TB Academy

*T*media[TM] Gateways – Essentials and Configuration

eLearning Activity Book (with answers)

March 2017
Release: 2.9.65

User Interface

1.1 Login and Users

1.1.1 Login Activity

⊕ 15 minutes

In this activity, you will connect to the *T*media Gateway web portal, login and get familiar with the user interface.

For the system connection information, refer to the file *"TMGEC_lab_connection_info.pdf"* :

1. Open your web browser, type the http address

2. In *"Username"*, type the given username

3. In *"Password"*, type the given password

In the web portal interface, find the below information and write down where you found it:

1. Current Tctrl OS version _____*[A1] [2.9.65, top right]*_____

2. Logged user _____*[A2] [top right]*_____

3. Logout _____*[A3] [upper right corner or last item in left menu]*_____

4. Describe the hierarchical structure in the left menu (1st level->2nd level->etc.) for:

    a) MTP2 _____*[A4] [* **tb_academy_demo_config** *->UNIT01->TDM Signaling->MTP2]*_____

    b) ISUP _____*[A5] [* **tb_academy_demo_config** *->SS7->ISUP]*_____

    c) Call Trace _____*[A6] [Maintenance->Call Trace]*_____

    d) Users _____*[A7] [Users]*_____

5. User group permission _____*[A8] [Users, User Groups tab]*_____

6. In the users view, how to sort the table per *"User Group"* _____*[A9] [Click on any columns of the first row]*.

1.1.2 User Activity

⊕ 5 minutes

The goal of this activity is to browse through users groups permissions.

In the web portal interface:

1. Enumerate which menus your users have *''read''* only access? _____
   _____[A10] [Backups, System, Hosts, Applications, Packages And Licenses]_____
   _____[Logs, Report, Statistics, Call Trace, Test Call, Users]_____

1.2 Configurations

1.2.1 Configuration Activity

⊙ 10 minutes

In this activity, you will learn how to use configurations. Explore the following items:

1. Click on *''Configurations''* menu

   a) What happen when you click on the action *''Configure Now''* of *''tb_academy_initial''* ? _____
      _____[A11] [changed the displayed configuration]_____
      i. Find another way of getting the same result from the **left menu**? _____
         _____[A12] [select a configuration from the drop down menu]_____
   b) What is the meaning of *''Active configuration''*? _____
      _____[A13] [the configuration that is actually applied on the system]_____

2. From **the left menu**

   a) Enumerate the items that **are not included** in a configuration?_____
      _____[A14] [Status, Backups, System, Configurations, Maintenance, Users, Logout]_____
   b) Select *''tb_academy_demo_config''* configuration, and click on *''IP Interfaces''*
      i. What are the tabs in the main view? _____
         _____[A15] [Virtual Ports, IP Interfaces, RTP Port Ranges, Bondings and Tunnels]_____
      ii. What is the difference between *''Configuration''* and *''Status''*? _____
         _____[A16] [the configuration tab shows the configuration parameters]_____
         _____[the status tab shows the statistics and status]_____

1.2.2 Copy Configuration Activity

⊙ 5 minutes

In this activity, you will create your own configuration. You will be using your configuration for all the other activities of this class.

1. Click on *''Configurations''* menu

2. Click on the *''Copy''* link beside *''tb_academy_initial''*

   a) In *''Name''*, type *''yymmdd_name_surname''* (i.e. *''160101_john_smith''*)
   b) Click on *''Copy''*

3. Click on your configuration name

   a) Click on *''Web Profiles''*

b) Set *"ISUP"*, *"SIP"*, *"Gateway Application"*, *"H.248"*, *"Sigtran"*, *"M2UA"* and *"M3UA"* checkbox only (leave all other checkbox cleared)

c) Click on *"Save"*

4. Select your new configuration as the current displayed configuration

☞ Validate your Results

You should see the following:

- Your configuration name (*"yymmdd_name_surname"*) in the left menu just under the *"Configurations"* item

- If you click on *"TDM Line Interfaces"*, there is nothing listed

1.2.3   Validate/Activate Configuration Activity

☉ 5 minutes

In this activity, you will learn how to lock, validate and activate a configuration.

1. Click on the *"System"* menu, what do you see? _____[A17] [Lock active configuration]_____
    _____[Activate and Validate configuration, Activate and Validate package]_____

2. What is the purpose of *"Activate Configuration"*? _____[A18] [change the running configuration]_____

3. What happen if you modify your configuration but you don't activate it?_____
    _____[A19] [does not affect the system]_____

4. Why would you like to validate your configuration?_____
    _____[A20] [to avoid obvious misconfigurations before activating]_____

1.3   Status

1.3.1   System Status Activity

☉ 10 minutes

In this activity, you will explore the system *"Status"* menu and the status tab views.

1. Click on the *"Status"* menu

   a) What do you see? _____[A21] [Status Refresh]_____
       _____[Status tabs with colors (Green, Orange, Red and Grey)]_____
       _____[This view is the main view or dashboard showing the current status and states]_____

   b) Find why the *"Hardware Units"* tab is orange color? _____[A22] [voip1 down)]_____

   c) What is the meaning of orange? _____[A23] [warning)]_____

   d) Find why the *"Tdm Lines"* tab is red color? _____[A24] [LI_UNIT01_05_T1 is down)]_____

   e) Find why the *"Nap"* tab is red color? _____[A25] [SBC2 is unavailable)]_____

   f) How can you refresh the information? _____[A26] [Status Refresh->click on "Now" button]_____

   g) What are the possible refresh durations? _____[A27] [From "Refresh every": 2, 5, 10, 15, 30 sec]_____

2. Click on the *"SS7 Mtp2"* tab

a) Click on *"XTEL_MTP2_02_16"*

b) In *"Status Level"*, select *"Level 0"*

c) Click on *"Now"* button

   i. Note your observations _____[A28] [more statistics are displayed)]_____

   ii. Which level shows the less information? _____[A29] [level 4)]_____

   iii. What is the default level? _____[A30] [level 2)]_____

3. Check *"Reset status"* checkbox

4. Click on *"Now"* button

a) Look at the statistics and note your observations_____

_____[A31] [statistics are refreshed but does not seem to be reset]_____

5. Uncheck *"Reset status"* checkbox

6. Click on *"Now"* button

a) Look at the statistics and note your observations_____

_____[A32] [statistics were reset]_____

7. Click on *"Refresh every"* drop down menu and select *"5 seconds"*

8. Wait for the next status refresh, check *"Reset status"*

9. Wait for the next status refresh, uncheck *"Reset status"*

a) Look at *"In service duration"* (ms) and note your observations_____

_____[A33] [was reset about 5000ms ago]_____

1.3.2   Hardware Status Activity

⊙ 5 minutes

In this activity, you will explore the *"Hardware Units"* status tab view.

1. Click on the *"Hardware Units"* menu

2. Click on the *"Hardware Units Status"* tab, what do you see?_____

_____[A34] [List of hardware units (telecom unit) controlled by this system]_____

3. Click on the *"Ready/Active"* unit

4. Find how to reboot a Hardware Unit?_____

_____[A35] [States tab->"Reboot unit" select yes, click "Apply states"]_____

a) Does the configuration needs to be Activated for the reboot to take effect?_____

_____[A36] [No. Controllable states in any status view are meant for troubleshooting]_____

_____[and does not need to be activated. The system "remember" those settings.]_____

5. Where is the Unit license? _____[A37] ["Licensed features" tab]_____

a) What is the value for each of the element below:

   i. *"MAX_TRUNK"* _____[A38] [16]_____

   ii. *"VOIP_MAX_CHANNELS"* _____[A39] [512]_____

   iii. *"SS7_MTP2_LINKS"* _____[A40] [64]_____

   iv. *"NP1_BACKUP"* _____[A41] [0]_____