



TV without boundaries.

## ***Firmware loading procedure - USB***

**T1**

Version: 0.9 | Draft  
Authors: Lucas Lopes  
October 11, 2017

Owner: [Owner]

Approvers:

Distribution list:

## Contents

<b>1</b>	<b>Introduction .....</b>	<b>5</b>
<b>2</b>	<b>Prerequisites .....</b>	<b>5</b>
2.1	Installation Images and configuration packages.....	5
2.2	Connect Equipment .....	6
2.2.1	Keyboard and VGA .....	6
2.2.2	ShMC IP configuration.....	6
2.2.3	Switch IP configuration .....	7
2.2.4	Architecture of Blades and Servers .....	8
2.2.5	Configuration of T1 Switch .....	10
2.2.6	Static Interface connection .....	12
<b>3</b>	<b>Installation media creation .....</b>	<b>13</b>
<b>4</b>	<b>Installation procedure.....</b>	<b>19</b>
4.1	Overview .....	19
4.2	Firmware settings .....	20
4.3	Ericsson Installer .....	22

## Figures

Figure 1:	Mini DisplayPort to VGA adapter cable. ....	5
Figure 2:	Micro USB 3.0 to USB OTG. ....	6
Figure 3 :	Architecture of Blades and Servers.....	8
Figure 4 :	Port Mapping .....	9
Figure 5:	Switch VLANs Configuration.....	10
Figure 6:	Disable unused ports by default .....	11
Figure 7:	Network Configuration at the end of the installation on Server 2. ....	12
Figure 8:	Network Configuration at the end of the installation on Server 2. ....	13
Figure 9:	T1 Blades – chassis rear panel. ....	13
Figure 10:	Rufus tool, select your language (English) .....	14
Figure 11:	Select image .....	15
Figure 12:	Rufus tool .....	16
Figure 13:	Rufus ready to copy .....	17
Figure 14:	Rufus Confirmation .....	18
Figure 15:	Imaging Done .....	19
Figure 16:	BIOS startup .....	20
Figure 17:	Load Default Values.....	21
Figure 18:	BIOS Main menu for System Date and Time.....	21
Figure 19:	USB key first in boot order .....	22
Figure 20:	Ericsson menu, Select “Install From USB on T1 2RU Konton BOM” .....	23
Figure 21:	Enter Serial number .....	24
Figure 22:	OS Deploy starting .....	25
Figure 23:	OS Deploy finished.....	25

Firmware loading procedure - USB – T1]

Figure 24: System rebooting ..... 26  
Figure 25: System is starting ..... 26  
Figure 26: root log in ..... 27

**Tables**

Table 1 – Glossary ..... 4  
Table 2 – Abbreviations ..... 4  
Table 3 – References ..... 4

**Table 1 – Glossary**

Term	Explanation

**Table 2 – Abbreviations**

Abbreviation	Meaning
ECO	Engineering Change Order
MPI	Assembly Instruction Procedure
SLP	System Loading Procedure
STP	System Test Procedure
SSP	Software Setup Procedure

**Table 3 – References**

Reference	Document name	Version

# 1 Introduction

This document describes the firmware loading procedure for T1 over USB.

# 2 Prerequisites

This document is part of the SLP. Please refer to the SLP document referenced in Agile to respect the whole production process.

MPI must have been completed first.

## 2.1 Installation Images and configuration packages

The following files referenced in the ECO are needed to complete this procedure:

- [1] ISO image of the T1 deployment USB key (referenced in the ECO)
- [2] EXE rufus tool to write the ISO image to the key

To complete the procedure, you will need the following material:

- USB Keyboard
- VGA monitor
- HUB USB 2.0 (Optional)
- USB 2.0 Key with at least 16GB of space.
- Operator PC running “Windows 7 Professional” with at least 10GB of free space
- Mini Display Port to VGA adapter cable (Figure 1)
- Micro USB 3.0 to USB OTG (Figure 2)
- A T1 BOM (referenced in the ECO)

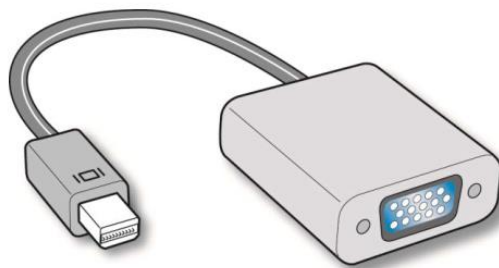


Figure 1: Mini DisplayPort to VGA adapter cable.

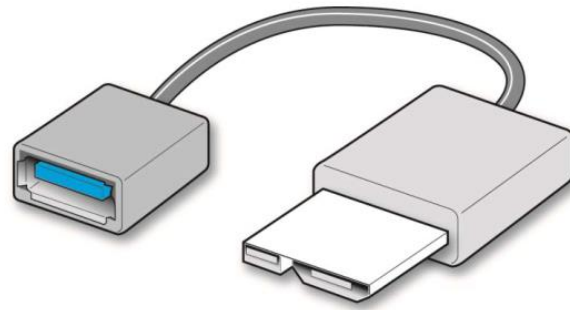


Figure 2: Micro USB 3.0 to USB OTG.

## 2.2 Connect Equipment

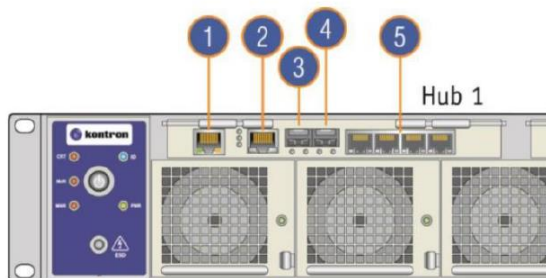
### 2.2.1 Keyboard and VGA

Use the Mini DisplayPort to VGA adapter cable to connect the VGA monitor. To connect the USB keyboard to a Server engine, the Micro USB 3.0 to USB OTG adapter can be used. In the case you need additional USB ports, you can use a USB hub.

### 2.2.2 ShMC IP configuration

#### **Step#1: Physical connections**

1. Connect appropriate cables from a power source to each power supply on the rear of the unit. The unit will power-on as soon as external power is applied.
2. Connect a serial cable from the Technician PC to the SYMKLOUD serial port (2 – shown below).
3. Connect a network cable from the Technician PC to the SYMKLOUD management port (1 – shown below).



I/O	Description
1	Management 1GbE RJ-45 port (Switch/ShMC 1) (Marked "MNGT" on the Hub 1 faceplate)
2	Console RJ-45 port (Switch/ShMC 1)
3	10GbE SFP+ stacking port (Switch/ShMC 1) (Marked "1" on the Hub 1 faceplate)
4	10GbE SFP+ uplink port (Switch/ShMC 1) (Marked "2" on the Hub 1 faceplate)
5	Quad 1GbE RJ-45 ports (Switch/ShMC 1) (Marked "3", "4", "5" and "6" on the Hub 1 faceplate)

**Step #2: ShMC IP configuration**

There are two ways available to configure the ShMC IP:

Using the console port:

1. Open a terminal window and configure the serial port to operate at 115200 baud
2. Press enter to make the login prompt appear and authenticate with login/password: admin/admin
3. View the ShMC management IP configuration with: ipmitool>lan print
4. Configure the ShMC management IP 10.0.3.X, where X is the last number of the T1 serial number.

For example: If the T1 serial number is 4E-123456, you will set the ip address 10.0.3.56.

```
ipmitool>lan set 1 ipsrc static
ipmitool>lan set 1 ipaddr 10.0.3.56
ipmitool>lan set 1 netmask 255.255.0.0
```

(Optional) At that point, the serial connection can be disconnected, since the other steps can be done with the web GUI.

### 2.2.3 Switch IP configuration

**Step #1: Configuring the switch management IP**

1. Open a Serial over Lan session with by opening a browser with the URL composed by the IP of the ShMC + the string /shell/. The '/' at the end is mandatory. For example: <http://10.0.3.56/shell/>
2. Login using console/admin.
3. Type S when prompted for the node number.
4. Type 1 when prompted for the payload number.
5. Press enter to make the login prompt appear and login using admin/admin.
6. Use the following command to show the switch management IP configuration:  
# show ip interface brief
7. Set a custom switch management IP 10.0.4.X, where X is the last number of the T1 serial number.  
For example: If the T1 serial number is 4E-123456, you will set the ip address 10.0.4.56.

```
# configure terminal
(config)# interface vlan 4093
(config-if-vlan)# ip address 10.0.4.56 255.255.0.0
(config-if-vlan)# end
# copy running-config startup-config
```

## Firmware loading procedure - USB – T1]

8. It's now possible to access the switch configuration WebGUI from your browser by typing <http://10.0.4.X>, where X is the last number of the T1 serial number. (Login admin /admin).

### 2.2.4 Architecture of Blades and Servers

A blade contains 2 Servers.

Each Server is connected to the switch 1 and the switch 2.

Server 1 is connected to the switch 1 with eno2 (ports 16 to 24), and with the switch 2 with eno1 (ports 7 to 15).

Server 2 is connected to the switch 1 with eno1 (ports 7 to 15), and with the switch 2 with eno3 (ports 16 to 24).

**EXAMPLE:** For the Blade 1 :

- Server 1 is connected to the switch 1 (port 16) with its interface eno2.
- Server 1 is connected to the switch 2 (port 7) with its interface eno1.
- Server 2 is connected to the switch 1 (port 7) with its interface eno1.
- Server 2 is connected to the switch 2 (port 16) with its interface eno3.

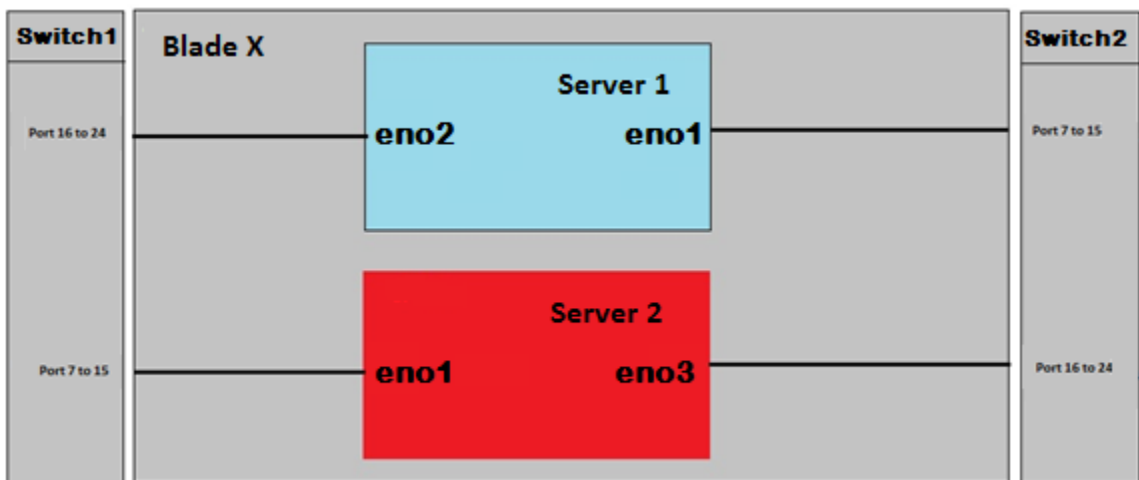


Figure 3 : Architecture of Blades and Servers



Firmware loading procedure - USB – T1]

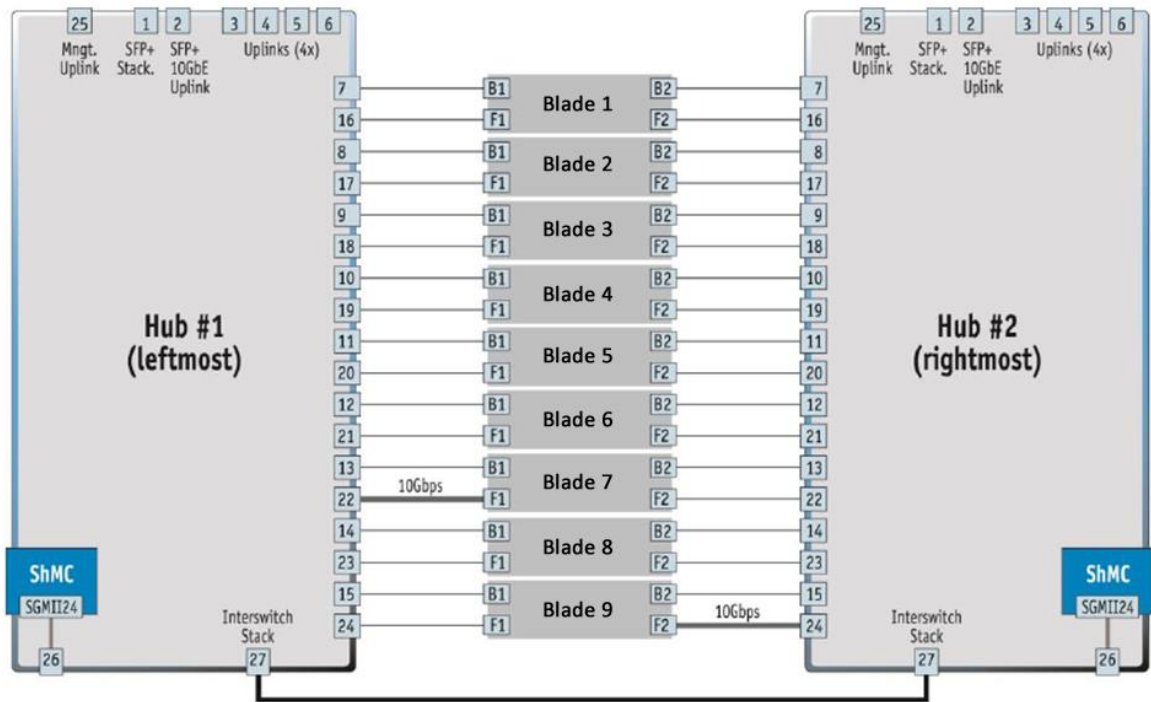


Figure 4 : Port Mapping

## 2.2.5 Configuration of T1 Switch

The T1 Switch must be configured before the installation of ISO on the Blades.

- In order to do this, connect to the UI of T1 switch, and select Switch 1 → Configuration → VLANs. (See Figure 5)
  - Allowed Access VLANs = “1,3000,4093,4094”
  - Port 3: Port VLAN = “3000”; Ingress Filtering = “checked”; Allowed VLANs=3000; Forbidden VLANs =”4093,4094” .
  - Port 25: Port VLAN = “4093”; Ingress Filtering = “checked”; Allowed VLANs=4093; Forbidden VLANs =”1,4094”.
  - Ports 2, 4, 5 and 6: Port VLAN = “1”; Ingress Filtering = “unchecked”; Allowed VLANs=1; Forbidden VLANs =”4093,4094”.
  - Ports 7 to 13: Port VLAN = “1”; Ingress Filtering = “unchecked”; Allowed VLANs=”1,3000,4093,4094”; Forbidden VLANs =”blank”.
  - Ports 14 to 24: Port VLAN = “1”; Ingress Filtering = “unchecked”; Allowed VLANs=”1,3000,4093”; Forbidden VLANs =”4094”.
  - Click on Save
  - Repeat the procedure in the Switch 2

**Global VLAN Configuration**

Allowed Access VLANs: 1,3000,4093,4094

Ethertype for Custom S-ports: 88A8

**Port VLAN Configuration for Switch 1**

Port	Mode	Port VLAN	Port Type	Ingress Filtering	Ingress Acceptance	Egress Tagging	Allowed VLANs	Forbidden VLANs
2	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1	4093,4094
3	Hybrid	3000	C-Port	<input checked="" type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	3000	4093,4094
4	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1	4093,4094
5	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1	4093,4094
6	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1	4093,4094
7	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093,4094	
8	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093,4094	
9	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093,4094	
10	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093,4094	
11	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093,4094	
12	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093,4094	
13	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093,4094	
14	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	
15	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	
16	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	4094
17	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	4094
18	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	4094
19	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	4094
20	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	4094
21	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	4094
22	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	4094
23	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	4094
24	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,3000,4093	4094
25	Hybrid	4093	C-Port	<input checked="" type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	4093	1,4094
26	Hybrid	1	C-Port	<input type="checkbox"/>	Tagged and Untagged	Untag Port VLAN	1,4093,4094	

Save Reset

Figure 5: Switch VLANs Configuration

## Firmware loading procedure - USB – T1]

2. Disable all unused ports by default. In order to do this, connect to the UI of T1 switch, and select Switch 1 → Configuration → Ports and disable ports 2,4,5 and 6. These ports can be activated by the customers if needed. (See Figure 6)  
Do the same for the switch 2.

The screenshot shows the 'Port Configuration for Switch 1' page. The left sidebar contains a navigation menu with 'Ports' selected. The main table lists 26 ports with columns for Port, Link, Speed (Current and Configured), Flow Control (Current Rx, Current Tx, Configured), Maximum Frame Size, and Excessive Collision Mode. Ports 2, 4, 5, and 6 are highlighted with red boxes, showing a 'Down' link status and 'Disabled' speed configuration.

Port	Link	Speed		Flow Control			Maximum Frame Size	Excessive Collision Mode
		Current	Configured	Current Rx	Current Tx	Configured		
2	Down	Down	Disabled	X	X	<input type="checkbox"/>	10056	<>
3	1Gfdx	1Gfdx	Auto	X	X	<input type="checkbox"/>	10056	Discard
4	Down	Down	Disabled	X	X	<input type="checkbox"/>	10056	Discard
5	Down	Down	Disabled	X	X	<input type="checkbox"/>	10056	Discard
6	Down	Down	Disabled	X	X	<input type="checkbox"/>	10056	Discard
7	1Gfdx Fiber	1Gbps FDX	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
8	Down	Down	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
9	1Gfdx Fiber	1Gbps FDX	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
10	1Gfdx Fiber	1Gbps FDX	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
11	Down	Down	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
12	1Gfdx Fiber	1Gbps FDX	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
13	Down	Down	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
14	Down	Down	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
15	Down	Down	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
16	1Gfdx Fiber	1Gbps FDX	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
17	Down	Down	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
18	1Gfdx Fiber	1Gbps FDX	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
19	1Gfdx Fiber	1Gbps FDX	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
20	Down	Down	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
21	1Gfdx Fiber	1Gbps FDX	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
22	Down	Down	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
23	Down	Down	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
24	Down	Down	1Gbps FDX	X	X	<input type="checkbox"/>	10056	
25	1Gfdx	1Gfdx	Auto	X	X	<input type="checkbox"/>	10056	Discard
26	1Gfdx Fiber	1Gbps FDX	Auto	X	X	<input type="checkbox"/>	10056	Discard

Figure 6: Disable unused ports by default

3. Save the startup configuration. In order to do this, connect to the UI of T1 switch, and select Switch 1 → Maintenance → Configuration → Save startup-config (See Figure 7).

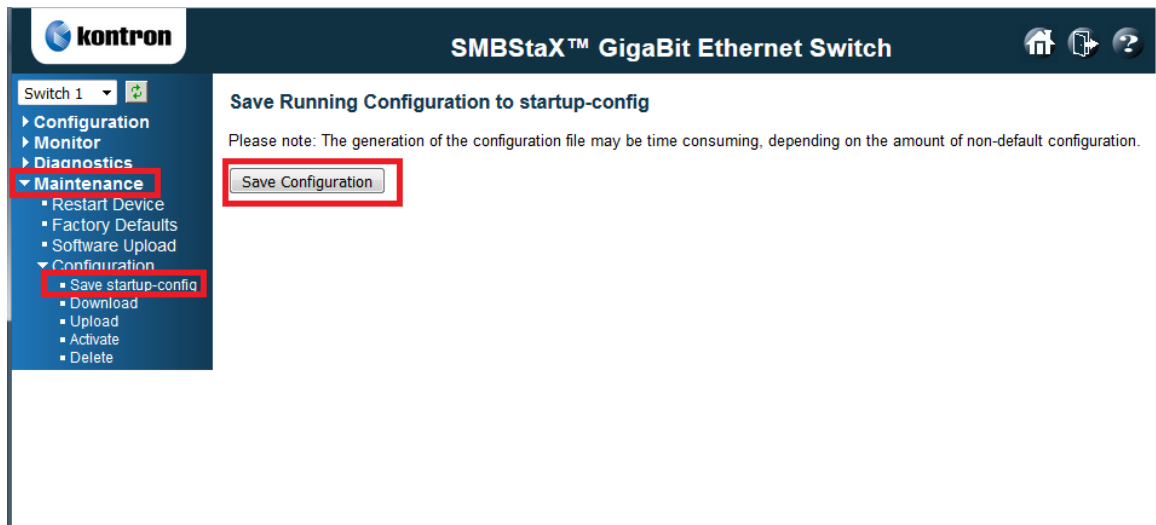


Figure 7: Network Configuration at the end of the installation on Server 2.

### 2.2.6 Static Interface connection

At the end of installation, each blade will have a bonded network interface named bond0.3000, configured with the class “A” static address “10.0.Y.1XX”, mask “255.255.0.0”. Where “XX” will be the last two digits of the blade serial number and “Y” will be 1 for Server 1 or 2 for Server 2. Note that “3000” is the management vlan of a server. You have to connect a cable in the port 3 of the switch, in order to access this vlan.

---

**NOTE:** Note that a network interface named bond0.4093 exists but is not activated by default. It can be activated if needed.

---

All other network interfaces won't have any IP address configured. See an example in Figure 3.

## Firmware loading procedure - USB – T1]

```
[root@env-4e-123403-1 ~]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN
   link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
   inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
   inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eno2: <BROADCAST,MULTICAST,SLAVE,UP,LOWER_UP> mtu 1500 qdisc mq master bond0 state UP qlen 1000
   link/ether 00:a0:a5:9a:3a:1c brd ff:ff:ff:ff:ff:ff
3: eno3: <NO-CARRIER,BROADCAST,MULTICAST,SLAVE,UP> mtu 1500 qdisc mq master bond0 state DOWN qlen 1000
   link/ether 00:a0:a5:9a:3a:1c brd ff:ff:ff:ff:ff:ff
4: eno1: <BROADCAST,MULTICAST,SLAVE,UP,LOWER_UP> mtu 1500 qdisc mq master bond0 state UP qlen 1000
   link/ether 00:a0:a5:9a:3a:1c brd ff:ff:ff:ff:ff:ff
   inet6 fe80::2a0:a5ff:fe9a:3alc/64 scope link
       valid_lft forever preferred_lft forever
5: bond0: <BROADCAST,MULTICAST,MASTER,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP
   link/ether 00:a0:a5:9a:3a:1c brd ff:ff:ff:ff:ff:ff
   inet6 fe80::2a0:a5ff:fe9a:3alc/64 scope link
       valid_lft forever preferred_lft forever
6: bond0.3000@bond0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP
   link/ether 00:a0:a5:9a:3a:1c brd ff:ff:ff:ff:ff:ff
   inet 10.0.1.103/16 brd 10.0.255.255 scope global bond0.3000
       valid_lft forever preferred_lft forever
   inet6 fe80::2a0:a5ff:fe9a:3alc/64 scope link
       valid_lft forever preferred_lft forever
```

Figure 8: Network Configuration at the end of the installation on Server 2.

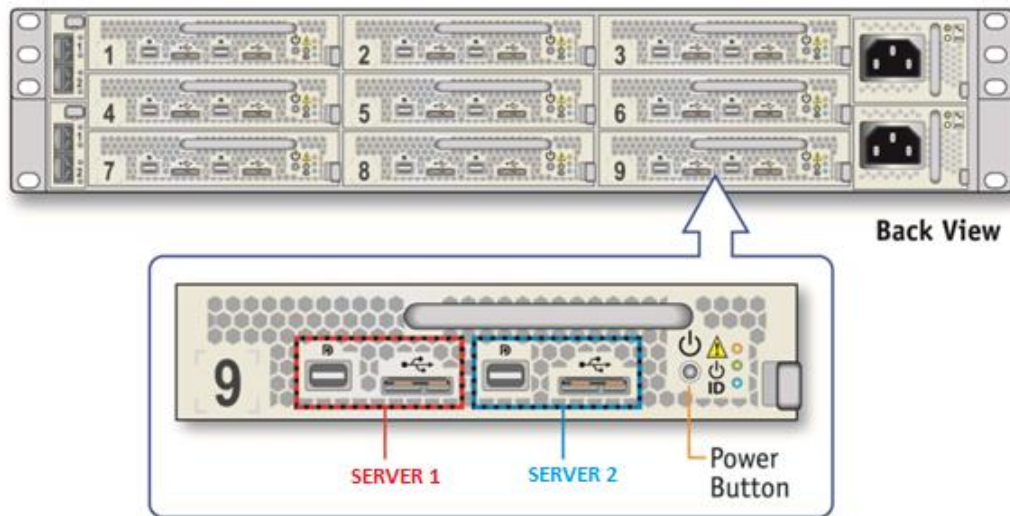


Figure 9: T1 Blades – chassis rear panel.

### 3 Installation media creation

The following files referenced in the ECO are needed to complete this procedure:

- [1] ISO image of the T1 deployment USB key (referenced in the ECO)
- [2] EXE Rufus tool to write the ISO image to the key

The following steps are required to create the USB Media that will be used during the firmware loading procedure.

1. Log on to a desktop PC as administrator.

## Firmware loading procedure - USB – T1]

2. Copy the “T1 deployment image” to the desktop.
3. Copy the rufus-2.8.exe file to the desktop.
4. Plug the target USB Key in the desktop PC.

---

**NOTE:** Verify that you are logged as administrator to complete the following steps.

---

The following steps will completely erase the target USB media.

---

5. Double click on the rufus-2.8.exe file to open it:
6. Rufus started, you can select your language (English)

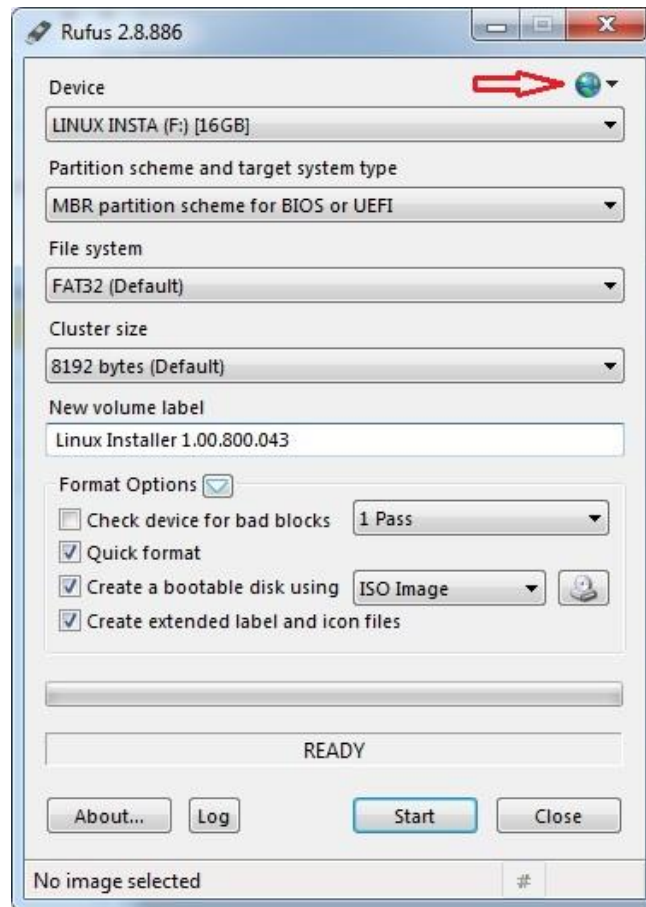


Figure 10: Rufus tool, select your language (English)

7. Browse to the appropriate ISO file using the “Click and select image” button.

Firmware loading procedure - USB – T1]

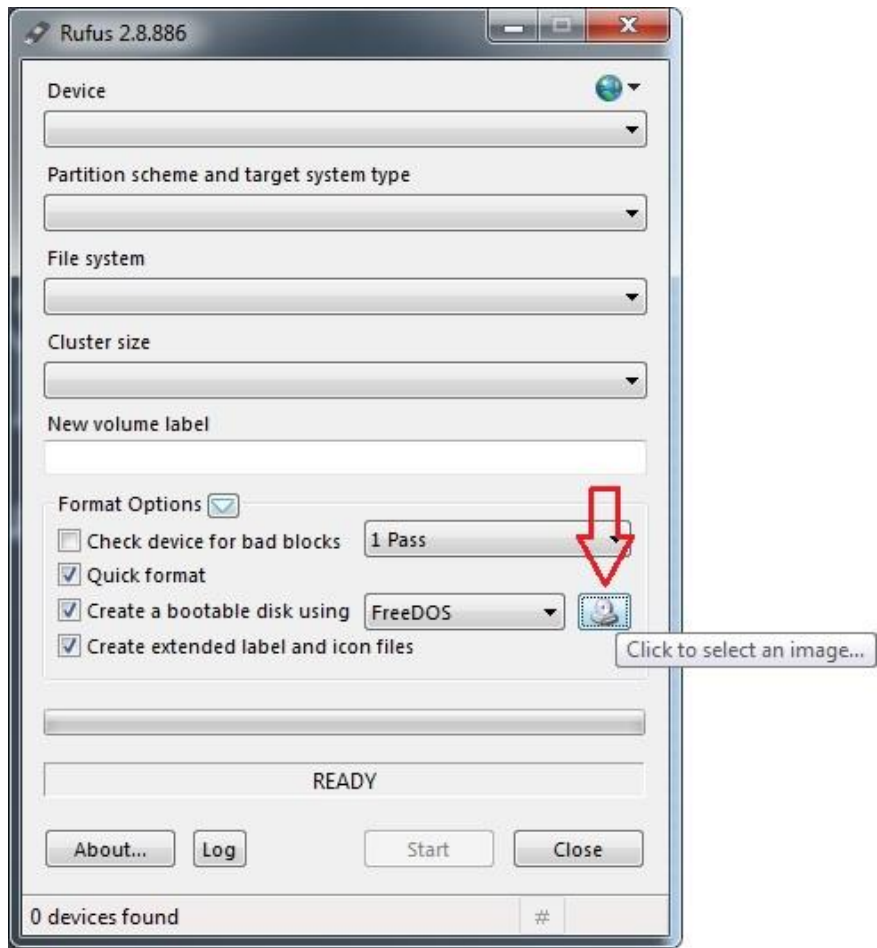


Figure 11: Select image

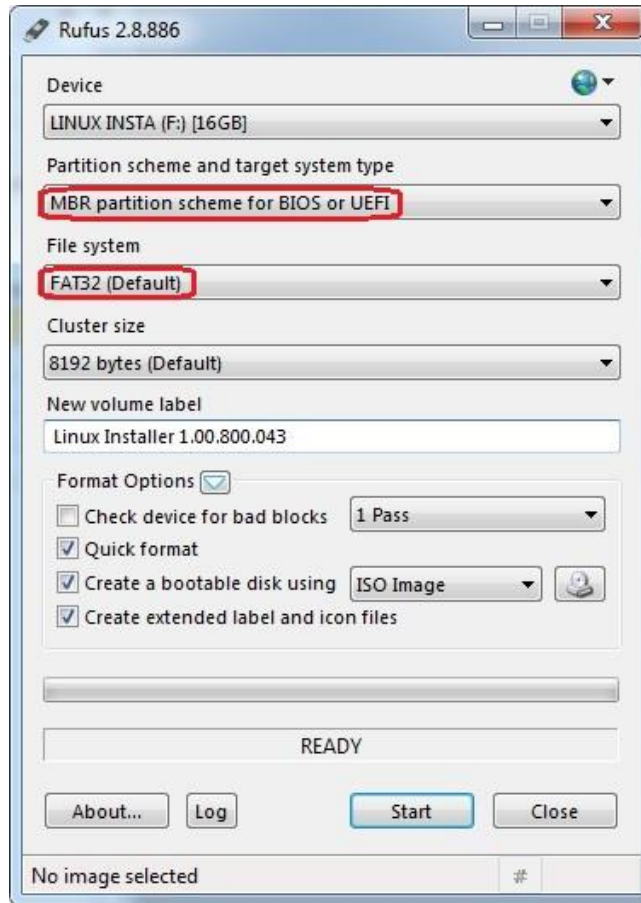


Figure 12: Rufus tool

8. Select the USB key to use as device.
9. Select partition scheme :  
*MBR partition scheme for BIOS or UEFI computers*
10. Select File system :  
*FAT32 (default)*
11. Format option :
  - a. “Check device for bad blocks” check box disable
  - b. “Quick format” check box enable
  - c. “Create a bootable disk using” checkbox enable
  - d. “Create extended label and icon files” checkbox enable



Firmware loading procedure - USB – T1]

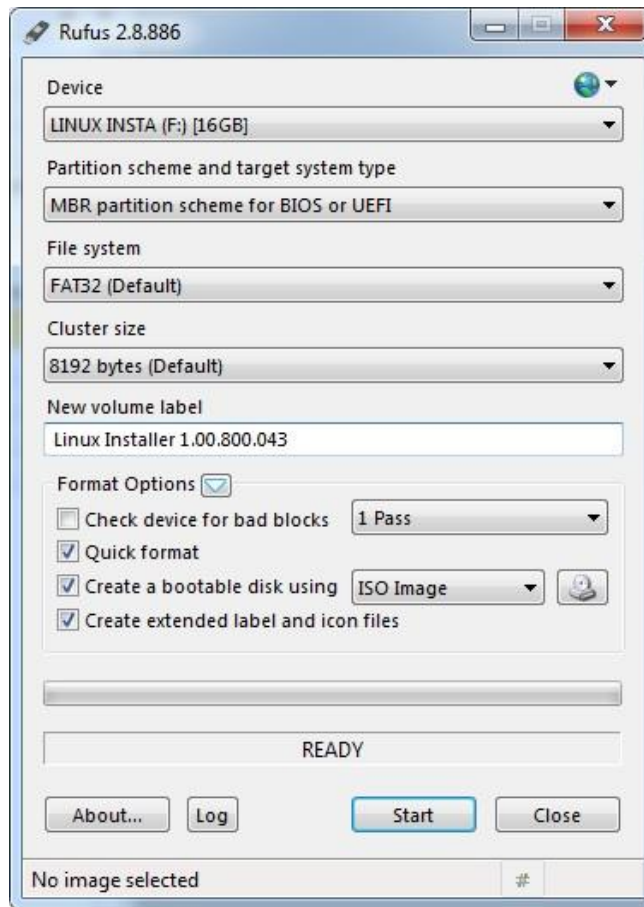


Figure 13: Rufus ready to copy

12. Click on the “Start” button to burn USB Key.
13. The following confirmation message will appear:

Firmware loading procedure - USB – T1]

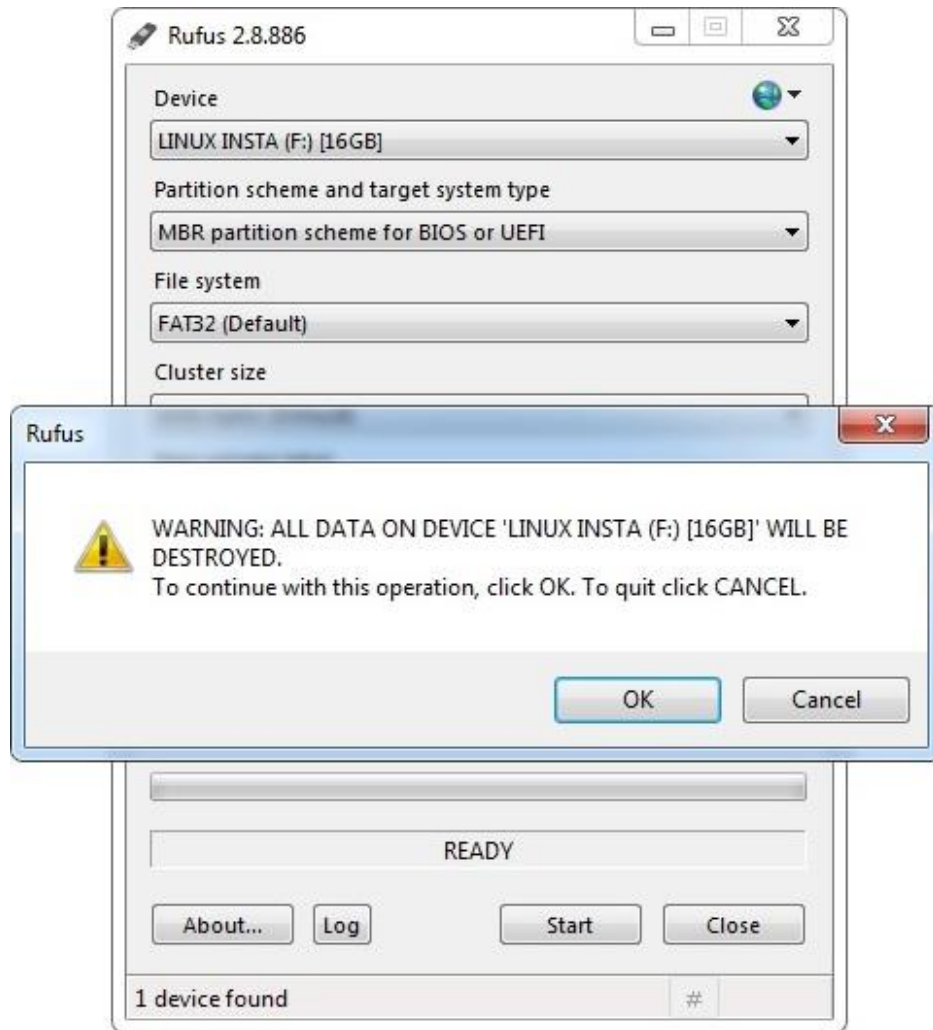


Figure 14: Rufus Confirmation

14. Press “OK” to confirm, process start.
15. The process will take approximately 3 minutes to complete. Overall progress is shown in the image USB UI. Once copy is completed, the following message will appear:

## Firmware loading procedure - USB – T1]

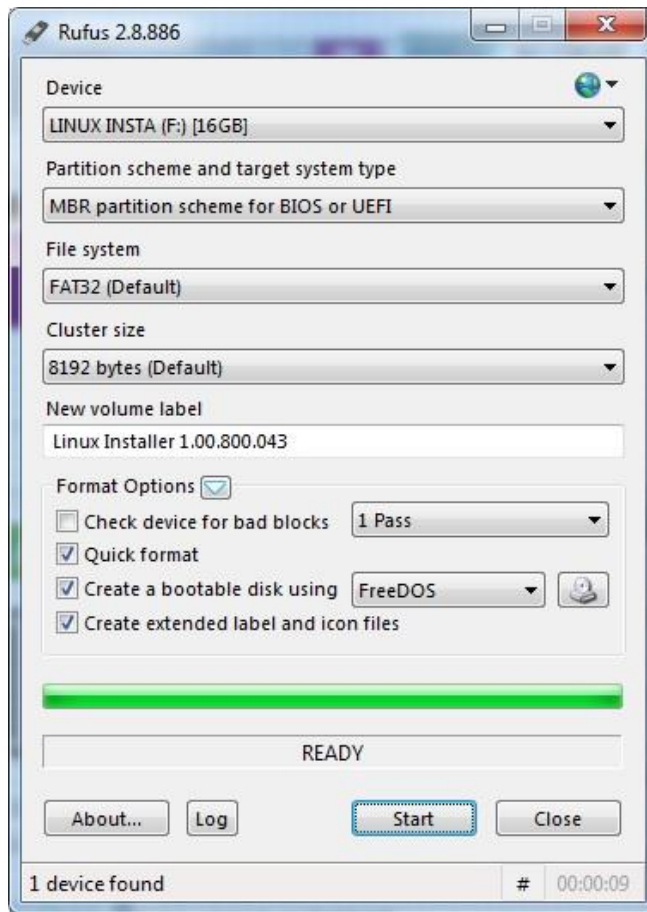


Figure 15: Imaging Done

16. Close the Rufus tool using the “Close” button.
17. Files copied in step 2 and 3 can now be deleted.
18. USB key can now be gracefully ejected by using the “Eject” command in a Windows Explorer.

The USB installation media is now ready to be used in [§3.1](#).

## 4 Installation procedure

### 4.1 Overview

The system configuration is divided in 2 main steps:

- Firmware Settings
- Ericsson Installer

---

**NOTE:** The USB installation media must be connected to the back panel USB port of the target blade until the step asking to remove it is reached.

---

## 4.2 Firmware settings

The following steps must be executed to reset to default the firmware parameters:

1. If not yet plugged, plug power chord.
2. If not yet plugged, plug the USB dongle in the Micro USB 3.0 to USB OTG adapter on the target. See Figure 4 in order to connect to the right blade and the right Server.
3. Startup the system and wait until the following menu is displayed:



Figure 16: BIOS startup

4. Press “DEL” or “F2” and wait until you enter the BIOS setup
5. Go to the Menu “Save & Exit” and Select item “Restore Defaults”. Press “YES” to confirm

Firmware loading procedure - USB – T1]

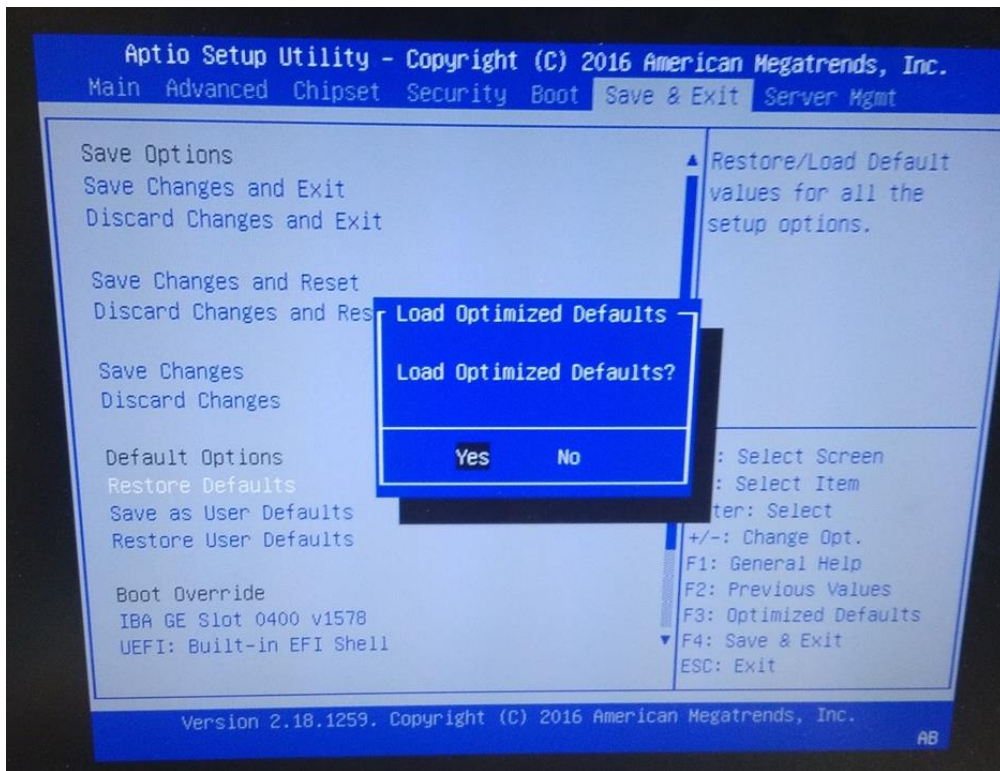


Figure 17: Load Default Values

6. Return on Main Menu and change System Date and Time (UTC).

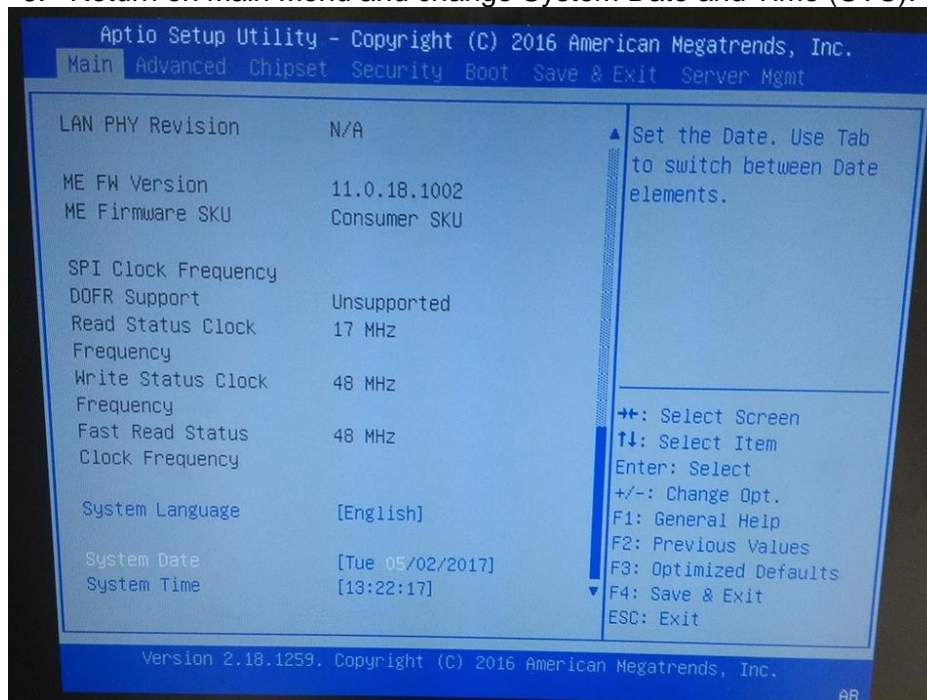


Figure 18: BIOS Main menu for System Date and Time

## Firmware loading procedure - USB – T1]

7. Enter in Boot Menu and select item “Dual Option #1” : Set USB Key

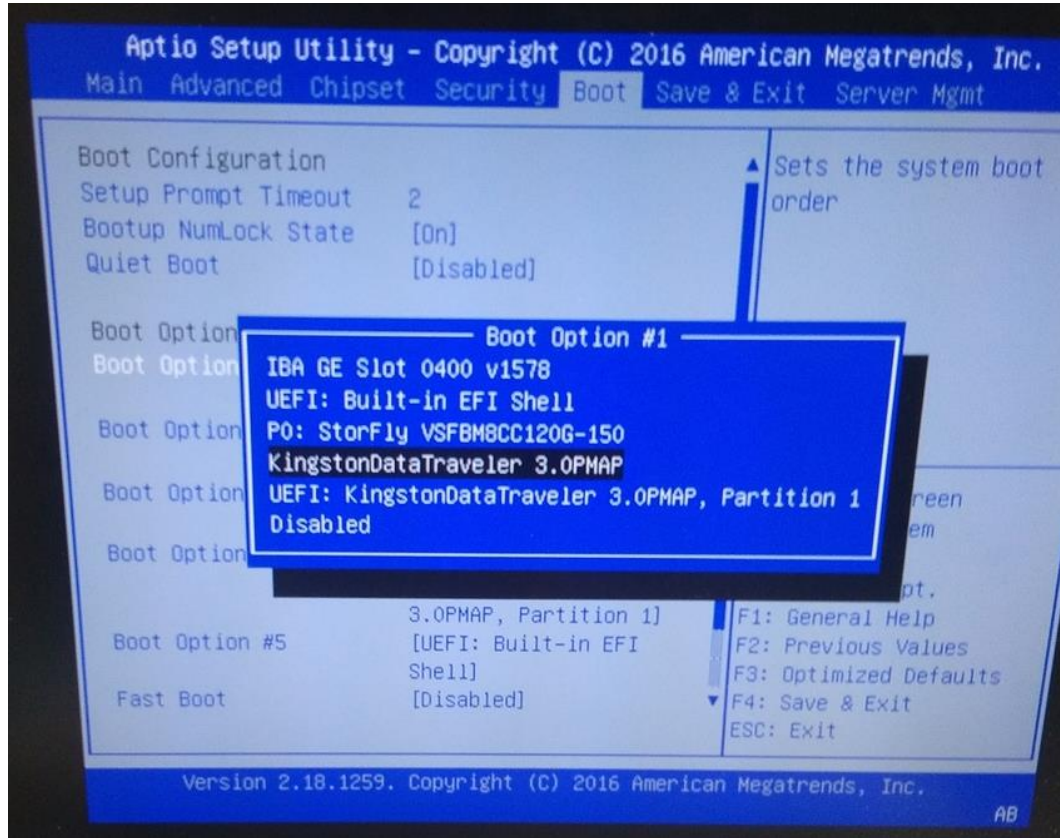


Figure 19: USB key first in boot order

8. Select item “Dual Boot Order #2” : Set P0
9. Return to “Save & Exit” Menu and select “Save Changes and Reset”. Press “YES” to confirm

### 4.3 Ericsson Installer

The procedure starts with the target rebooting after Firmware settings.

1. If not yet plugged, plug the USB dongle to one of the USB ports of the target and reapply firmware setting of [§ 3.2](#)

---

**NOTE:** The USB installation media must be connected at all time in USB port of the target platform until the step asking to remove it is reached.

---

2. The deployment will start by displaying the following menu:

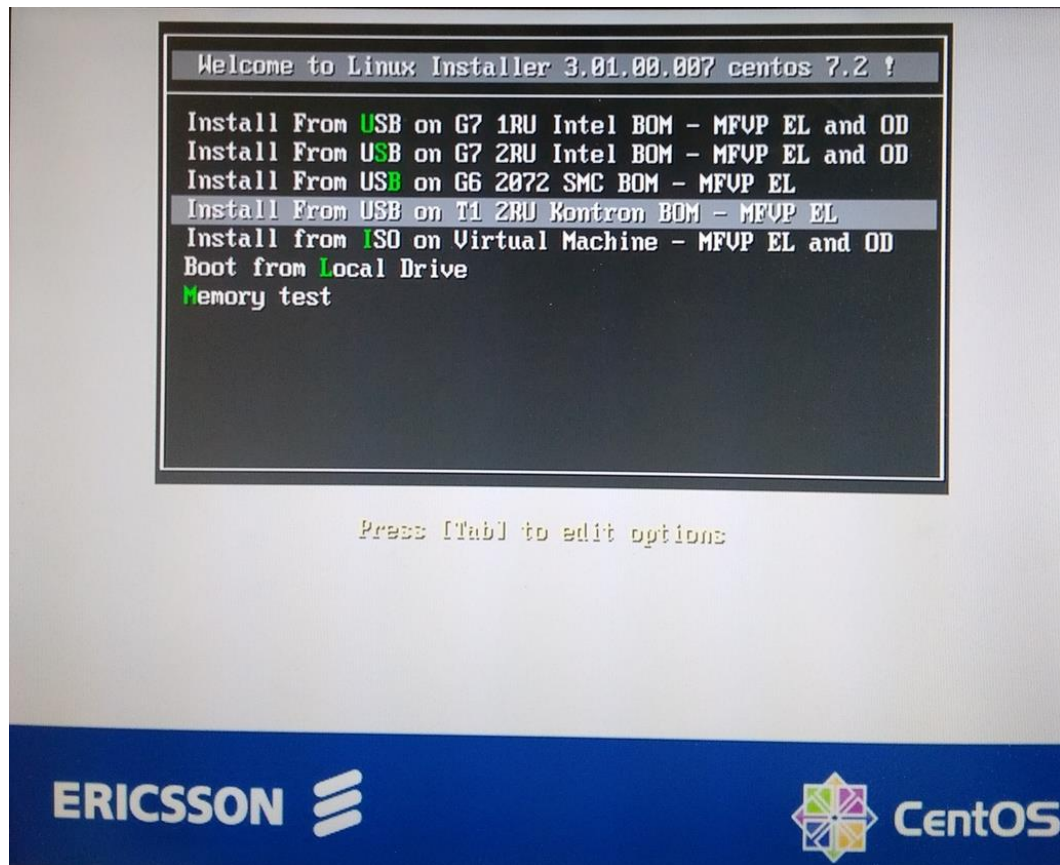


Figure 20: Ericsson menu, Select “Install From USB on T1 2RU Konton BOM”

3. Select “Install From USB on T1 2RU Konton BOM – MFVP EL” with keyboard and press enter.
4. Wait for several seconds until the target begin install.
5. Enter the Serial Number; press the “Enter” key.

---

Note: The serial number is the same for both Server 1 and Server 2 of a blade

---

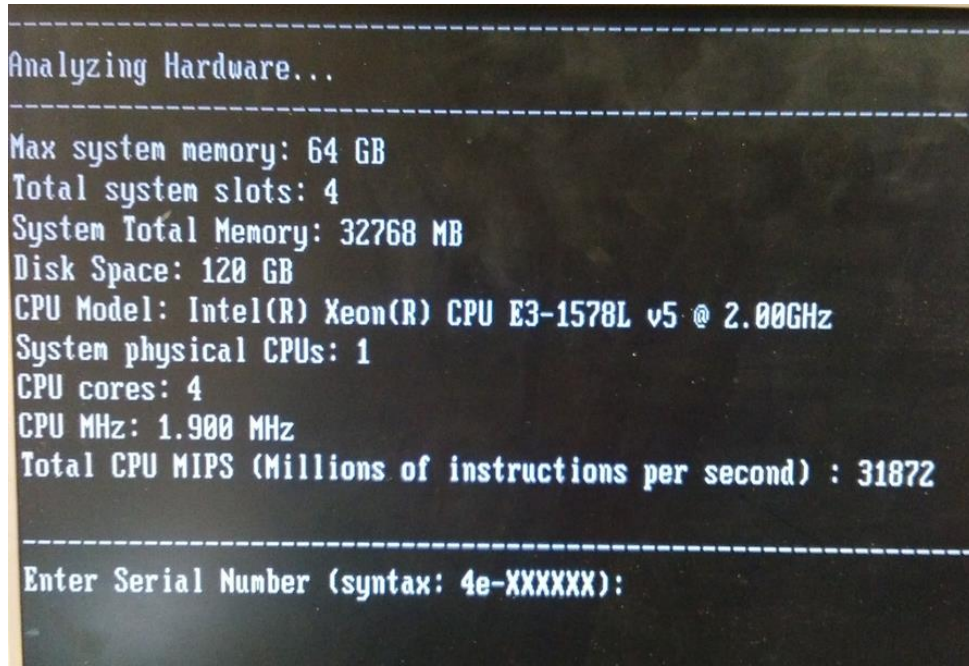


Figure 21: Enter Serial number

6. Enter the Part Number and then press the “Enter” key.

---

CAUTION: Please refer to the part number according to the opportunity with the BOM revision number. If the P/N is not accurate, the STP will fail.

---

Example of Part Number: 99-00307-XS-03

---

Note : <, >, |, &, ^ characters are forbidden.

---

7. At this step, Automatic install starts, it takes 10 minutes.



## Firmware loading procedure - USB – T1]

```
08:22:26 Not asking for UNC because we don't have a network
Starting automated install.....
Generating updated storage configuration
Checking storage configuration...
You have not specified a swap partition. Although not strictly required in all
cases, it will significantly improve performance for most installations.
=====
Installation

1) [x] Language settings                2) [x] Timezone settings
   (English (United States))           (US/Pacific timezone)
3) [x] Software selection                4) [x] Installation source
   (Custom software selected)          (Local media)
5) [x] Network settings                 6) [x] Install Destination
   (Not connected)                     (Warning checking storage confi
7) [x] Kdump                             guration)
   (Kdump is enabled)                  8) [x] Create user
                                       (No user will be created)
=====
Progress
Setting up the installation environment
_
anaconda1 1:main* 2:shell 3:log 4:storage-log 5:program-log
```

Figure 22: OS Deploy starting

```
Installing : perl-podlators-2.5.1-3.el7.noarch 52/197
Installing : perl-Pod-Perldoc-3.20-4.el7.noarch 53/197
Installing : 1:perl-Pod-Escapes-1.04-285.el7.noarch 54/197
Installing : perl-Text-ParseWords-3.29-4.el7.noarch 55/197
Installing : perl-Encode-2.51-7.el7.x86_64 56/197
Installing : perl-Pod-Usage-1.63-3.el7.noarch 57/197
Installing : 4:perl-macros-5.16.3-285.el7.x86_64 58/197
Installing : 4:perl-libs-5.16.3-285.el7.x86_64 59/197
Installing : perl-threads-1.87-4.el7.x86_64 60/197
Installing : perl-Storable-2.45-3.el7.x86_64 61/197
Installing : perl-Carp-1.26-244.el7.noarch 62/197
Installing : 4:perl-Time-HiRes-1.9725-3.el7.x86_64 63/197
Installing : perl-Exporter-5.68-3.el7.noarch 64/197
Installing : perl-Time-Local-1.2300-2.el7.noarch 65/197
Installing : perl-constant-1.27-2.el7.noarch 66/197
Installing : perl-Socket-2.010-3.el7.x86_64 67/197
Installing : perl-threads-shared-1.43-6.el7.x86_64 68/197
Installing : perl-File-Temp-0.23.01-3.el7.noarch 69/197
Installing : perl-File-Path-2.09-2.el7.noarch 70/197
Installing : perl-PathTools-3.40-5.el7.x86_64 71/197
Installing : perl-Scalar-List-Utils-1.27-248.el7.x86_64 72/197
Installing : perl-Filter-1.49-3.el7.x86_64 73/197
Installing : 1:perl-Pod-Simple-3.28-4.el7.noarch 74/197
Installing : perl-Getopt-Long-2.40-2.el7.noarch 75/197
Installing : 4:perl-5.16.3-285.el7.x86_ [#####] 76/197
```

Figure 23: OS Deploy finished

## Firmware loading procedure - USB – T1]

```
Unmounting /mnt/MEDIA...
Unmounting RPC Pipe File System...
Unmounting /run/install/repo...
Stopping Configure read-only root support...
[ OK ] Stopped Configure read-only root support.
[ OK ] Stopped Load/Save Random Seed.
[ OK ] Unmounted /mnt/sysimage/sys.
[ OK ] Unmounted /mnt/sysimage/proc.
[ OK ] Unmounted /mnt/sysimage/dev.
[ OK ] Unmounted /mnt/sysimage/opt.
[ OK ] Unmounted /mnt/sysimage/var.
[ OK ] Unmounted /variables.
[ OK ] Unmounted /mnt/MEDIA.
[ OK ] Unmounted RPC Pipe File System.
[ OK ] Failed unmounting /run/install/repo.
Unmounting /mnt/sysimage...
[ OK ] Unmounted /tmp/factory.
Unmounting Temporary Directory...
[ OK ] Unmounted Temporary Directory.
[ OK ] Unmounted /mnt/sysimage.
[ OK ] Reached target Unmount All Filesystems.
[ OK ] Stopped target Local File Systems (Pre).
Stopping Remount Root and Kernel File Systems...
[ OK ] Stopped Remount Root and Kernel File Systems.
```

Figure 24: System rebooting

8. You can now remove USB key.
9. The Ericsson Menu is displayed. In this case, don't touch the keyboard and the system will automatically boot on the Hard Disk.

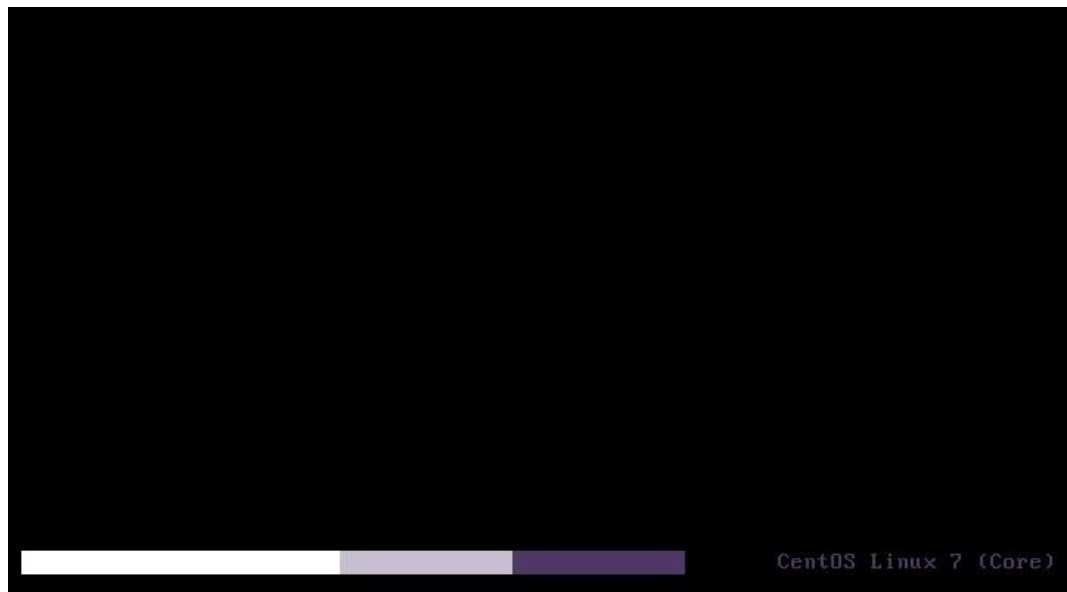


Figure 25: System is starting

10. Wait until the target asks login :

Firmware loading procedure - USB – T1]

- a. Set login “root”
- b. Set password “3nvivio\_!”

```
CentOS Linux 7 (Core)
Kernel 3.10.0-327.el7.x86_64 on an x86_64

env-4e-123403-1 login:
```

Figure 26: root log in

11. To check the success of your installation, you can access the Web Page <http://10.0.1.1xx/support> if you are installing Server 1 or <http://10.0.2.1xx/support> if you are installing Server 2 (where “XX” will be the last two digits of the blade serial number). Then generate and download a support package.
12. You can now proceed to the next steps as mentioned into the SSP document.