

Adjustment and Inspection Schedule

**TK780-C Shenick Edge/Core pair
RTRTK781-C Shenick Core Upgrade
TK791-C Shenick Edge/core**

USED ON

TM500 series

NOTES

1. Test limits stated in this document are production specification limits and shall apply at the time of test or inspection. These limits are for Company use only and do not form part of any contract.
2. Production specification limits are indicated values, due allowance having been included for the inaccuracy of the test equipment as in Part 1 and, where appropriate, for any other reason.
3. All tests listed in part 2 are mandatory unless exempted by means of a Production permit approved for this batch by the Quality manager.

© 2013 Aeroflex Ltd.

This document, which is released on the understanding that the Company's proprietary rights therein are recognised and that it is solely for the information of the recipient, must not be copied either as a whole or in part, or disclosed to any third party without prior written permission from the Company

ISSUE No.	DATE	No. of PAGES
3	26-06-14	17
DOCUMENT NUMBER		
TTK780-001		

Stevenage Hertfordshire SG1 2AN England

Parent Company: Aeroflex, Inc

Change Record

Issue	Date	ECN	Author	Description
A Draft	10-Feb-12		P. Simms	New Document First combined document for; <ul style="list-style-type: none">• HP Procurve 1810G-8 switch• Shenick Edge & Core Blade
B Draft	25-Sep-12		P. Simms	References made to TK780-C, TK781-C & TK791-C
1	11-Apr-12	27495	P. Simms	First release.
2	25-Jun-13	27697	D. Page	Add information for TK781, TK791 and modify to Edge/core pair
3	26/06/2014	28963	P. Simms	Remove Shenick configuration (to remove duplication errors), instead, make reference to TE500/002 for Shenick config

Master Document:

\\stv-nas\depts\Eng\DEJ_ProdTest\Production Test
Documents\TM500\E500\TTK780_001_Shenick\TTK780_001_Issue_3.docx

NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet

Contents

1	Notes and Cautions	3
1.1	Introduction	3
1.2	Operator Requirements	3
1.3	UUT Definitions	4
2	Test Equipment	5
2.1	Equipment required for configuring the UUT	5
3	Network Switch Configuration (HP Procurve 1810G-8)	5
3.1	VLAN Configuration	5
3.2	VLAN Participation / Tagging	8
3.3	VLAN Save Configuration	12
4	Shenick DiversifEye Edge/Core Configuration	14
4.1	Configure Shenick	14
5	UUT Results Summaries	14
6	Appendix A – Changing the PC IP address	15
6.1	Changing the PC IP address to suit the UUT	15
6.2	Restoring the PC IP address to the original setting	17

1 Notes and Cautions

1.1 Introduction

Shenick Edge (client) and **Shenick Core (server)** units may be installed in the cabinet as part of the E500 system cabinet, or sold as standalone products. This document is relevant to standalone configurations, and will be used for all top-level part numbers containing an 8-port Network Switch and one or more standalone Shenick D500/D1000 boxes (i.e. not fitted in an E500).

1.2 Operator Requirements

Operators using this schedule **must** ...



Check that **all** test equipment has valid safety test labels.



Check that **all** cables, connectors and tools are in good condition.

NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet

1.3 UUT Definitions

The following terms are used in this document to describe the UUT and its component parts:

Ethernet	Computer networking technology for LAN
IP	Internet Protocol
LAN	Local Area Network (a limited area computer network)
PC	Personal Computer used for configuring the UUT
UUT	Unit Under Test

NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet

2 Test Equipment

Note: All unspecified test equipment should be Class 3 or higher.

2.1 Equipment required for configuring the UUT

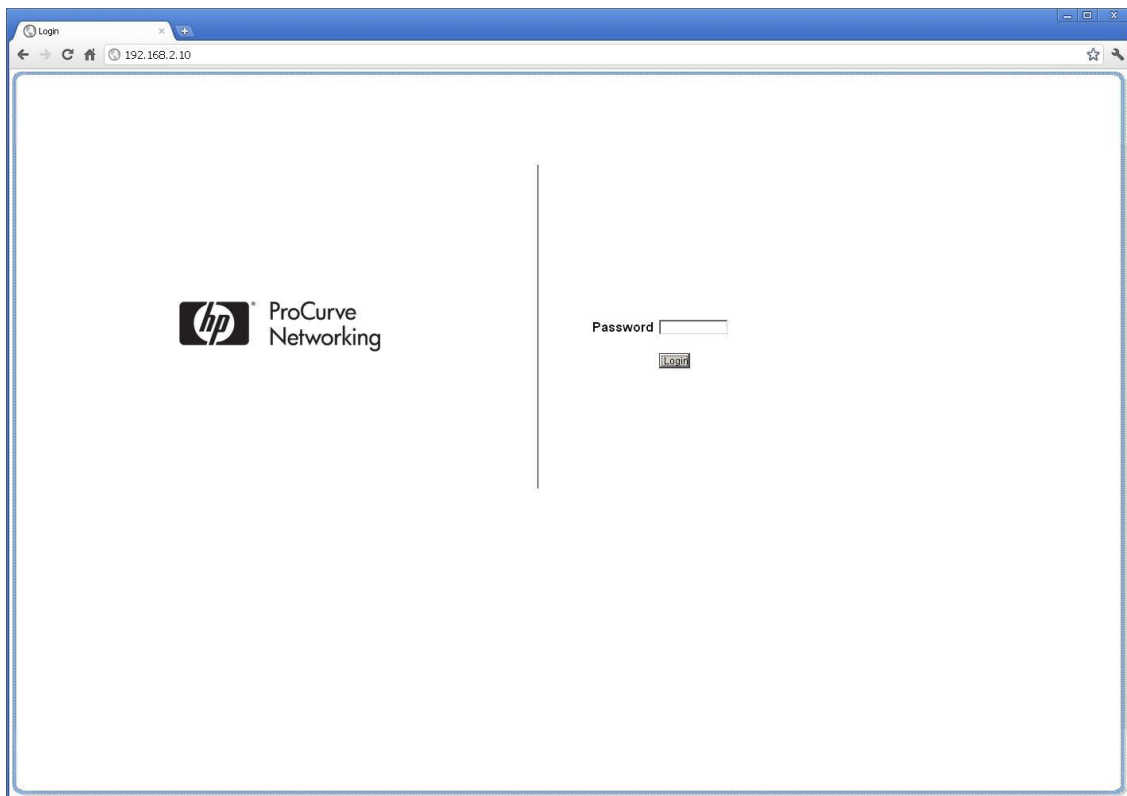
Item	Description	Class	C.S.
a)	PC with at least one Ethernet port (any Windows operating system)		
b)	Ethernet cable (with RJ45 to RJ45 connectors)		

3 Network Switch Configuration (HP Procurve 1810G-8)

It is necessary for any PC used during this configuration process to have the Local Area Network connection on the same LAN as the UUT default address. A description of how to achieve this will be detailed in the relevant sections below.

3.1 VLAN Configuration

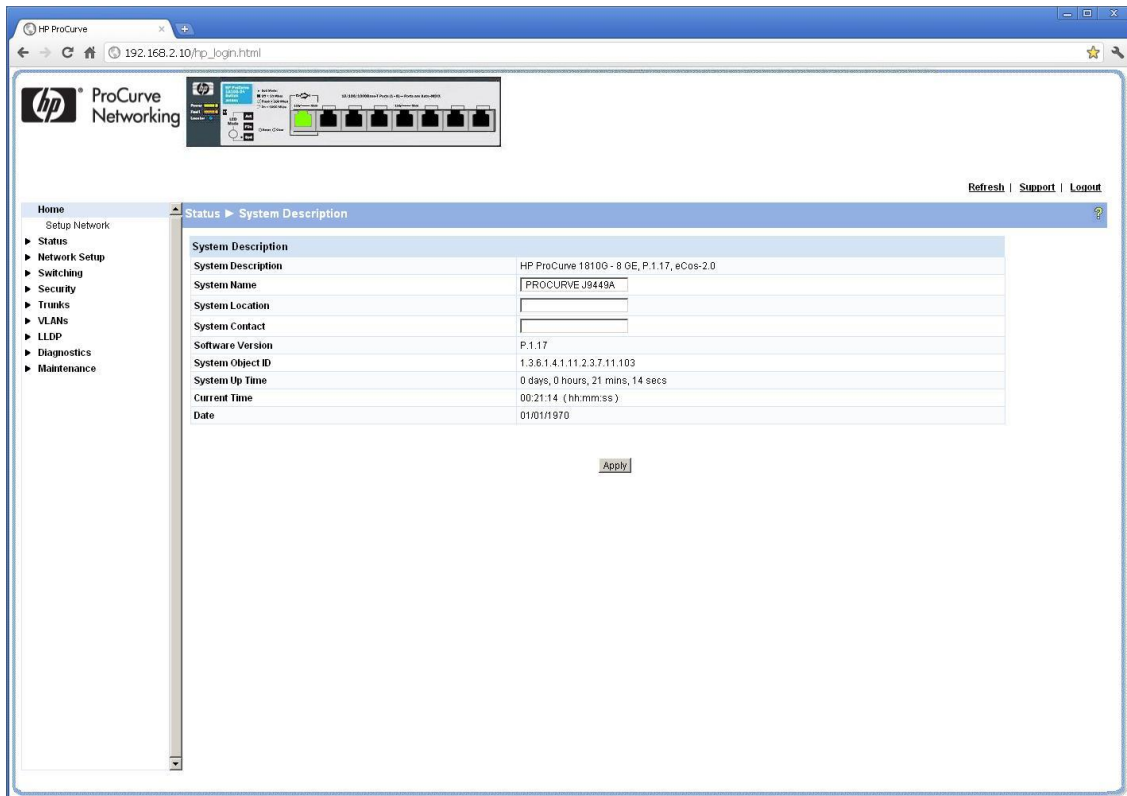
1. Connect an Ethernet network cable directly between the PC and the UUT, any one of the HP ProCurve network switch ports.
2. ⚠ Do not proceed beyond this point with the PC connected to any network other than directly to the UUT.
3. ⚠ Change the PC network IP address to **192.168.2.1**. See 6 Appendix A – Changing the PC IP address for details.
4. Using a standard web browser (i.e. Internet Explorer), browse to URL <http://192.168.2.10/>. The Login page shown below should now appear. By default, no password is configured, just click “Login” to continue;



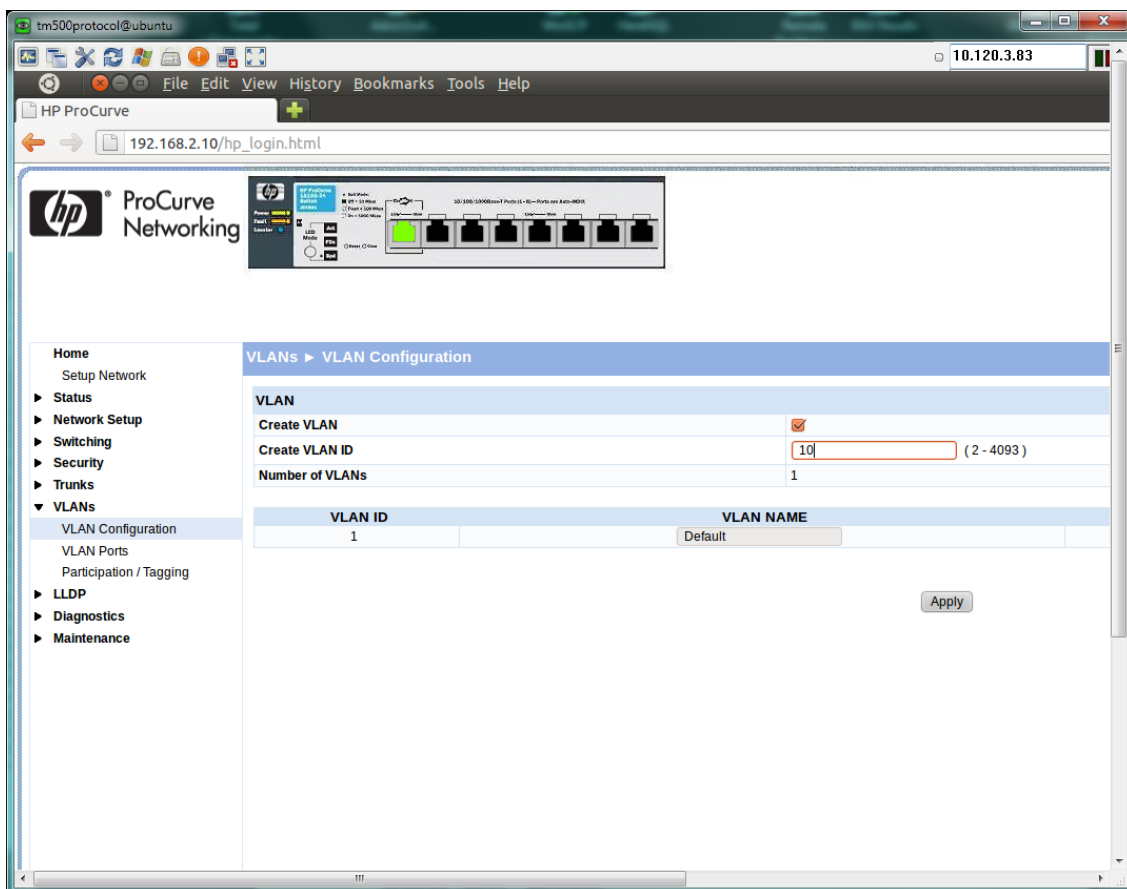
NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet

The following home screen will be displayed;



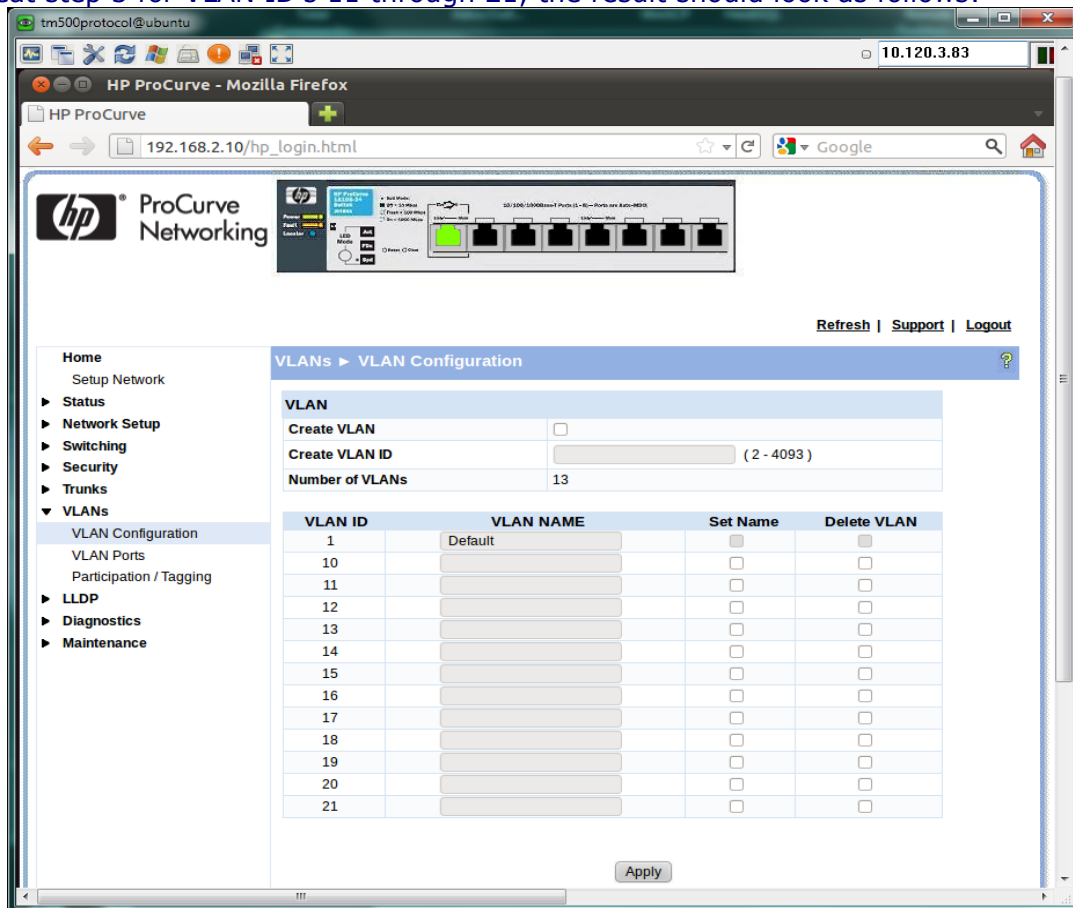
5. Select "VLANs" => "VLAN Configuration" in the left pane of the window.
6. In the right pane, tick the "Create VLAN" radio button check box; enter "10" against "Create VLAN ID" and click "Apply":



NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet

7. Repeat step 3 for VLAN ID's 11 through 21, the result should look as follows:



Tick the Test Record when passed ☒

NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet

3.2 VLAN Participation / Tagging

- The three different products require the VLANs to be setup in different ways. The remainder of section 3.2 details the setup for the "Edge" switch of TK780-C. To avoid duplication the setup matrices for TK780-C "Core" and TK791-C "Edge/core" are detailed below. It is suggested that the correlation between these instructions and the matrix representation is understood before proceeding. If in doubt ASK.

The setup matrix for RTRTK780-C is the same as TK780-C "Core".

TK780-C Edge

D500 Edge (TK780-C)		Port							
		1	2	3	4	5	6	7	8
VLAN	1	U	E	E	E	E	E	E	U
	10	T	U	E	E	E	E	E	T
	11	T	E	U	E	E	E	E	T
	12	T	E	E	U	E	E	E	T
	13	T	E	E	E	U	E	E	T
	14	T	E	E	E	E	U	E	T
	15	T	E	E	E	E	E	U	T
	16-21	T	E	E	E	E	E	E	T

TK780-C Core

D500 Core (TK781-C)		Port							
		1	2	3	4	5	6	7	8
VLAN	1	U	E	E	E	E	E	E	U
	16	T	U	E	E	E	E	E	T
	17	T	E	U	E	E	E	E	T
	18	T	E	E	U	E	E	E	T
	19	T	E	E	E	U	E	E	T
	20	T	E	E	E	E	U	E	T
	21	T	E	E	E	E	E	U	T
	10-16	T	E	E	E	E	E	E	T

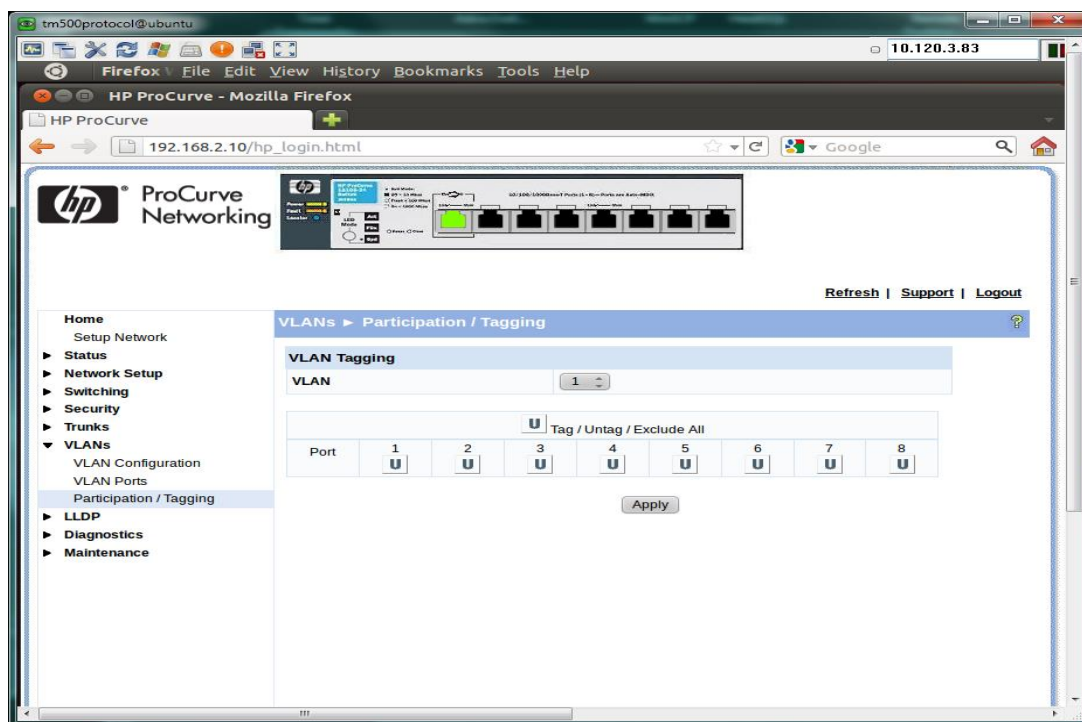
TK791-C Edge/Core

D500 Hybrid (TK791-C)		Port							
		1	2	3	4	5	6	7	8
VLAN	1	U	E	E	E	E	E	E	U
	10	T	U	E	E	E	E	E	T
	11	T	E	U	E	E	E	E	T
	12	T	E	E	U	E	E	E	T
	16	T	E	E	E	U	E	E	T
	17	T	E	E	E	E	U	E	T
	18	T	E	E	E	E	E	U	T
	13-15, 19-21	T	E	E	E	E	E	E	T

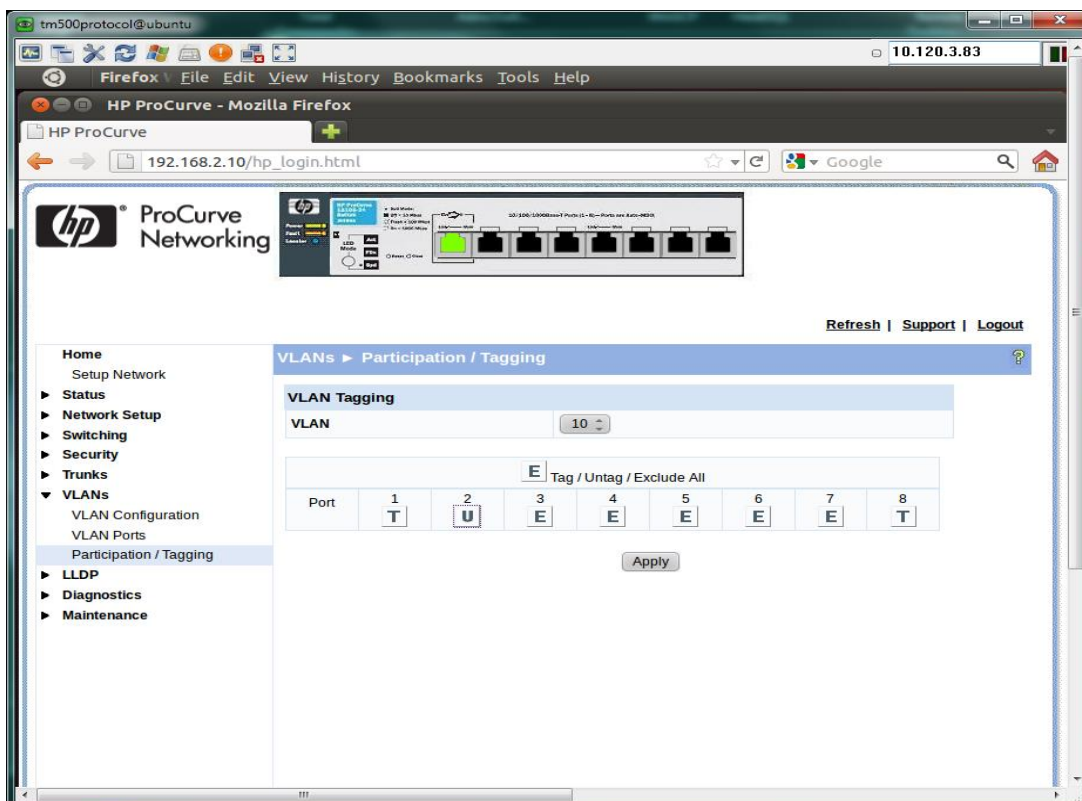
NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet

2. Select "VLANs" => "Participation / Tagging" in the left pane:



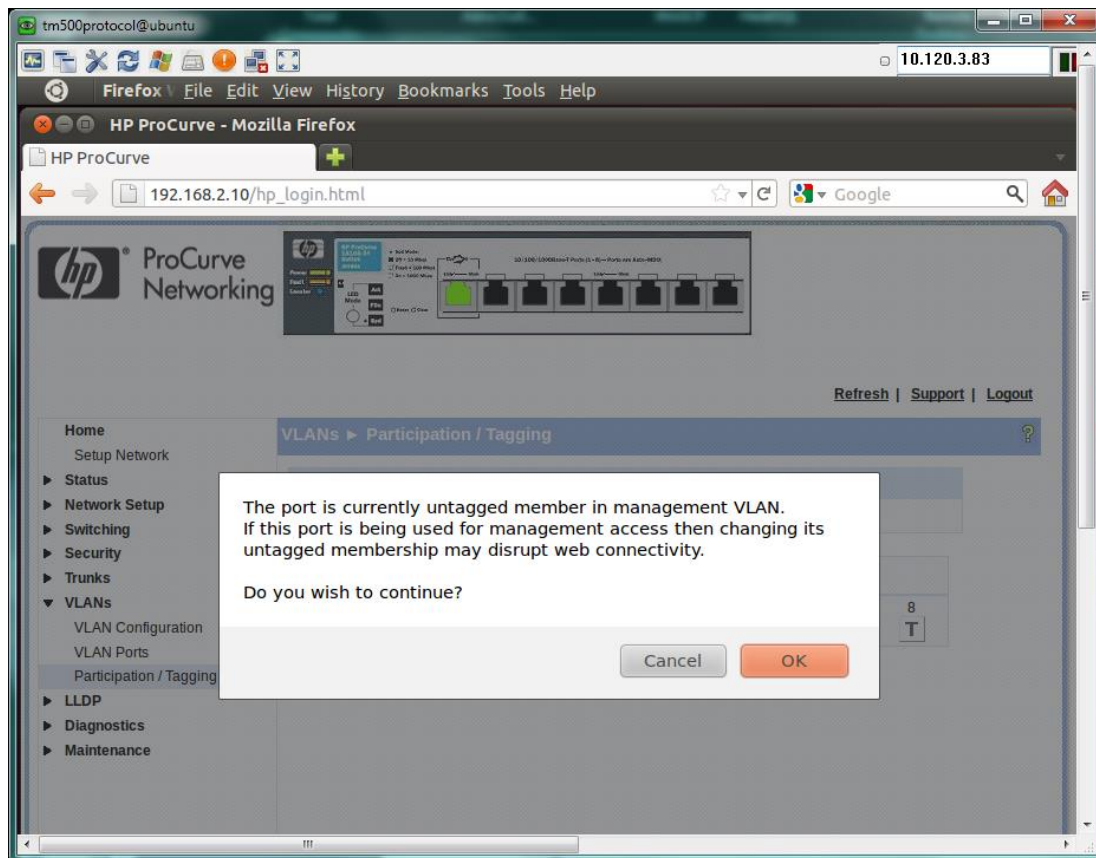
3. In the VLAN drop-down box (as shown in the right pane below), select VLAN ID 10.
4. Set the ports as follows;
 - a. Ports 1 and 8 as tagged members ("T");
 - b. Port 2 as untagged ("U"),
 - c. All remaining ports excluded ("E")
5. Click "Apply":



6. Click "Apply", then "OK" at the membership warning:

NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet



7. Repeat steps 3-6 for VLAN ID's 11 through 15, referring to the following sequence of partial screenshots for each of the VLAN ID's;
 - a. Ports 1 and 8 must always be "T"agged members,
 - b. Port 3 through 7 respective to the VLAN ID will be an "U"ntagged member (see pictures below),
 - c. The rest will be "E"xcluded.

VLAN 11

VLANs > Participation / Tagging

VLAN Tagging

VLAN 11

Port	1	2	3	4	5	6	7	8
	T	E	U	E	E	E	E	T

Apply

VLAN 12

VLANs > Participation / Tagging

VLAN Tagging

VLAN 12

Port	1	2	3	4	5	6	7	8
	T	E	E	U	E	E	E	T

Apply

VLAN 13

NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet

VLANs ▶ Participation / Tagging

VLAN Tagging

VLAN 13 ▼

Port	1	2	3	4	5	6	7	8
	T	E	E	E	U	E	E	T

Apply

VLAN 14

VLANs ▶ Participation / Tagging

VLAN Tagging

VLAN 14 ▼

Port	1	2	3	4	5	6	7	8
	T	E	E	E	E	U	E	T

Apply

VLAN 15

VLANs ▶ Participation / Tagging

VLAN Tagging

VLAN 15 ▼

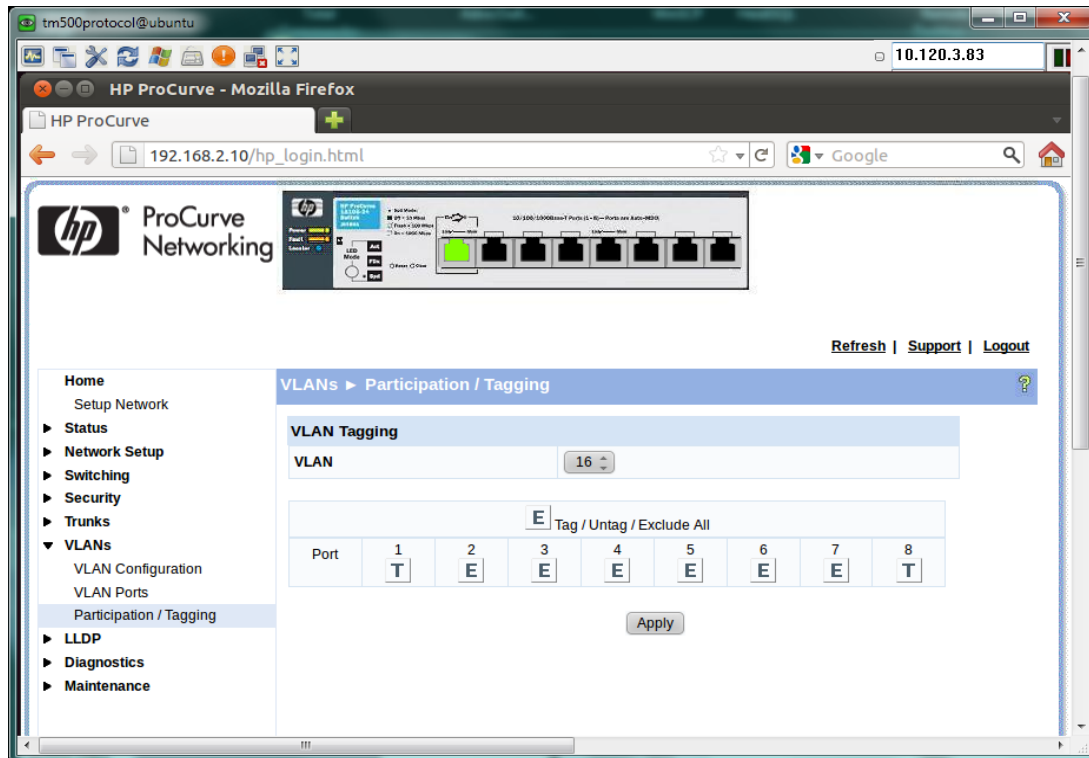
Port	1	2	3	4	5	6	7	8
	T	E	E	E	E	E	U	T

Apply

NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet

8. For VLAN ID 16 through 21, set;
 - a. Port 1 and 8 will all be "T"agged members,
 - b. All other ports "E"xcluded:



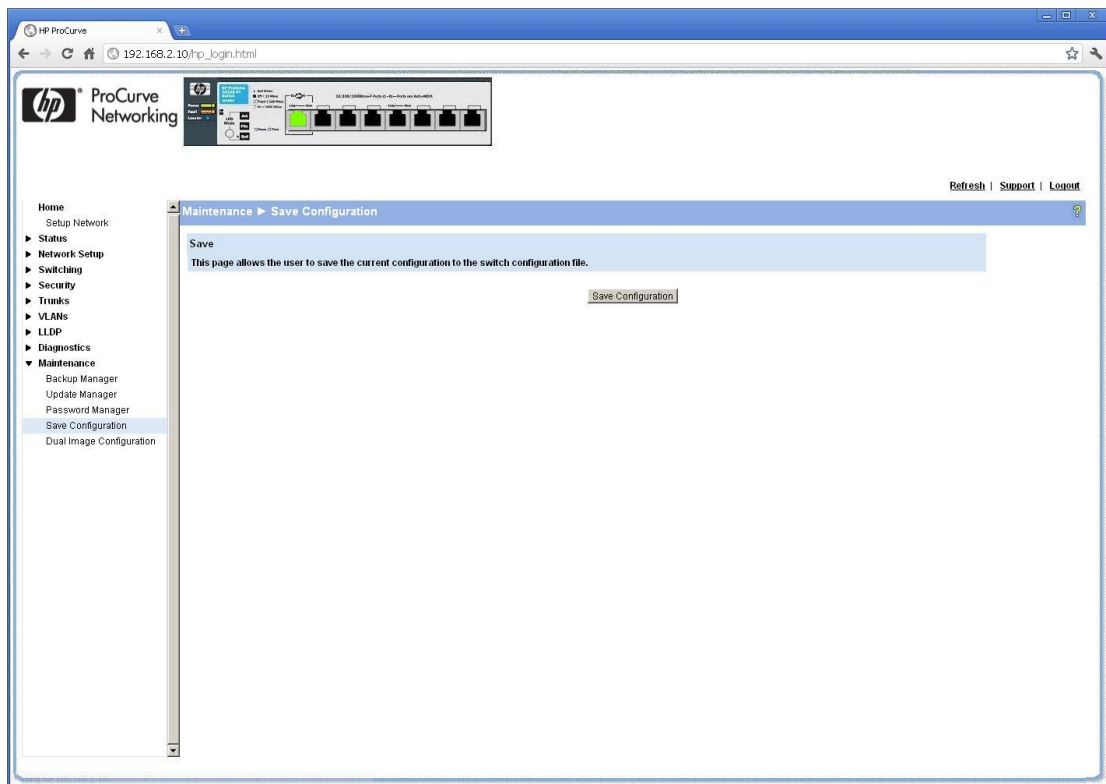
Tick the Test Record when passed ☒

3.3 VLAN Save Configuration

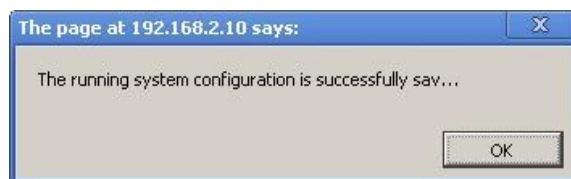
1. Select "Maintenance" => "Save Configuration" in the left pane.
Click "Save Configuration" button.

NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet



2. Ensure the following dialogue box confirming the save operation is displayed



Tick the Test Record when passed ☒

NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet

4 Shenick DiversifEye Edge/Core Configuration

The basic configuration of any Shenick unit needs to be changed before use. This section references a separate configuration document which must be completed before the Shenick units can be considered complete and ready to ship.

4.1 Configure Shenick

1. Complete the test procedures detailed within test document: TE500/002. The 8-port Network Switch configured in this document should be used in place of the one detailed in TE500/002.

Tick the Test Record when passed ☒

5 UUT Results Summaries

When **all** testing has been completed, print out the test results summary sheets for the adjustment and verification stages using Review. Check that:

...every adjustment and verification applicable to the UUT has been carried out.

...the verdict for every adjustment and verification is **passed**.

Failures and warnings must not be ignored unless there are known valid reasons to do so. If in doubt, obtain advice from an engineering authority. If a UUT cannot be re-worked to achieve a passed verdict then a valid concession note must be in force to allow this deviation. In this case, the results of the failed UUT must be inspected to ensure that they comply with the terms of the concession.

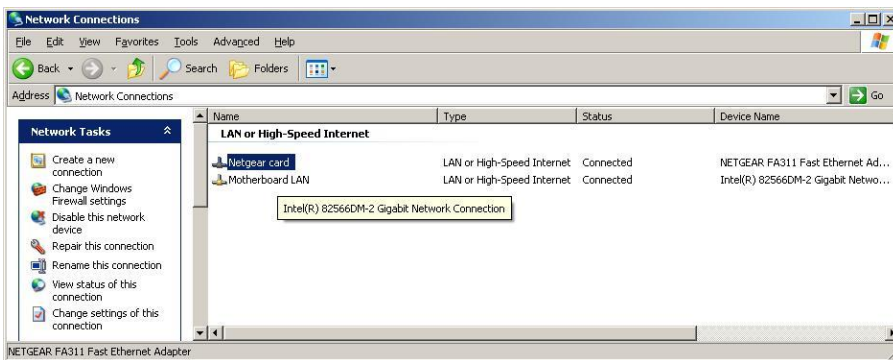
Attach the results summary sheets to the Test Record 

6 Appendix A – Changing the PC IP address

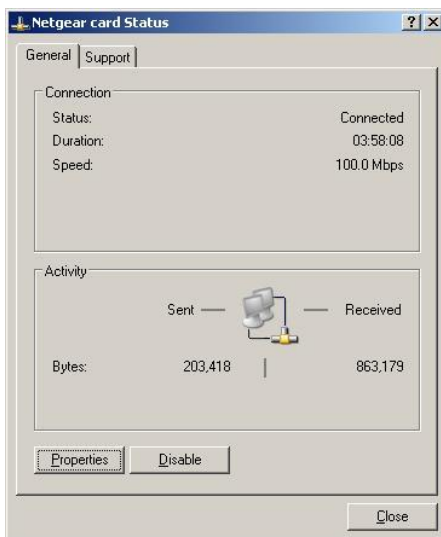
Ideally, a PC with two network cards should be available to perform this configuration to avoid repeated configuration changes.

6.1 Changing the PC IP address to suit the UUT

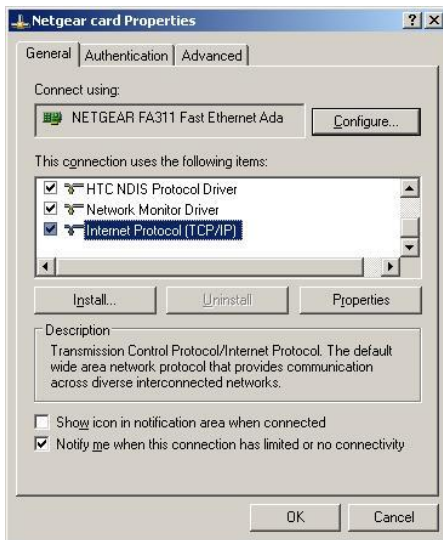
1. ⚠ Do not proceed beyond this point with the PC connected to any network other than the unit being configured.
2. Open the Network Connections in: Start – Settings – Control Panel.
3. Choose & open the appropriate network card (if there is more than one present);




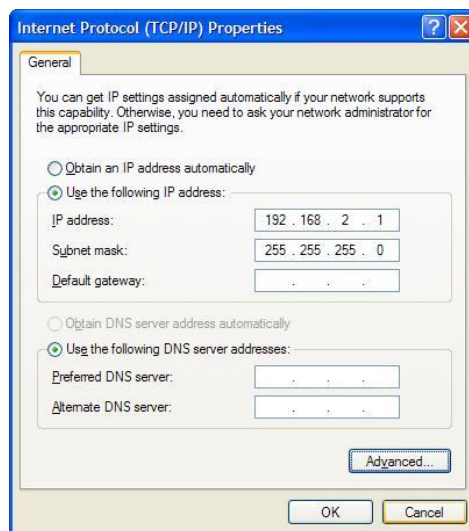
4. Click 'Properties';



5. Select 'Internet Protocol (TCP/IP)' and click 'Properties';



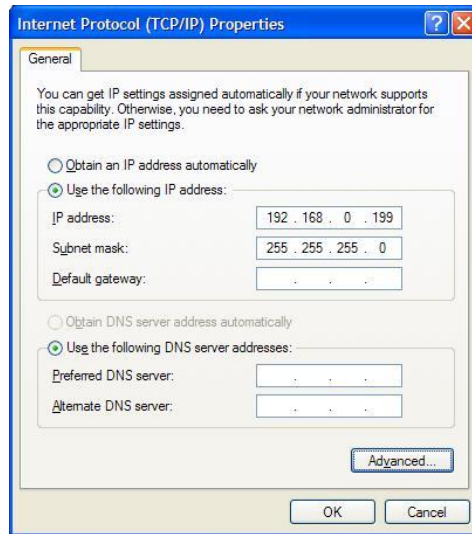
6.  Record the existing IP address and Subnet mask (this will allow the PC to function correctly after this configuration process).
7. Change the network connection to;
 - a) For Section 3, Network Switch Configuration, set this address;
 - IP Address: **192.168.2.1**
 - Subnet mask: **255.255.255.0**



- b) For Section 4,

Shenick DiversifEye Edge/Core Configuration, set this address;

- IP Address: **192.168.0.199**
- Subnet mask: **255.255.255.0**



8. Click 'OK' on all successive windows to accept the changes.

6.2 Restoring the PC IP address to the original setting

1. ⚠ Do not connect the PC with a fixed static IP address to the company network.
2. Repeat the steps in 6.1 above, substituting the original IP address (as recorded in step 6) into step 7.

NOT CONTROLLED WHEN PRINTED. CHECK STATUS BEFORE USE

The controlled location for this document is the company intranet