loopbacks between MEPs to verify complete operation