**Test Report for: 1.12.6 UNUSED PHYSICAL INTERFACE DISABLING**

**Product:** ProductName

**Model No:** ModelNo

**Test Report No:** D76001-TR-IPR-1.12.6-V1.0

**Assessment:** As per ITSAR-IPR-0001 V1.0.1 (1.12.6 Unused Physical Interface Disabling)

**DELTAPHI LABS PRIVATE LIMITED**

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# Test Report

|  |  |
| --- | --- |
| * **TSTL Name** | Deltaphi Labs Pvt Ltd (DLPL) |
| * **Applicant Name** |  |
| * **Application Number** | AppNo |
| * **Applicable ITSAR** | ITSAR-IPR-0001 V1.0.1 (1.12.6 Unused Physical Interface Disabling) |
| * **TSTL Document ID** | D76001-TR-IPR-1.12.6-V1.0 |
| **DUT Details: -** | |
| * **DUT Make** | DUTMAKE |
| * **DUT Model no** | ModelNo |
| * **DUT Serial Number** | SerialNo |
| * **DUT Software Version** | SoftwareV |
| * **OEM Supplied Document list:** |  |
| * **OEM Doc, File name, Page no** |  |
| * **Tools used and version** | Wireshark v (4.0.10), Ubuntu v (22.04) |
| * **Test Details: -** | |
| * **Test Engineer** | ##Tester Name## |
| * **Authorized By** | Krishnan V |
| * **Condition of SUT/DUT** | Working |
| * **Location of Test Performed** | At LAB |
| * **Date of Receipt of SUT/DUT** | NA |
| * **Date of Commencement of Testing** | ##Insert Date## |
| * **Date of Completion of Testing** | ##Insert Date## |
| * **Test Report Issued Date** | ##Insert Date## |
| * **Total Number of Pages** | ##InsertPages## |

**Change log:**

|  |  |
| --- | --- |
| Date | - |
| Changed By | - |
| Change details | - |

# Report Summary

A sample unit of M/sProduct: **Brand**, Model: **ModelNo** Serial No. **SerialNo** with Interface- was tested as **per ITSAR standard ITSAR-IPR-0001 V1.0.1 (1.12.6 Unused Physical Interface Disabling).** The DUT meets the requirement of the standard as mentioned above and is Compliant. For details, please refer the test results.

|  |  |  |
| --- | --- | --- |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| ##Insert Name##  **Test Engineer** | Vasantha K  **Reviewed By** | Krishnan V  **Authorized By** |

**Remarks:**

1. DUT (Device Under Test).
2. This test report refers to the only particular item submitted for testing.
3. This test report shall not be reproduced except in full without the written permission of Lab Directors of DLPL.
4. DLPL is only responsible for the reported results of tested sample(s), test sample submitted by customers.
5. DLPL is not responsible for the accuracy of information provided by the customer.

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# Section 1: Product Assessed

## 1.1 ITSAR Section No & Name:

Section 1.12: Other Security requirements

## Security Requirement No & Name:

1.12.6: Unused Physical Interfaces Disabling

## 1.3 Requirement Description:

The network product shall support the mechanism to verify all the physically accessible

interfaces. Physically accessible Interfaces which are not under use shall be disabled by

configuration that they remain inactive even in the event of a reboot.

Note: List of the default used Physical Interfaces/Ports as given by the vendor shall match the

list of Physical Interfaces/Ports that are necessary for the operation of the Network product.

## 1.4 Reference Number:

NA

# Section 2: DUT Confirmation Details

## 2.1 DUT:

Product&Software

## 2.2 DUT General Information:

|  |  |
| --- | --- |
| * DUT Make | * ProductName |
| * DUT Model no | * ModelNo |
| * DUT Serial Number | * SerialNo |
| * DUT Software Version | * SoftwareV |

##### **Table 2.2.1 DUT General Information**

## 2.3 DUT Photographs:

Picture1

Picture2

Picture3

Picture4

## 2.4 DUT Access Credentials:

|  |  |  |  |
| --- | --- | --- | --- |
| **Username of the Account** | **Password of the Account** | **Group** | **Privileges** |
| Username | Password | UserGroup | Privilege |

### Table 2.4.1 DUT Access Credentials

## 2.5 DUT Interface Information:

|  |  |  |  |
| --- | --- | --- | --- |
| **Interfaces** | **No.of Ports** | **Interface Type** | **Interface Name** |
| USB (serial) | 1 Port(s) | Physical | USB Port |
| SFP | 48 Port(s) | Physical | 1GE/10GE/25GE |
| QSFP | 6 Port(s) | Physical | 40GE/100GE |
| Console | 1 Port | Physical | Console |
| LAN | 2 Ports | Physical | MgmtEth 0/RP0/CPU0/0, TOD |

## 2.6 DUT Configuration:

* DUT is connected to lab testing machine via console cable.
* DUT is pre-configured with IOS XR Version 24.1.2, without the presence of a webserver version.

Picture5

# Section 3: Test Plan

* 1. **No. of Test Scenarios/Test-Case required.**

**3.1.1** **Test Scenario 1.12.6:** To verify whether physical interfaces that are not in use have been disabled through configuration even after reboot.

## 3.2 Pre-condition:

1. Tester has an account with username and password in the network product.

2. The DUT that is tested – has the following account and their respective privileges the account mentioned below in the table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Username of the Account** | **Password of the Account** | **Group** | **Privileges** |
| Username | Password | UserGroup | Privilege |

##### ***Table 3.2.1 Log-In Credentials***

## Execution Steps as Per Scenario:

**3.3.1** **Test Scenario 1.12.6:** To verify whether physical interfaces that are not in use have been disabled through configuration even after reboot.

1. To access DUT locally, connect the Testing machine to DUT via Console.
2. To login into DUT, Enter username “admin” and password “admin@123”.
3. To check the status of all physical interface, Enter below command:

show interface brief

1. To change the status of management interface from Down to up, Enter below command.

int Mgmt 0/RP0/CPU0/0

no shut

commit

1. To check the status of Management Interface, Enter the below command:

show interface brief

1. To reboot the DUT, Enter the below command:

reload location all

1. Verify that physical interface status remains unchanged, even after the reboot.
   1. **Test-Bed set-up Diagram Per Scenario:**

Picture6

***Figure 3.4.1 – Test-Bed set-up Diagram for local Access***

* 1. **Tools Used per Scenario:**

|  |  |  |
| --- | --- | --- |
| **Command/Options Used** | **Execution Step** | **Purpose of the Command** |
| Ubuntu | 1.12.6.1 | Ubuntu, being a Linux-based operating system, provides a wide range of functions that can be used through the command line |

***Figure 3.5.1 – Tools Used per Scenario***

# Section 4: Test Execution

## Test Case Number:

1.12.6.1 ITSAR IP Router

## 4.1.2 Test Case Name:

To verify whether physical interfaces that are not in use have been disabled through configuration even after reboot.

## 4.1.3 Test Case Description:

To ensure that all physically accessible interfaces that are not in use are disabled through configuration and remain inactive even after a reboot.

## 4.1.4 Test-bed Diagram:

[Refer the Test Bed Diagram on the Test-Plan above](#TestBed_setup_Diagram_Per_Sceanrio)

## 4.1.5 Tools Used:

[Refer the Tools Used per Scenario on the test plan](#Tools_Used_per_Scenario)

## Execution Steps:

1. To access DUT locally, connect the Testing machine to DUT via Console.
2. To login into DUT, Enter username “**admin**” and password “**admin@123**”. - refer figure 4.1.6.1.

Picture7

***Figure 4.1.6.1 –login into DUT via local access***

1. To check the status of all physical interface, enter below command- refer figure 4.1.6.2.

show interface brief

Picture8

***Figure 4.1.6.2 – Default physical interface status***

1. To change the status of management interface from Down to up, enter below command - refer figure 4.1.6.3.

conf

int Mgmt 0/RP0/CPU0/0

no shut

commit

Picture9

***Figure 4.1.6.3 – Configuring Mgmt Interface***

1. To check the status of Management Interface, Enter the below command- refer figure 4.1.6.4.

show interface brief

Picturea0

***Figure 4.1.6.4 – Checking Mgmt Interface status***

1. To reboot the DUT, Enter the below command- refer figure 4.1.6.5.

reload location all

Picturea1

***Figure 4.1.6.5 – Rebooting the DUT***

1. Verify that physical interface status remains unchanged, even after the reboot.

## Evidence Provided:

* All physical interfaces present on DUT are disabled by default.

Picturea2

* After changing the status of management interface from down to up, it remains up even after reboot. Additionally, all other physical interfaces that were down remained down even after the reboot.

Picturea3

# Section 5: Test Observation and Result

## 5.1 Test Observation

**Test Scenario 1.12.6.1:**

* All physical interfaces present in DUT are disabled by default.
* After changing the status of management interface from down to up, it remains up even after reboot. Additionally, all other physical interfaces that were down remained down even after the reboot.

## 5.2 Test Case Result

|  |  |  |
| --- | --- | --- |
| ITSAR IP Router No. | Test name | Actual Result |
| 1.12.6.1 | To verify whether physical interfaces that are not in use have been disabled through configuration even after reboot. | **PASS** |

# 

# Section 6: Raw Logs

These logs provide evidence that the specific tester executed the test at a specific date and time on the mentioned DUT.

* SS\_4.1.6.1, SS\_4.1.6.2, SS\_4.1.6.3, SS\_4.1.6.4, SS\_4.1.6.5
* DUTlog\_1.12.6.txt