

INTERNAL Procedures

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Prepared for: Stefan Heck
Version: 1.1

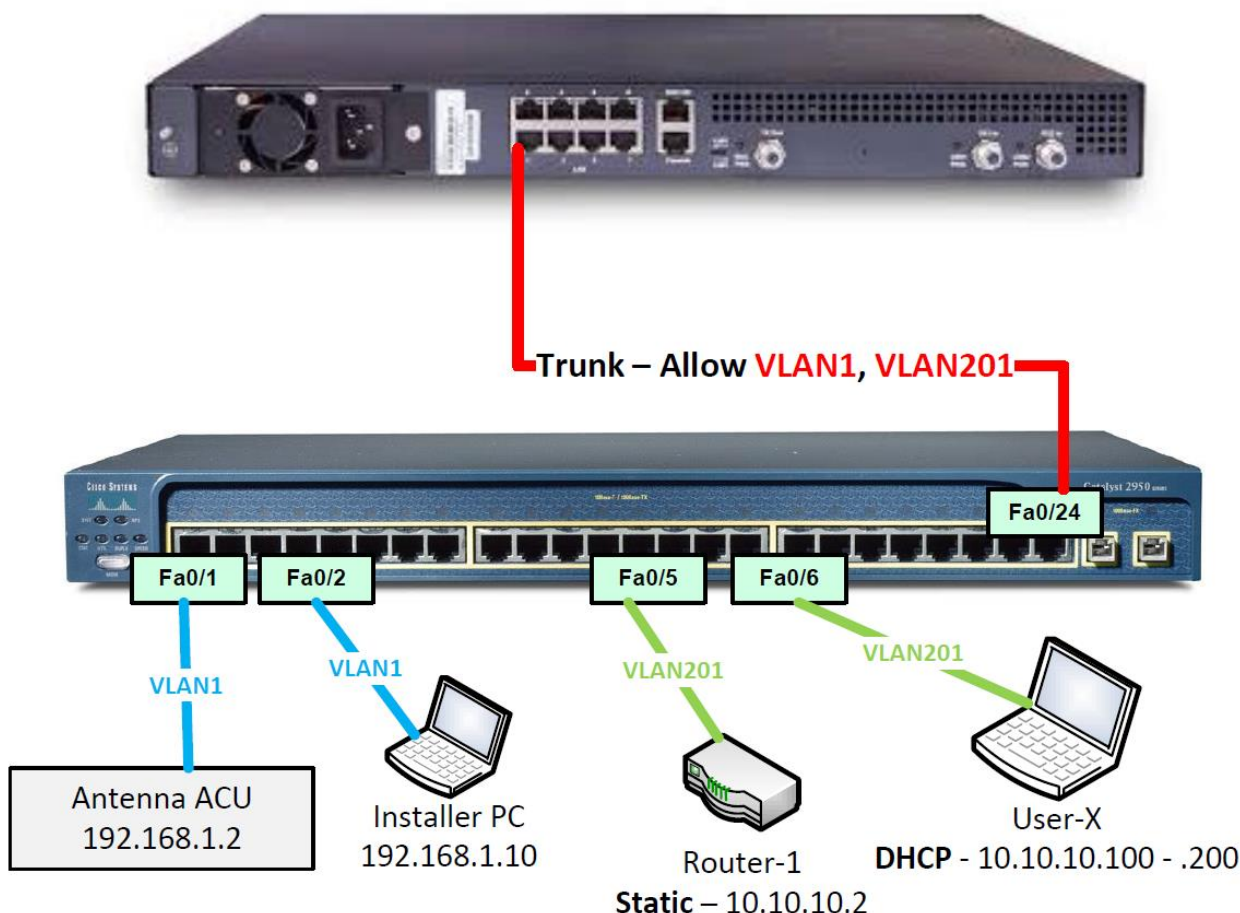
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How to activate Terminal on Thor 7

1.1 Default Connections to X7



Basic example of a Remote-Side Telenor Thor-7 Network



Example above explained:

- X7 Port #1 connected to **VLAN-capable-external-switch** Port Fa0/24. Port on external switch is configured as **Trunk** allowing **VLAN1** (Default VLAN) and **VLAN201** (Traffic VLAN).
- At least two ports needs to be configured as **VLAN1** (Default VLAN) for **OpenAMIP** and **Admin access**. Hence ports Fa0/1 and Fa0/2 are configured as VLAN1.
- It's advisable to leave some ports unassigned for future needs.
- Ports Fa0/5 and Fa0/6 are configured to allow **VLAN201** (Traffic VLAN). Here you will connect your Router, Hosts, etc.. Depending on your network size and preferences.
- Traffic **VLAN201**, by default, will have **DHCP range** of 10.10.10.100 – 10.10.10.200. If you need static IP on your hosts/routers use .2..99
- Default Modem IP is 10.10.10.1 in VLAN201 (Traffic) and 192.168.1.1 in VLAN1 (Admin).

1.2 Customer perspective

1. Perform installation onboard the vessel according to Antenna Providers manual.
2. Install the necessary options files and Velocity software on your X7 modem.

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3. Note, allow time for OTC to complete automatically. Progress can be tracked in ACU GUI.
 - a. **For Maritime:** Do **NOT** start commissioning vizard when OTC is finished.
 - b. **For Fixed:** Start commissioning Vizard when OTC is finished.
4. Verify that antenna is tracking satellite and you get Rx and Tx lock on the modem. Note that this might take a while, depending on which Beam you are in. Modem tries all 9* frequencies used on Thor 7 for around 30 seconds until it gets Rx lock and downloads OTA_beammap.json, after which it will start using geo location.
5. Contact TSBc's Service Desk at +47 6707 3470 / +47 05002.
6. Provide following information when calling TSBc Service Desk:
 - a. Your name
 - b. Name of company you are representing
 - c. Name of vessel/site
 - d. Modem type (X7)
 - e. Serial Number of modem
 - f. Antenna type (For verification/troubleshooting of configuration files)
 - g. Weather
 - h. Confirmation that One Touch Commissioning (OTC) has been completed successfully.
 - i. Confirmation of Rx lock towards Thor 7.
 - j. Any other details you deem important.
7. TSBc's Service Desk shall create a Change Order called "Thor 7 iDirect Service Activation" <Vessel name> <Serial Number>.
8. Service Desk shall use the Pulse NMS to activate your terminal on the Velocity platform.

Within 10 minutes of TSBc activating your terminal you can expect the terminal to come online on Thor 7. NET led on X7 modem will turn solid **green** when terminal is online.

9. If modem doesn't come online by itself the following might be necessary:
 - a. You might need to restart falcon process. "**service idirect_falcon restart**" from Linux

A screenshot of a Windows command prompt window. The title bar reads "C:\WINDOWS\system32\cmd.exe - ping 213.234.64.31 -t". The window content shows the Microsoft Windows version 6.1.7601 copyright notice, followed by the command "C:\Users\t725955>ping 213.234.64.31 -t". The output shows six successful ping replies from 213.234.64.31 with 32 bytes of data, response times ranging from 547ms to 561ms, and a TTL of 45.

```
C:\WINDOWS\system32\cmd.exe - ping 213.234.64.31 -t
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\t725955>ping 213.234.64.31 -t

Pinging 213.234.64.31 with 32 bytes of data:
Reply from 213.234.64.31: bytes=32 time=549ms TTL=45
Reply from 213.234.64.31: bytes=32 time=559ms TTL=45
Reply from 213.234.64.31: bytes=32 time=553ms TTL=45
Reply from 213.234.64.31: bytes=32 time=547ms TTL=45
Reply from 213.234.64.31: bytes=32 time=551ms TTL=45
Reply from 213.234.64.31: bytes=32 time=561ms TTL=45
```

Verify that you are able to pass traffic when connected to External Switch on VLAN 201. Ping 8.8.8.8 or similar. TSBc shall verify that we can ping your terminals Public Interface, if TSBc can ping public Interface on modem, check external switch configuration on vessel.

10. That is it. Terminal is activated and should be able to log on and enjoy service on Thor 7.

If there are any questions contact Service Desk at +47 6707 3470 / +47 05002.

Helpdesk.nittedal@telenor.com

* Subject to change.