Baseband Integration – Onsite Procedure

Revision - C

For Software Release(s): 16B,17.Q1,17.Q2,17A

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NRO Deployment Document (NDD)

8/1543-1/LZA 905 5680

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General Information

Purpose

This NDD contains the Baseband Integration steps performed onsite while locally connected to the LMT port of the node. It applies to Baseband 5216/5212. Baseband. The steps in this document can be used for both Greenfield Baseband deployments and Baseband Migration from DUx.This NDD is valid for Baseband nodes that are managed by either an OSS-RC or an ENM OAM platform. The onsite portion of the integration is the same regardless of the OAM platform being used.

This document does not cover the integration process using Smart Laptop USB or the smart phone EASi application. For integration using the Smart Laptop USB please use **Baseband Integration - Smart Laptop USB User Guide** and for integration using the smart phone EASi application please use **Baseband Integration - EASi User Guide**.

For Baseband (5212/5216) physical installation, please refer to **Baseband 5212/5216 Installation Procedure**.

Intended Audience

- Onsite Field Technician

Change Request Process

If you have comments or corrections for this document, please click the **Suggest a Change** button below the section you wish to update.

Overview

Overview of Activity

This overview is provided as a high level look at sequences and processes covered by this document. This section does not contain any commands and is not intended to be executed.

This document covers the following onsite integration options:

- **Zero Touch Integration:**

In the case of Zero Touch Auto Integration, the onsite field technician only needs to perform the baseband physical installation and cabling. Once powered up, the node will automatically attempt to establish communication with the OAM server and perform automatic integration. Please note that backhaul transport needs to be functioning properly in order for the Zero Touch integration to occur.

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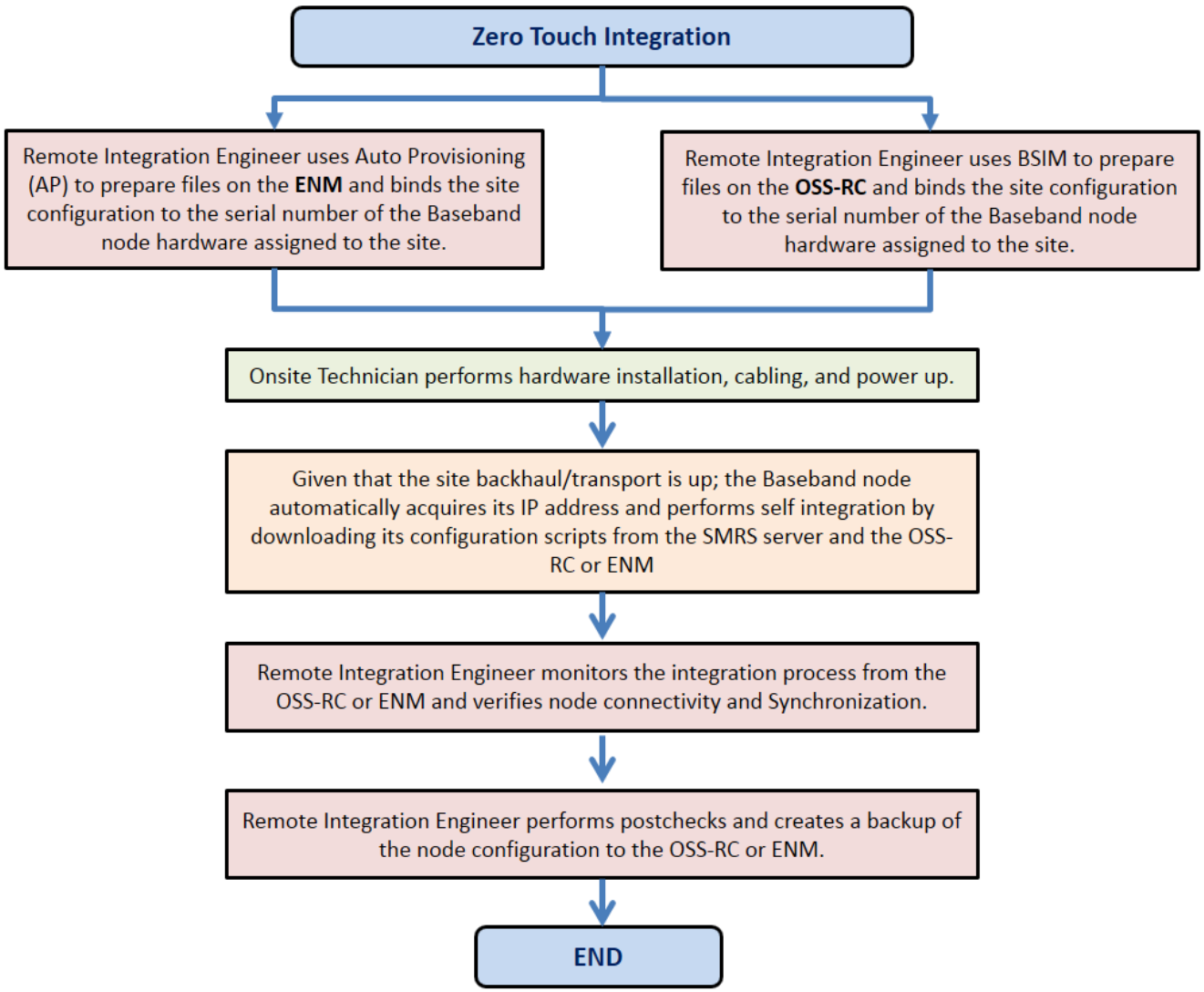

- **LMT Integration:**

This option allows the onsite field technician to use a "SiteInstallation.xml" file to perform the node integration. This site installation file contains the information that the Baseband needs to reach the remote SMRS (Software Management Repository Services) server. The Baseband requires a functioning backhaul connection that will allow it to reach the SMRS server and perform the integration automatically.

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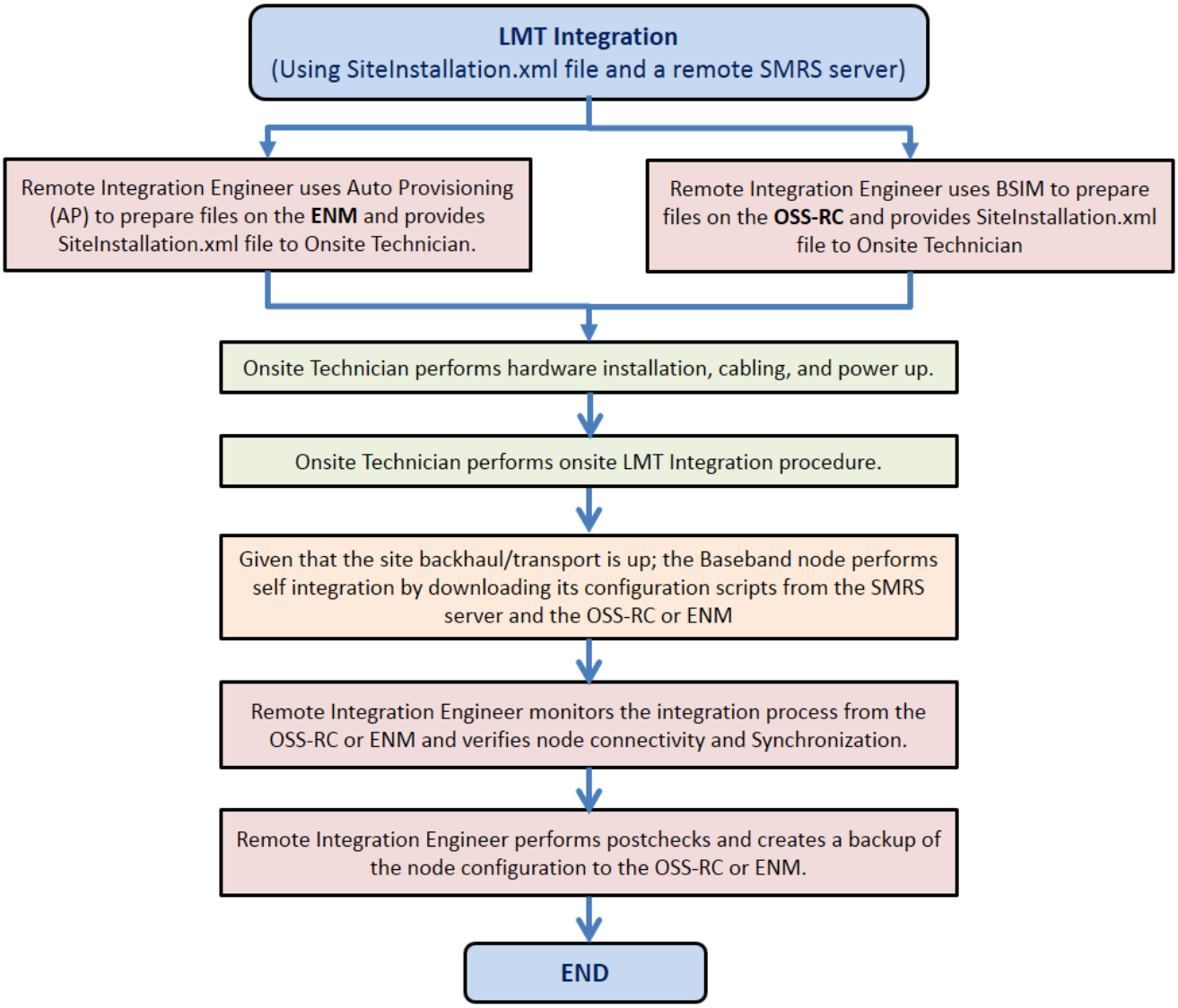

- **LMT Integration, OnSite Configuration:**

This option allows the onsite field technician to download the Site_Basic, Site_Equipment, License file (LKF), and software Upgrade Package from his laptop to the Baseband node onsite. The rest of the integration, which involves the application of TN/RN and post installation scripts, is performed remotely from the OSS-RC or the ENM.

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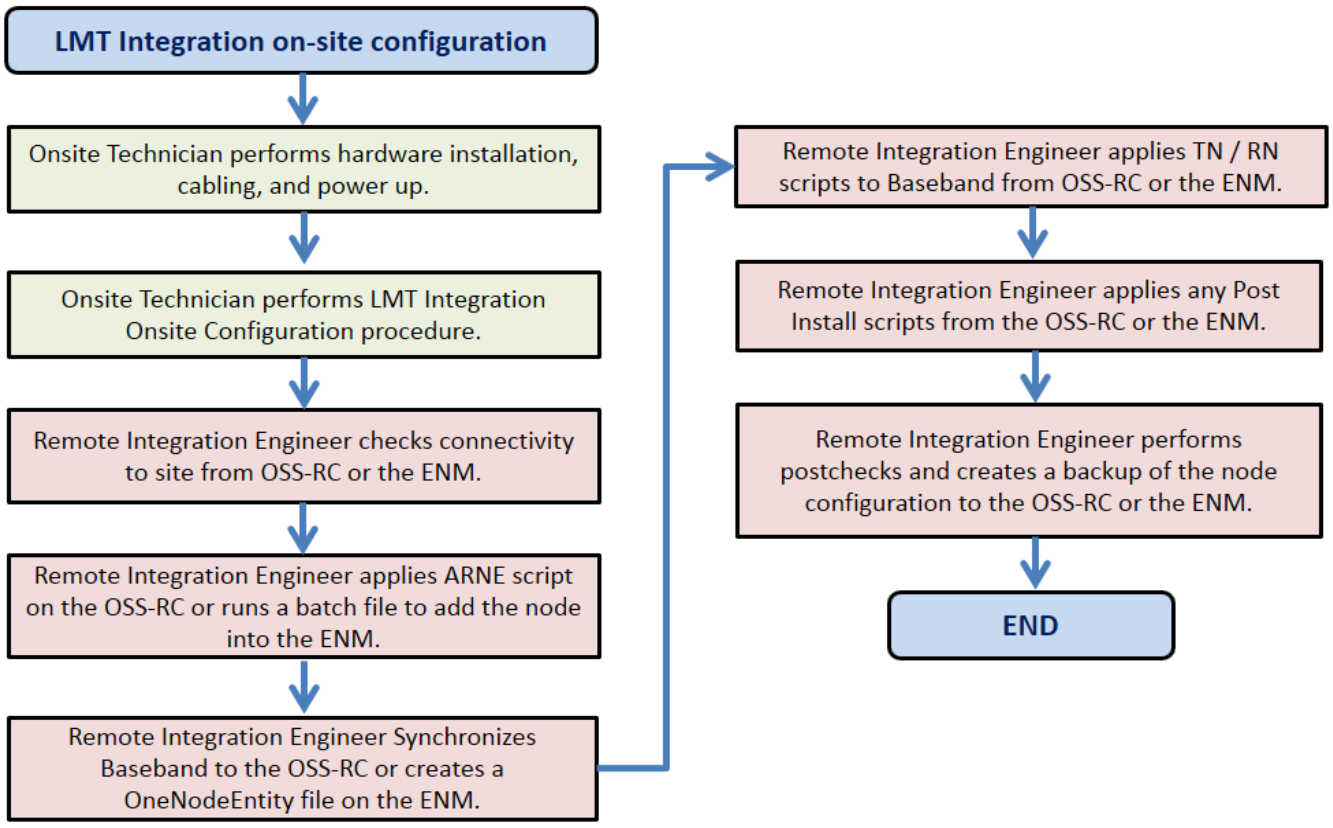

Initial Conditions

- In case of a migration (hardware upgrade), the existing G1 node needs to be functional and alarm free.
- A new Baseband node is available.
- The local Ericsson engineering team will provide the network configuration scripts to be loaded on site. A list of these files can be found in the procedures sections of this document.

Post Conditions

- This NDD covers several integration scenarios. Depending on which integration option is being performed, the node will need either additional configuration files to be applied from the OAM server or it will be ready for postchecks to be performed by the remote integration team.

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Services Inclusions, Exclusions, and Assumptions

Assumptions

This document assumes all equipment is currently in proper working order and is either alarm free or the customer is aware of any known issues and has made Ericsson and all stakeholders associated with the execution of this document aware of the known alarms/issues.

Service Impacts

In case of a DUx migration to Baseband, all traffic on the DUx will be down approximately 30 minutes before the new Baseband module can take new calls. This procedure should be performed during a low traffic period as a precautionary measure. All service impacting work should be completed 30 minutes prior to end of maintenance window.

Note: Cell downtime is 30 minutes or less if the time is counted between lock cell to unlock cell, and not between first script to last script. Lock cell is the time when the last DUx node EUtranCellFDD is locked. And unlock is the time when the first Baseband EUtranCellFDD is unlocked

Coordination

The following users are involved in the integration process:

Field Technician

- Performs all activities on-site.

Remote Integration Engineer

- Plans the node integration and preforms all necessary actions on the OSS-RC or ENM.

OMC Technician

- Monitors the network from an Operation and Maintenance Center (OMC).

Deliverables and Responsibilities

Responsible Party	Responsibility
Customer	Site Access
	Passwords
	Equipment/Material
	Customer owned Node changes

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	Customer required or provided documents or equipment (site drawings, special safety requirements, etc)
Ericsson	Network Engineering will provide scripts as required
	The NIC will update the node as required. All work will be done remotely
	Network Integration will perform all configuration services defined in this MOP
	Ericsson will complete physical installation
	Project Management will ensure Ericsson teams complete work, stay on schedule and co-ordinate with customer PMs
Third Party	Prerequisites or activities that will be executed by a third party

Prerequisites and Dependencies

Prerequisites:

- Configurations and preparations are made in the Operations Support System for Radio and Core (OSS-RC) or the Ericsson Network Management (ENM) server before deploying the node.
- Review all documents or references prior to performing this NDD.

Dependencies:

- Transmission network from the site to the core network must be up and running.

Equipment Identification

Below are pictures of a DUS and Baseband units. Some of the ports have been relocated on the newer unit. Sufficient slack in existing cables is required or new cable must be run. The port effected the most is the GPS port (renamed SYNC.) It has been relocated from the far right to the far left. TNB and TNC have also been physically moved to the left.

DUS 41 01

Baseband (5212/5216)

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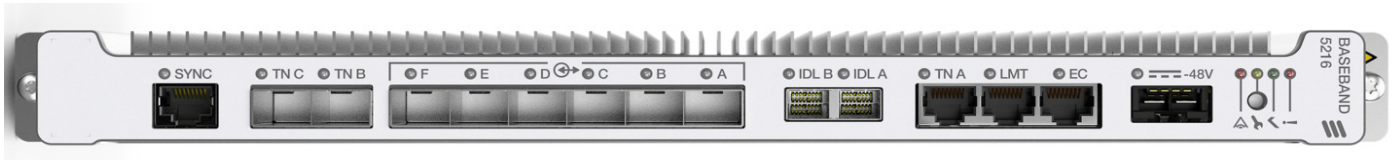
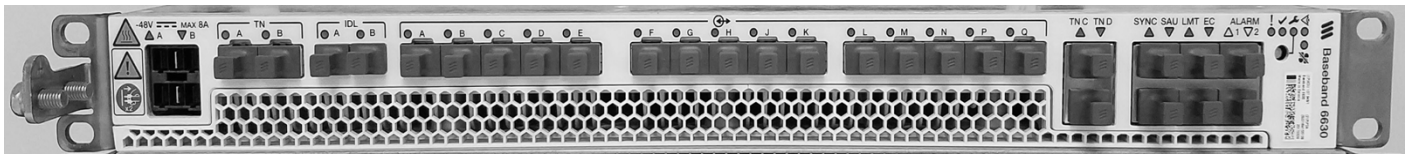
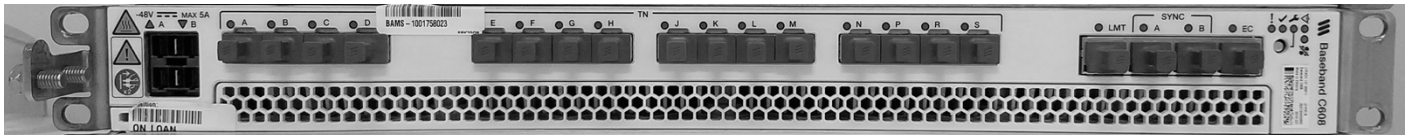


Baseband (6620/6630)



Baseband (C608)



Entrance Criteria

For Greenfield

- All Scripts, software loads, and licenses are available on the on-site technicians laptop.
- Baseband Hardware is available.
- All required configuration files are available on the OSS-RC or ENM platform.

For Migration

- Customer has confirmed that sufficient slack is available on the existing cables to accommodate the location of the ports on the Baseband unit. If sufficient slack is not available, new cables should be installed prior to any service affecting activities.
- Customer has a complete backup of the DUx configuration in case a fallback is necessary.
- All items listed under Greenfield above.

Exit Criteria

Baseband is ready for remote integration team to verify connectivity and to perform any post integration activities that are necessary for that node.

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Terminology

The table below shows a list of some of the old integration methods and their corresponding new names starting in release 16B and onward.

Old Name	New Name
Auto integration without laptop	Zero Touch Integration
Warehouse integration/installation	Zero Touch Integration, off-site pre-configuration
Auto integration with laptop	LMT Integration
Semi-automatic/automated integration	LMT Integration, on-site configuration

Precautions and Preparations

Precautions

Observe the general safety precautions against personal injury and equipment damage outlined in the Safety and Environmental documents listed under Section, “Safety and Environmental Documents”.

Safety and Environmental Documents

Personal Health and Safety Information 124 46-2885

System Safety Information 124 46-2886

Required Documents

NRO Deployment Documentation (NDD) can be found in CMS at prscms.ericsson.net.

Before using this document:

- The user of this document must be proficient in all required safety procedures for the geographic location in which this NDD is being applied.
- In geographic locations requiring accreditation, the document user must have a certification of accreditation on file with his/her company.
- For information related to safety procedures and access to them, the document user will contact his/her safety prime or local Installation or Integration representative.

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Job Preparations

Arrange all materials, tools, and test equipment at the work location so that they are nearby and ready for use.

Tools & Test Sets

The tools and test sets listed in the table below are required to perform the procedures in this document.

Tools & Test Sets	
QTY	**Description**
1	**PC for Integration**

Supplies

The supplies listed in the table below are required to perform the procedures in this document.

Supplies	
QTY	**Description**
1	**Ethernet Cable for communication to Baseband LMT port.**

Software

The Onsite technician must have the following software/hardware and be familiar with it's use.

- PC to be used as local terminal & Ethernet cable
- sFTP Server installed on local terminal (Core FTP mini-Server used in this document)
- Latest Firefox or Chrome web browsers

The configuration files needed depending on the integration method being performed at the site. If performing "LMT Integration on-site configuration", it is necessary to have at least 800 MB free space on the C: drive of the local computer to allow for storage of the Baseband software.

Core FTP mini-sftp server:

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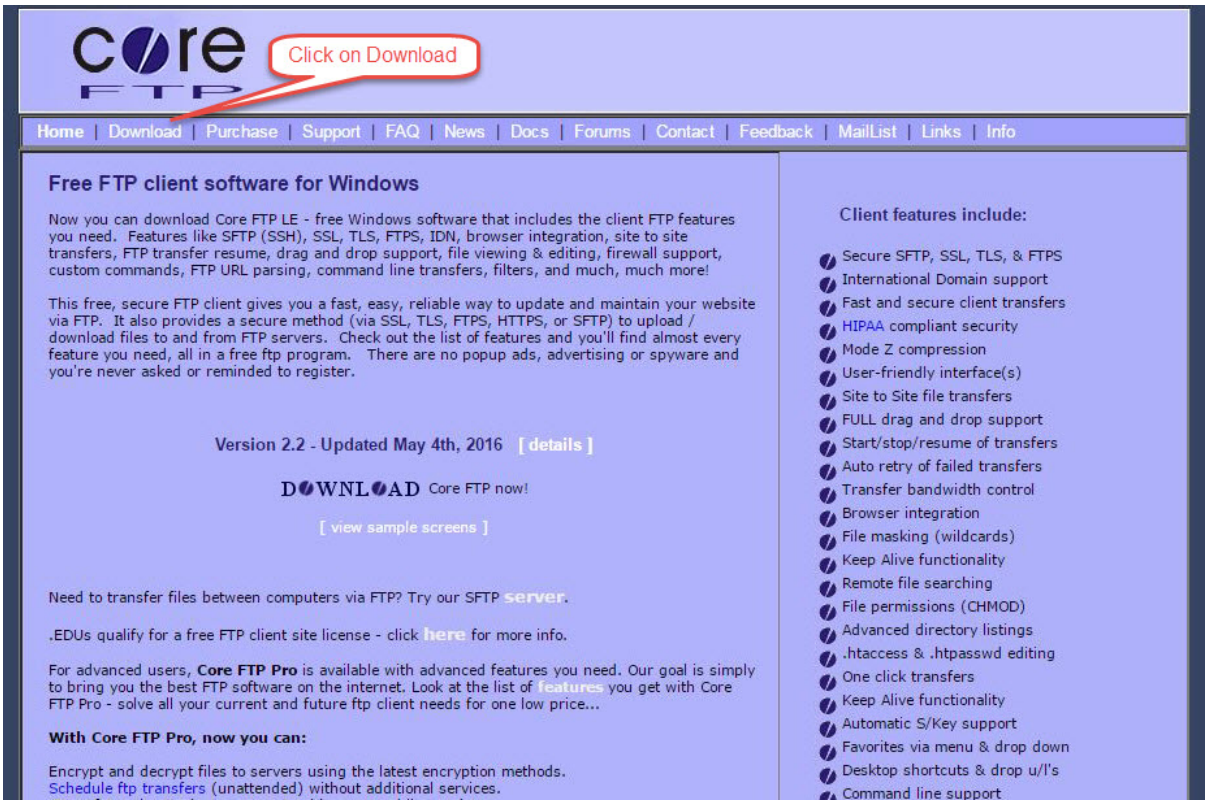
SFTP Server is installed on the technician's PC. The SFTP server is used for storage and transfer of configuration files to the node through the Local Maintenance Terminal (LMT) port

This document refers to Core FTP mini-sftp server. It can be downloaded for free at http://CoreFTP.com



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From the Core FTP Server / SFTP server download page, search for the word "mini", to locate and download the mini version of the software.

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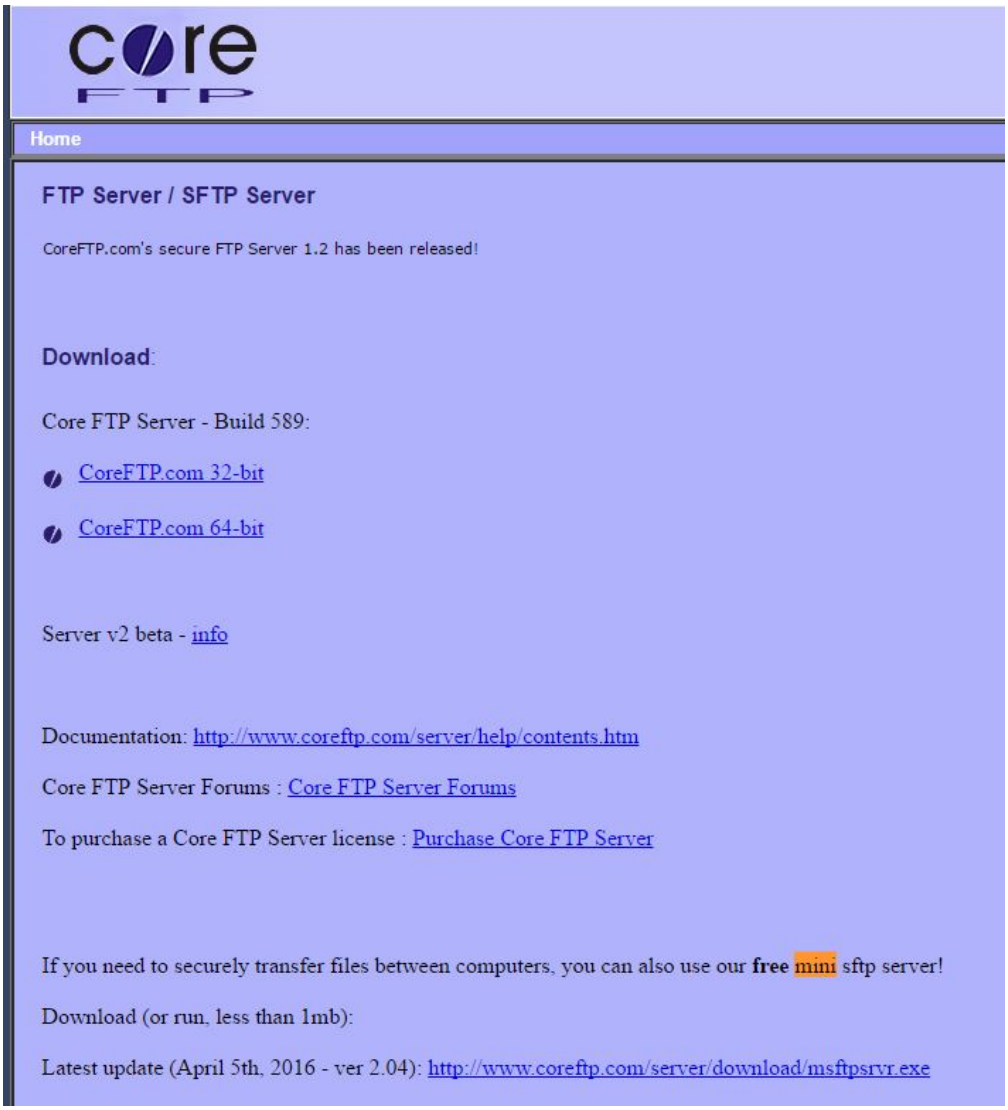

Usernames and Passwords

rbs/rbs is the Baseband local maintenance username and password that is used in this document. Check with you project lead if your region, market, or customer is using a different local maintenance username and password for the Baseband.

Procedures

Integration Files

Below is a list of files used onsite for the different types of integration options:

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Zero Touch Auto Integration

Files provided to the On-Site Technician:

- No files are needed onsite for Zero Touch Auto Integration

LMT Integration Files

Files provided to the On-Site Technician:

- SiteInstallation.xml

LMT Integration On-site Configuration Files

Files provided to the On-Site Technician:

- RbsSummary.xml
- SiteEquipment.xml
- SiteBasic.xml
- OssNodeProtocol.xml
- Software Upgrade Package
- License Key File (LKF)

Connect to Baseband LMT port

Change Local Terminal IP Address

This procedure will change the IP address of the local terminal to allow it to connect to the Baseband.

Change IP Address on Laptop	
Step	**Task/Observation**
1	Connect a standard Ethernet cable from the local terminal to the LMT port of the Baseband.
2	Go to the Start (Windows) Button, and select Search Programs and Files, and type **cmd**
3	Under Programs, **cmd.exe** is listed, right click on it and select **Run as administrator**.

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4	When User Access Control asks, Do you want to allow the following program to make changes to this computer? select **Yes**

5	In the command window that opens type:
	
	For Windows 7:
	`netsh interface ip set address name="Local Area Connection" static 169.254.2.1 255.255.255.0 169.254.2.2`
	
	For Windows 10:
	`netsh interface ip set address name="Ethernet" static 169.254.2.1 255.255.255.0 169.254.2.2`

6	Check that the "Local Area Connection" or "Ethernet" IP address of the computer has been changed.
	
	For Windows 7:
	`netsh int ipv4 show addresses "Local Area Connection"`
	
	For Windows 10:
	`netsh int ip show addresses "Ethernet"`

```
C:\>netsh int ipv4 show addresses "Local Area Connection"

Configuration for interface "Local Area Connection"
    DHCP enabled:                         No
    IP Address:                           169.254.2.1
    Subnet Prefix:                        169.254.2.0/24 (mask 255.255.255.0)
    Default Gateway:                      169.254.2.2
    Gateway Metric:                       1
    InterfaceMetric:                      20
```

```
C:\>netsh int ip show addresses "Ethernet"

Configuration for interface "Ethernet"
    DHCP enabled:                         No
    IP Address:                           169.254.2.1
    Subnet Prefix:                        169.254.2.0/24 (mask 255.255.255.0)
    Default Gateway:                      169.254.2.2
    Gateway Metric:                       1
    InterfaceMetric:                      20
```

LMT Integration (AI with laptop)

This section will cover loading the software, scripts and licenses on the Baseband using a "SiteInstallation.xml" file and a remote SMRS server. This server is setup remotely using either BSIM on the OSS-RC platform or using Auto Provisioning (AP) on the ENM platform OAM server.

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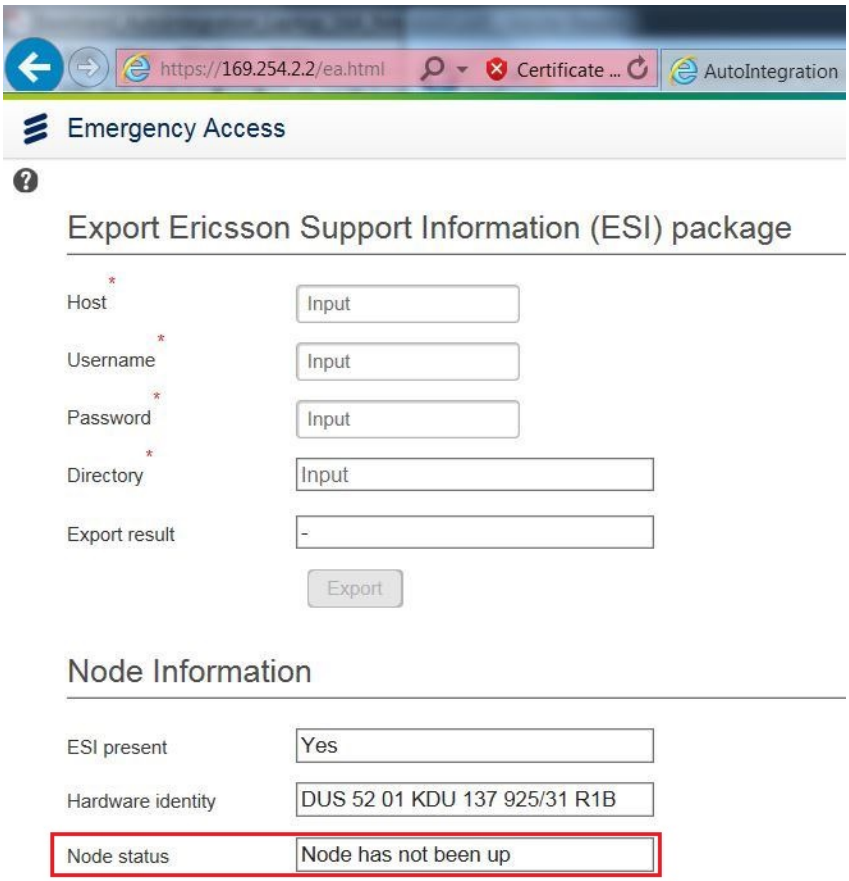
Note: Do not perform this procedure if you already integrated the Baseband using the "LMT, Onsite Integration" procedure.

Baseband LMT Integration (using SMRS Server)	
Step	**Task/Observation**
1	Open a browser and connect to the Baseband Emergency Access window. https://169.254.2.2/ea.html  **Note: Approve the security certificate for this node local web site. The IP address of the LMT port is by default 169.254.2.2.**
2	If the Node status shows "Node has not been up" then skip this step. If Node status shows "Node is working" then click on "Board restore" to clear all existing data from the Baseband.

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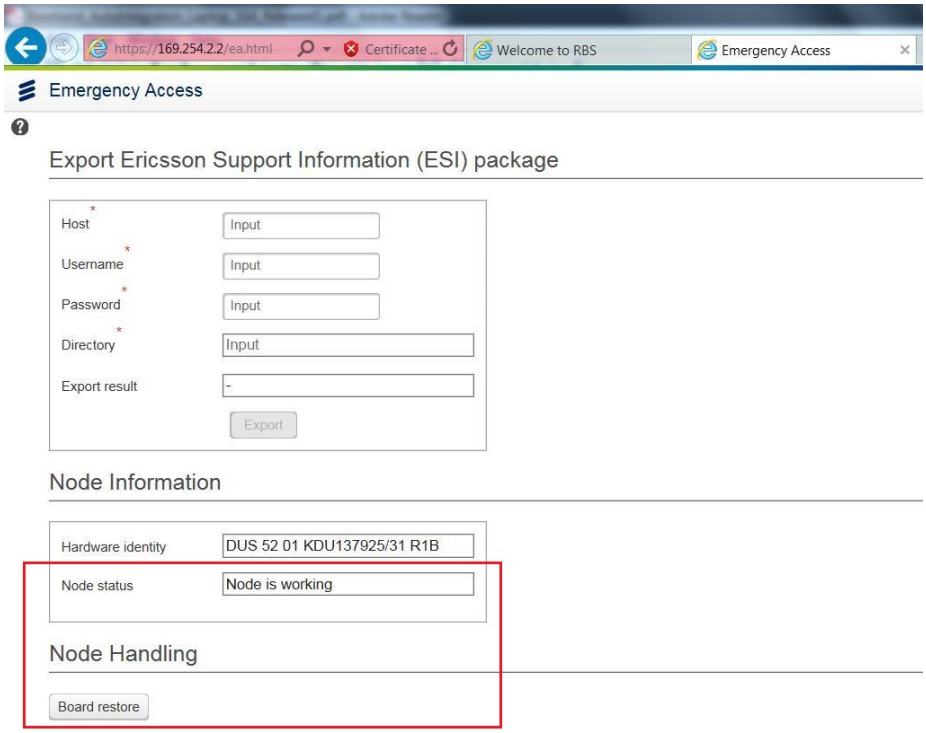

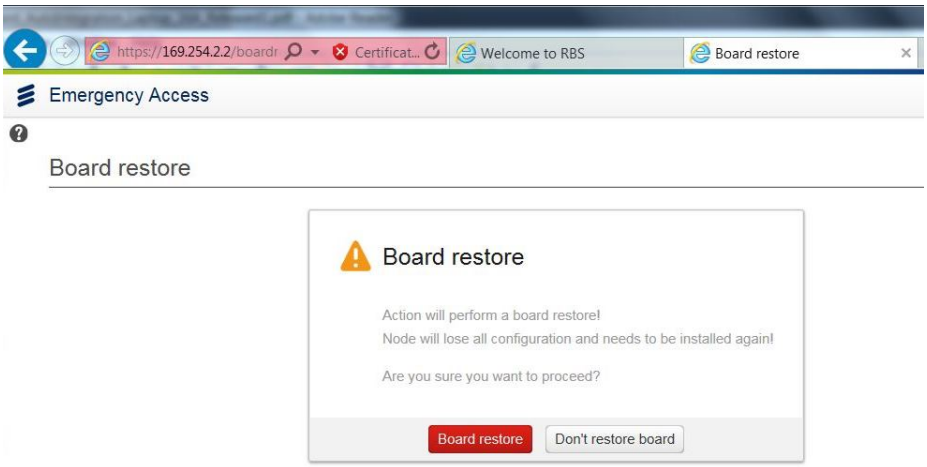

Note: It takes about 5 minutes for the board restore to complete.

3	Open a new browser window and connect to the Baseband LMT IP address. https://169.254.2.2

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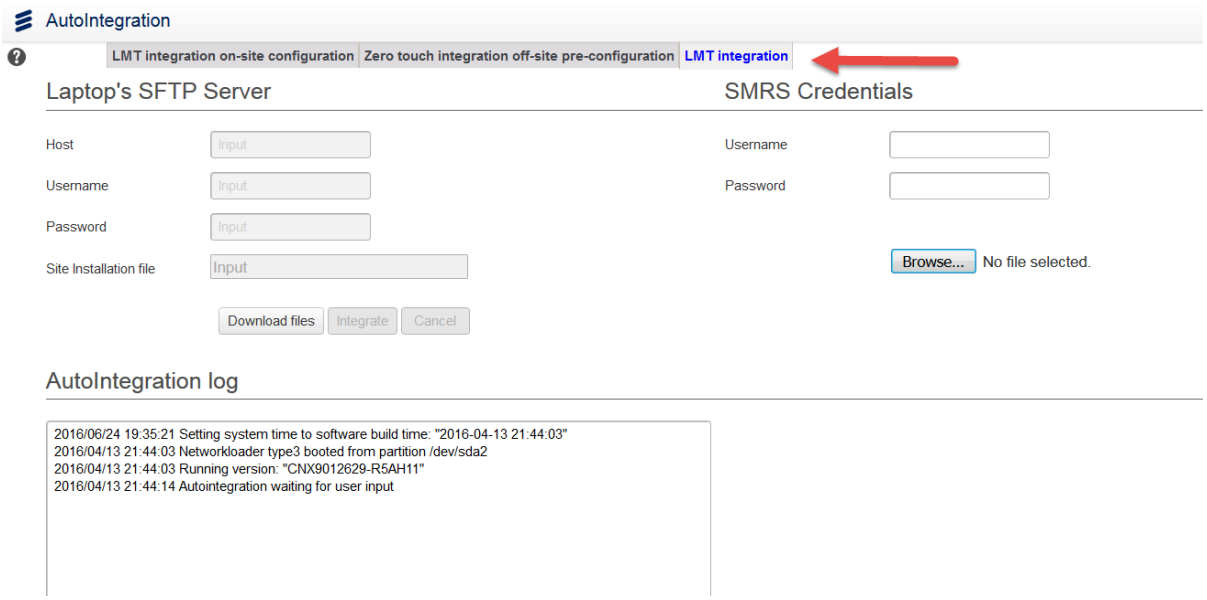
	Verify "LMT integration" tab is selected and is colored in blue **Note: Approve the security certificate for this node local web site. The IP address of the LMT port is by default 169.254.2.2.** 
4	Click "Browse" to open up the windows file explorer window; navigate to the folder where the site configuration files have been saved, and select the SiteInstallation.xml file for your specific site.

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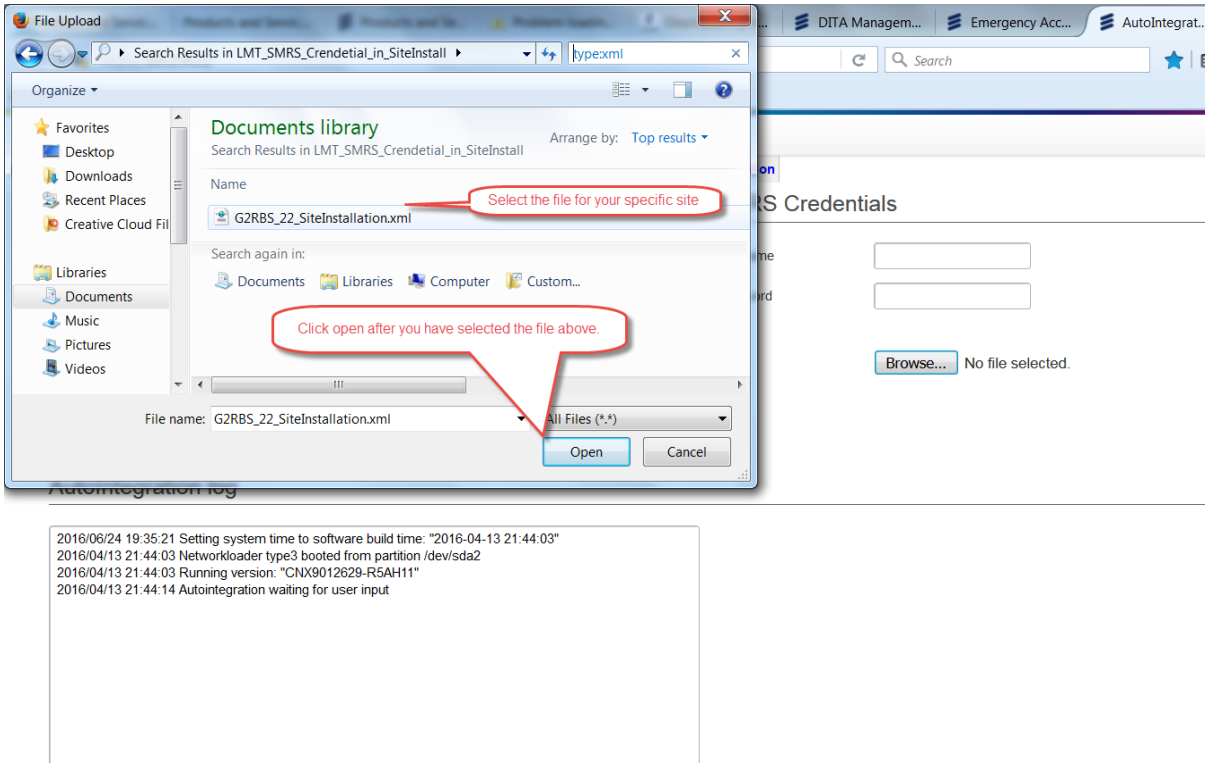

Note: A separate SiteInstallation.xml file is created for each site and may have extra characters in the name

5	Click on the **Download Files** button. The system will start downloading and installing the software. This will take 20 to 40 minutes.

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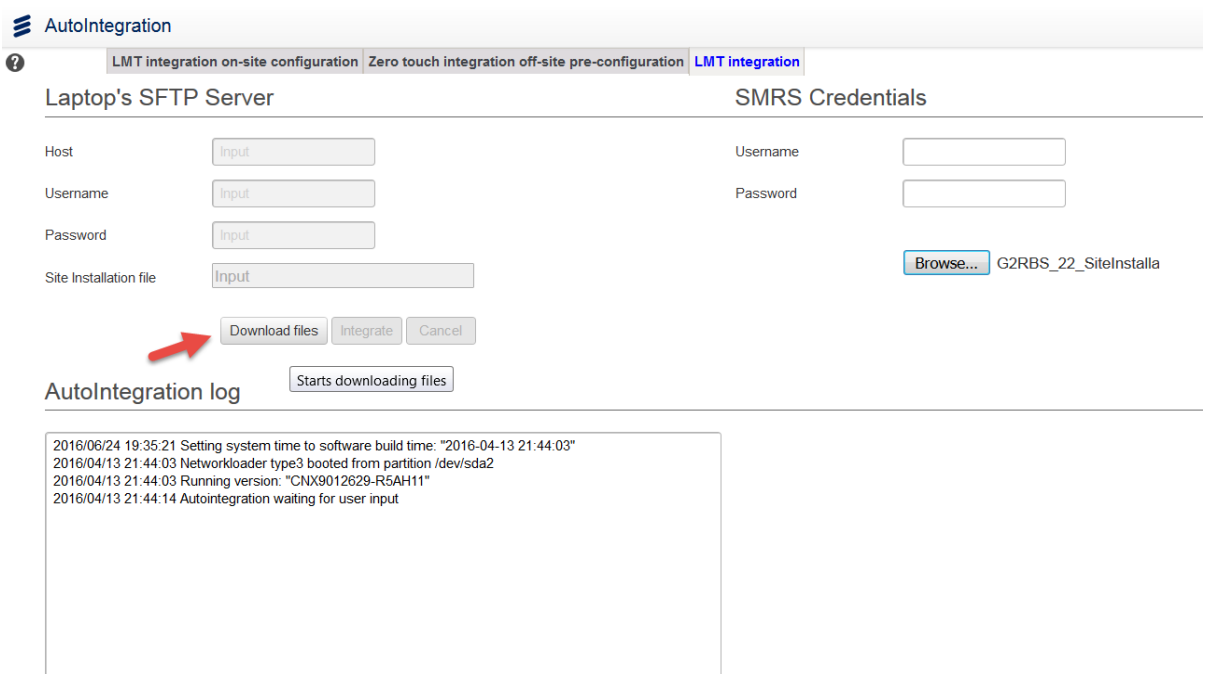

Note: Depending on the content of the SiteInstallation.xml file, it may be necessary to manually input the username and password for the SMRS server in the "SMRS Credentials" fields above. Please contact your next level of support if you encounter an error or have problems connecting to the remote SMRS server.

6	Once the download is complete click on the **Integrate** button.

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	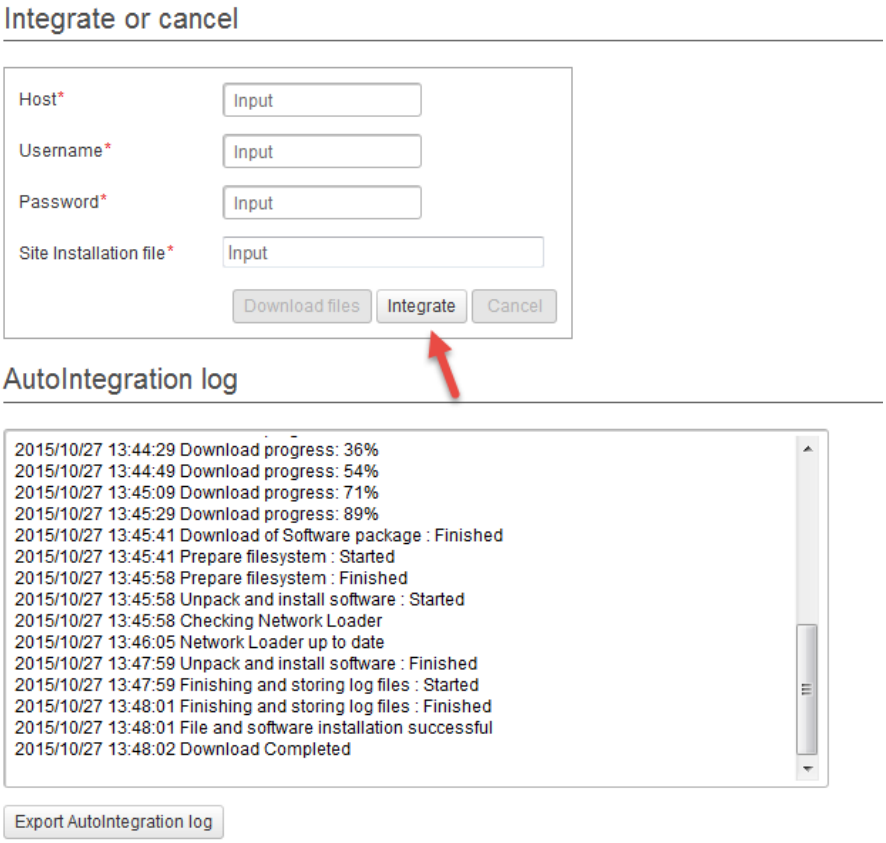 **Note: Contact your next level of support if you encounter any errors during the execution of this procedure.**
7	The system will start integration and reboot.
8	Watch the AutoIntegration log as is displays the following stages. This process can take up to 20 minutes. 2015/10/27 06:30:39 Mgmt set rbsConfigLevel to SITE_CONFIG_COMPLETE 2015/10/27 06:31:42 Mgmt set rbsConfigLevel to OSS_ACTIVATING_CONFIGURATION 2015/10/27 06:32:30 Mgmt set rbsConfigLevel to OSS_CONTROL_NODE_CONN 2015/10/27 06:32:34 Mgmt set rbsConfigLevel to UNLOCKING_CELLS 2015/10/27 06:32:46 Mgmt set rbsConfigLevel to INTEGRATION_COMPLETE 2015/10/27 06:32:50 Mgmt set rbsConfigLevel to READY_FOR_SERVICE **Note: The progress bar at the bottom of the web page should go all the way to 100%.**
9	Check the Emergency Access browser window to ensure the Node Status shows: “Node is working.”
10	Save the AutoIntegration log that is displayed on the web browser window to your PC and give it a name indicative of the site name.

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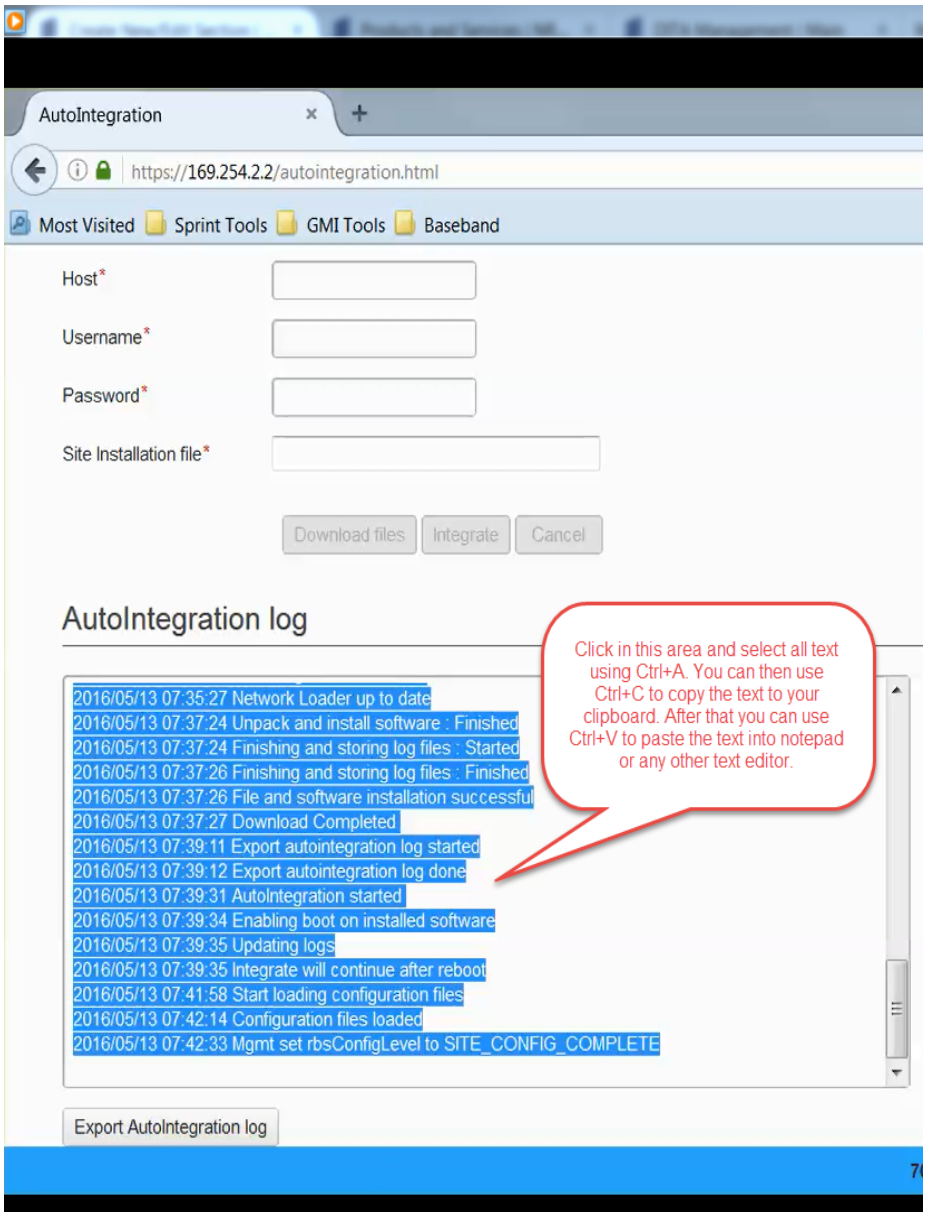
The easiest way to save the log is to click in the log window and select all, then copy and paste the log content into notepad or any other text editor.



You could also click on the "Export AutoIntegration log" button and provide your local laptop IP address, username, password, and filename you would like to give for the log. The web browser will use sftp to send the log file to your PC.

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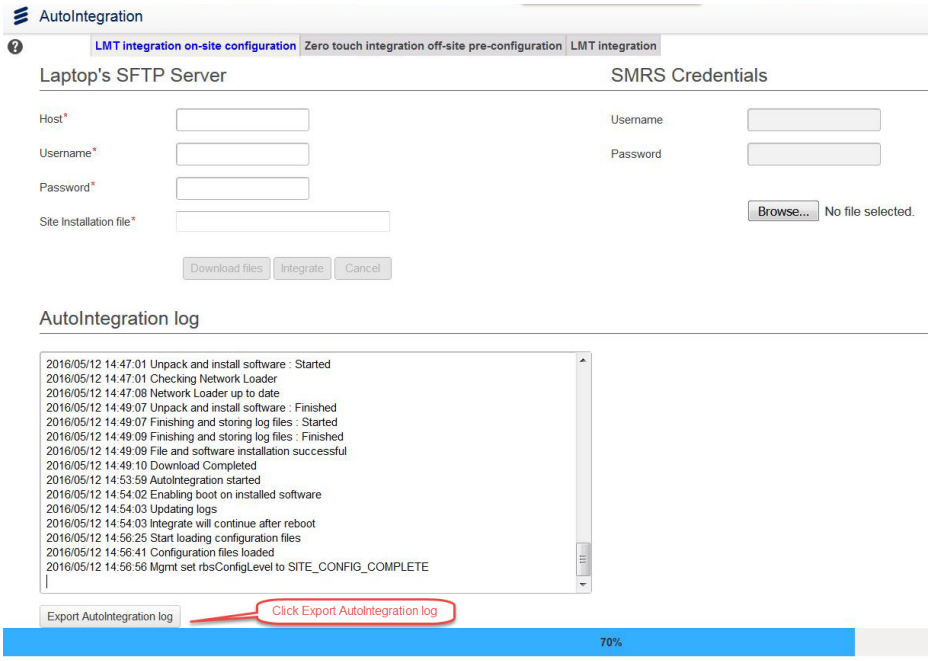

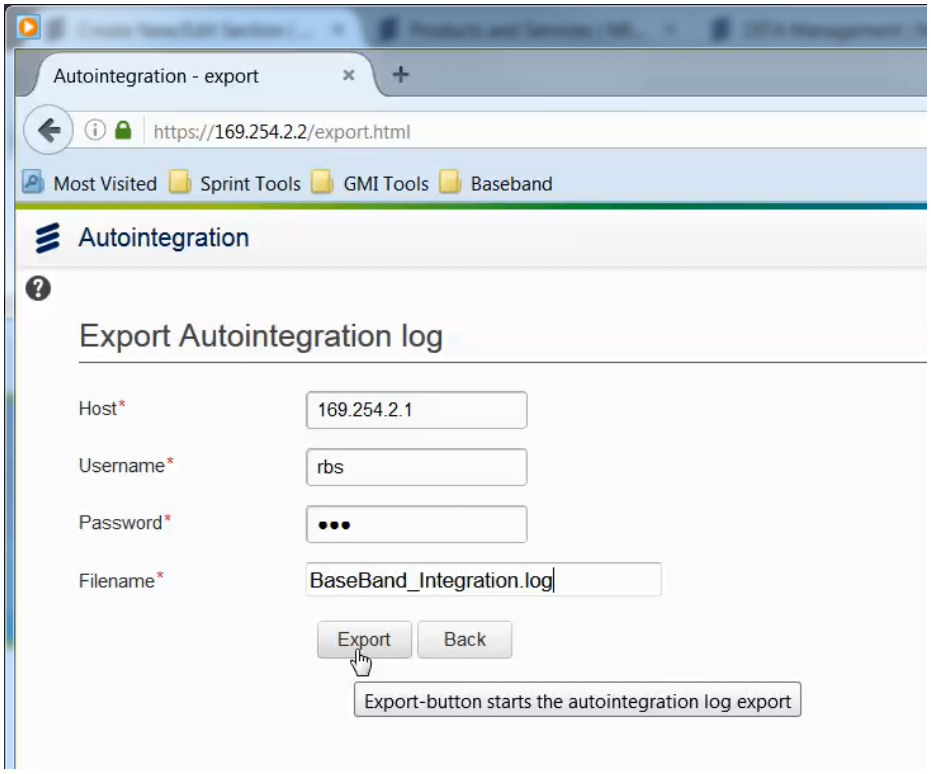

11	Contact the remote integration team and inform them of the completion of the integration process through SMRS server. At this point, the remote integration engineer should verify

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	node status in the OSS-RC or the ENM database, perform post checks, and create a backup.

The following table shows a brief description of the various RBS configuration levels that can be seen in the AutoIntegration log.

RbsConfigLevel Status Description	
rbsConfigLevel	**Description**
SITE_CONFIG_COMPLETE	Site configuration is completed. The node is ready for integration by OSS.
OSS_ACTIVATING_CONFIGURATION	OSS continues with configuration.
OSS_CONTROL_NODE_CONN	OSS activates node conection to the control node.
UNLOCKING_CELLS	Unlocked cells are coming into service.
INTEGRATION_COMPLETE	The node is integrated in a network.
READY_FOR_SERVICE	The node is ready to carry traffic. Integration is complete and operationalState is ENABLED for all configured cells and sectors in the node.
OSS_CONFIGURATION_SUCCESSFUL	The node is successfully configured by OSS.
OSS_CONFIGURATION_FAILED	Node configuration by OSS has failed.
ACTIVATING_FEATURES	All features with valid licenses are activated.
ACTIVATING_FEATURES_FAILED	Not all features with valid licenses installed are correctly activated.
OSS_CONTROL_NODE_CONN_FAILED	Node connection to control node failed.
UNLOCKING_CELLS_FAILED	One or more cells failed to unlock.
RAN_INTEGRATION_WAS_CANCELLED	AutoIntegration was cancelled but the ME is still manageable from OSS.

LMT Integration Onsite Configuration

The section below covers Baseband integration using the "LMT Integration on-site configuration" tab in the Network Loader Web User Interface. The onsite technician will need to disable any potential firewalls software and enable sftp server software on the PC connected to the Baseband in preparation for this method of integration. Using the LMT onsite integration option, the onsite technician will be able to load the software Upgrade Package, the Site Basic & Site Equipment scripts, and the LKF license files to the Baseband locally from his connected laptop PC.

The onsite portion of the Baseband integration can be performed without having a functional backhaul at that time. However, backhaul transport will be required to complete the remote integration process from the OSS-RC or ENM server.

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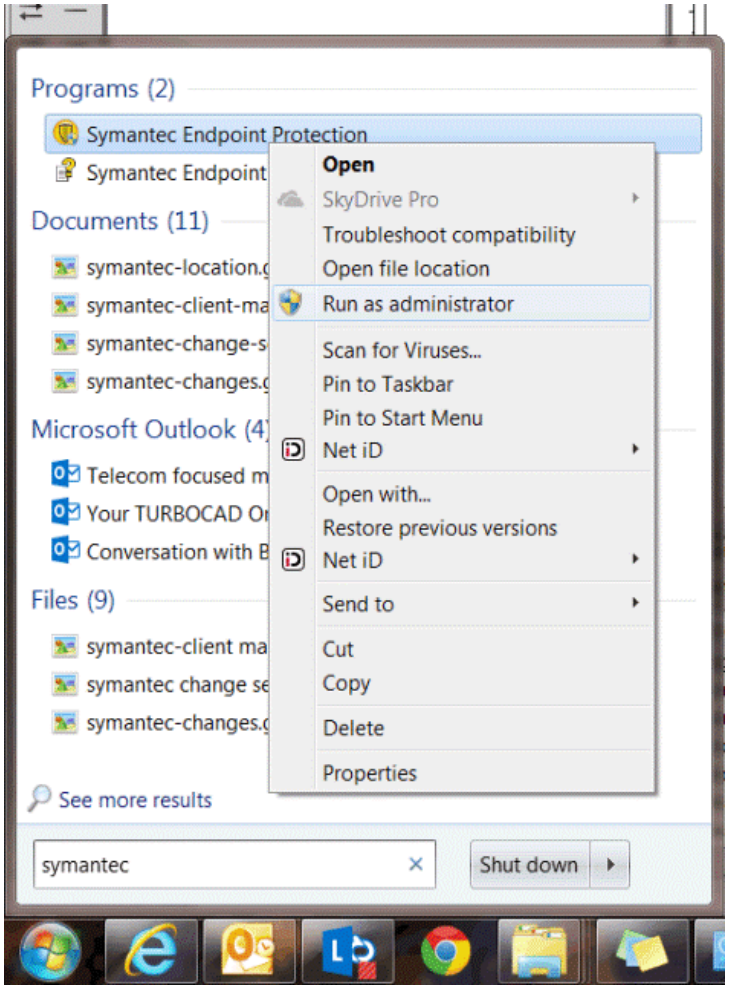
Note: Do not perform this procedure if you already integrated the Baseband using the previous "LMT Integration" procedure.

Disable Firewall

This procedure will disable the Symantec firewall on an Ericsson computer when it is not connected to an Ericsson network.

Disable Symantec Firewall	
Step	**Task/Observation**
1	Go to the Start (Windows) Button, and select Search Programs and Files, and type **Symantec.**
2	Right click on Symantec Endpoint Protection and choose **Run as Administrator**. 

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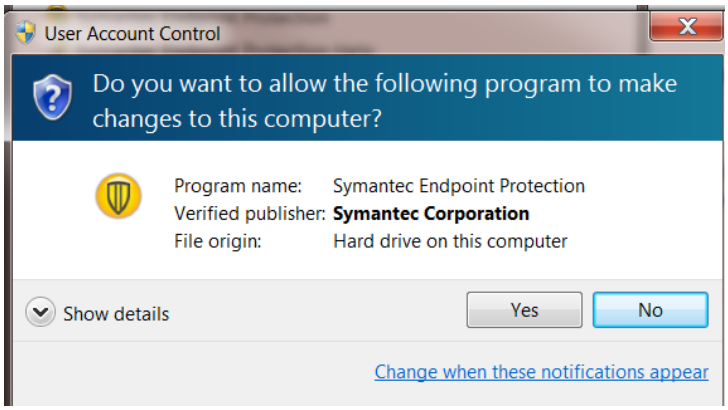
3	When the message pops up asking if you want the program to make changes to your computer, click **yes**. 
4	Click Change Settings. 
5	Next to Client Management click - **Configure Settings.**

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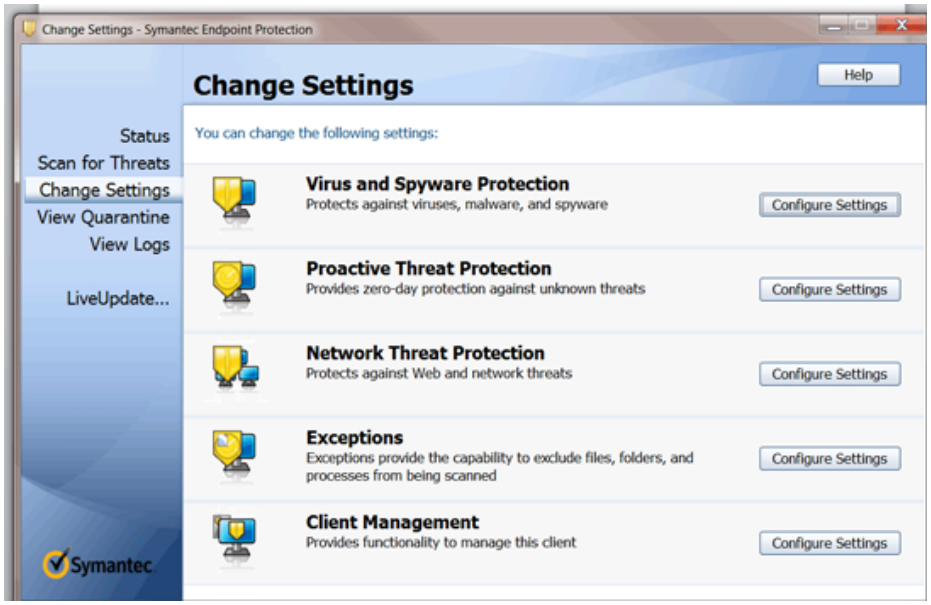
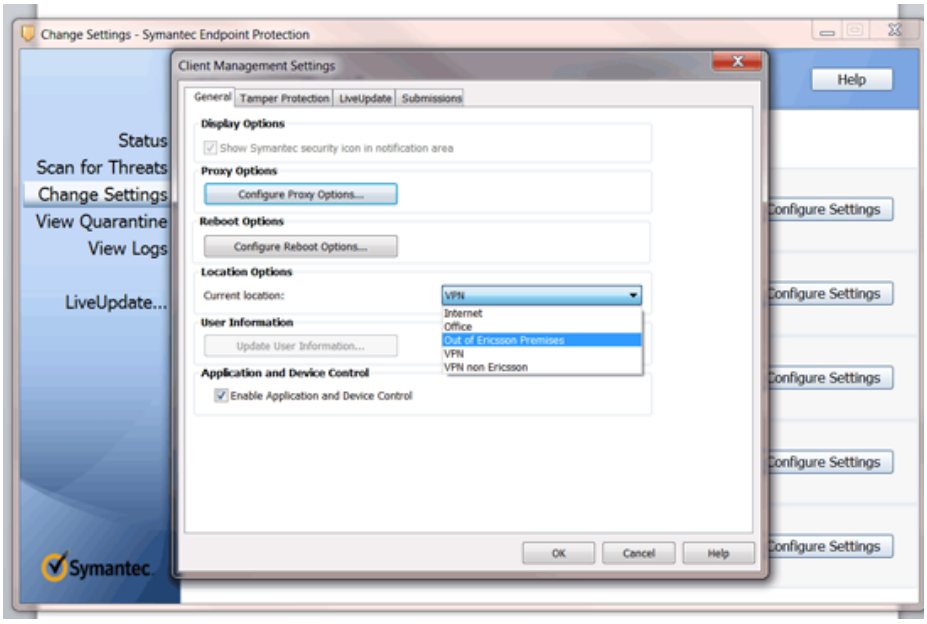
	
6	Set the location setting to - **Out of Ericsson Premises.** Click **OK**. 
7	Wait 20 seconds for the system to update.
8	Next to Network Threat Protection, click **Change Settings.**

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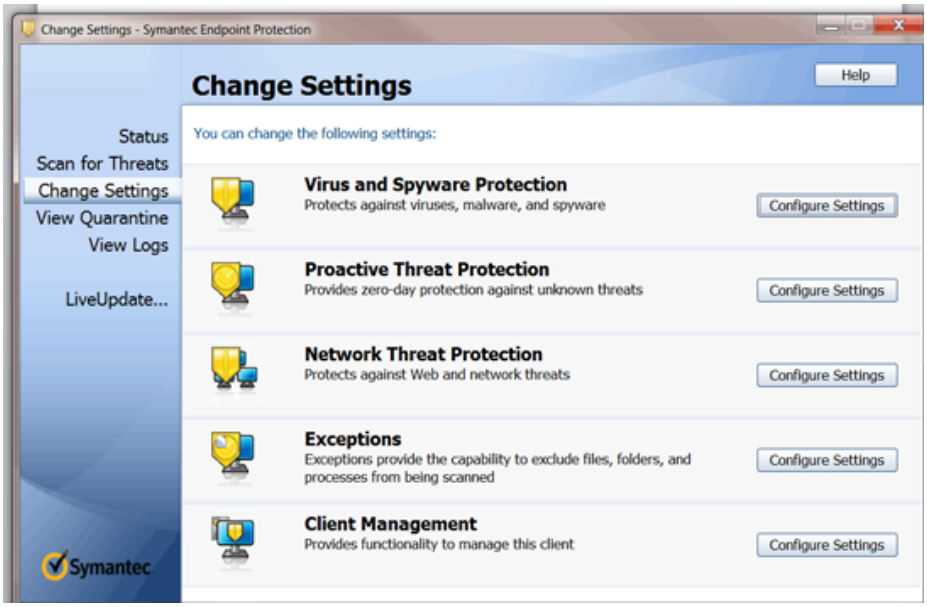
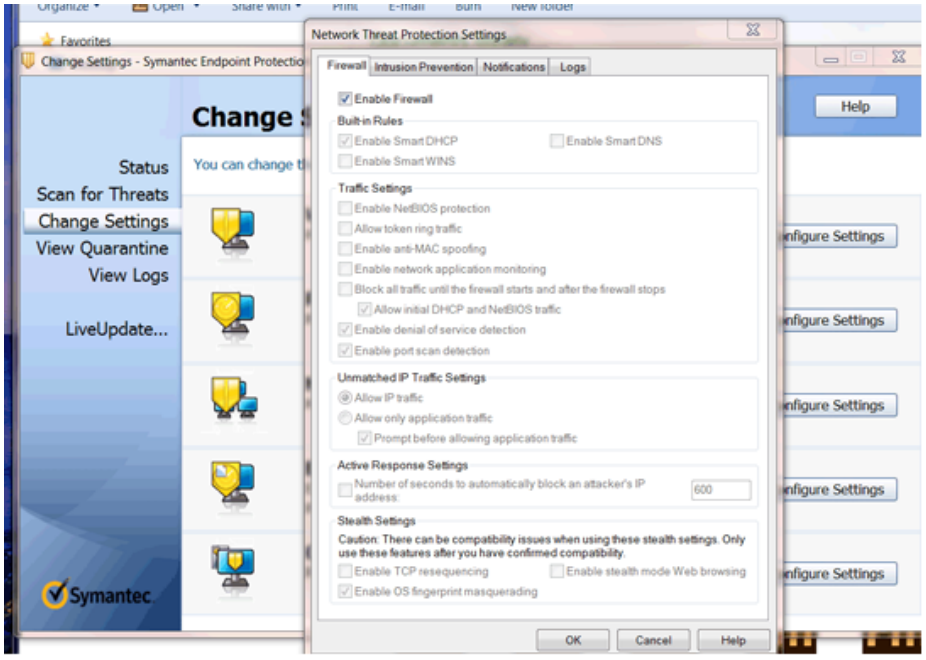
	
9	Remove the check from the box labeled Enable Firewall and Click **OK**. 

Start SFTP server on PC

The instructions in this document refer to Core FTP mini-ftp server.

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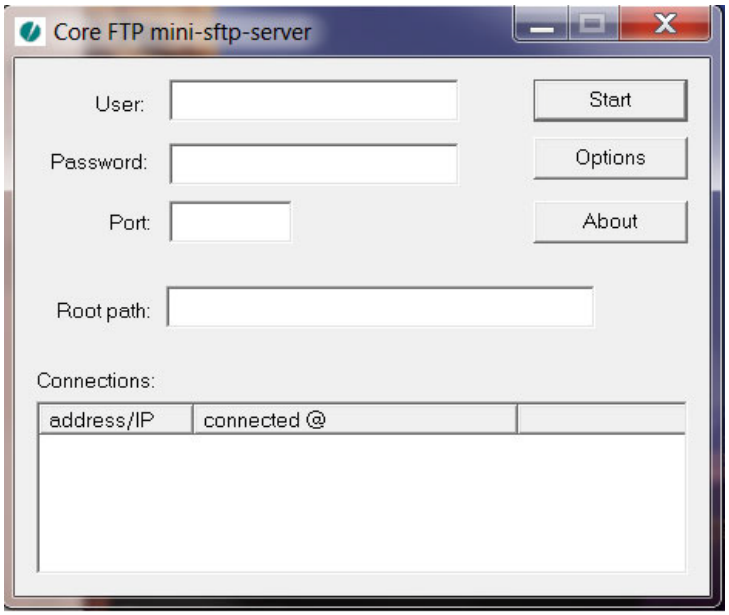
Start SFTP Server	
Step	**Task/Observation**
1	Open the SFTP server software. 
2	In the user field type: **rbs**
3	In the password field type: **rbs**
4	In the port field type: **22**
5	In the root path type: **C:\Node_Integration**

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	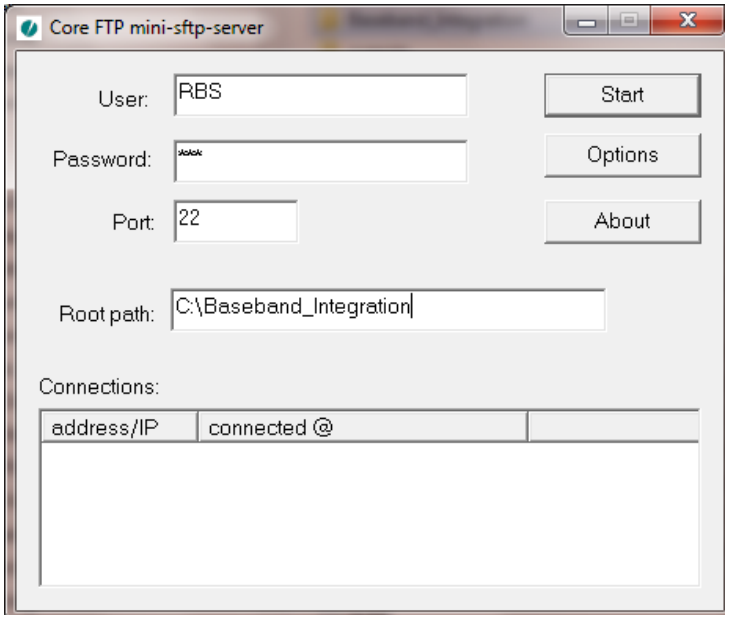
6	Click - **START**

Baseband integration using locally stored configuration files.

Baseband integration using the Network Loader's "LMT Integration on-site configuration" tab.	
Step	**Task/Observation**
1	Open a browser and connect to the Baseband Emergency Access window. https://169.254.2.2/ea.html

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	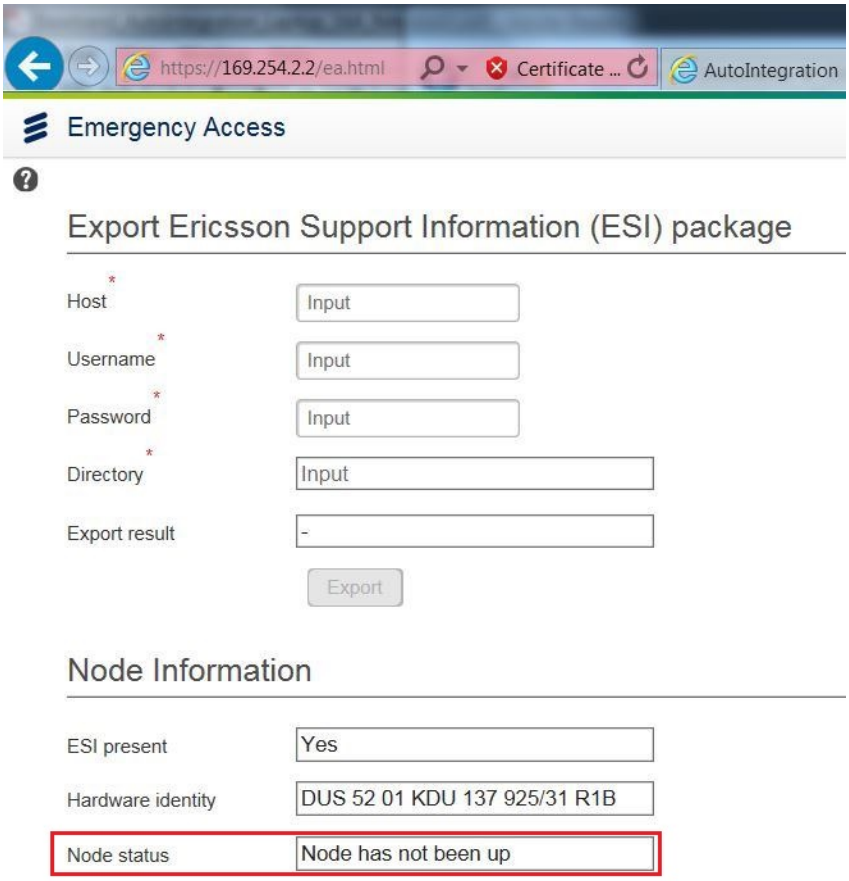 **Note: Approve the security certificate for this node local web site. The IP address of the LMT port is by default 169.254.2.2.**
2	If the Node status shows "Node has not been up" then skip this step. If Node status shows "Node is working" then click on "Board restore" to clear all existing data from the Baseband.

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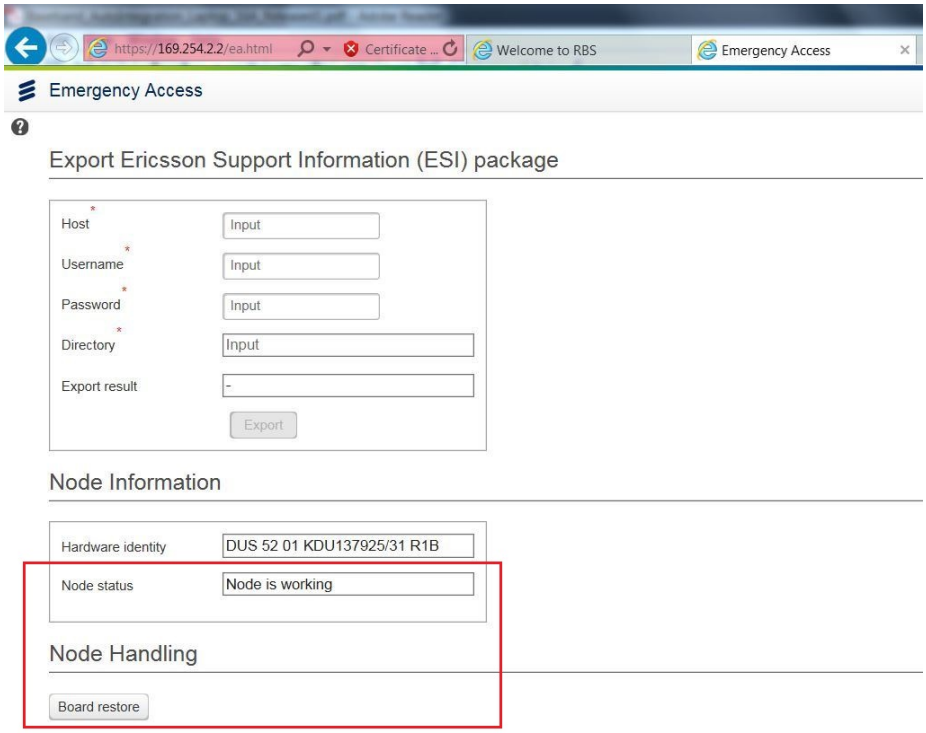

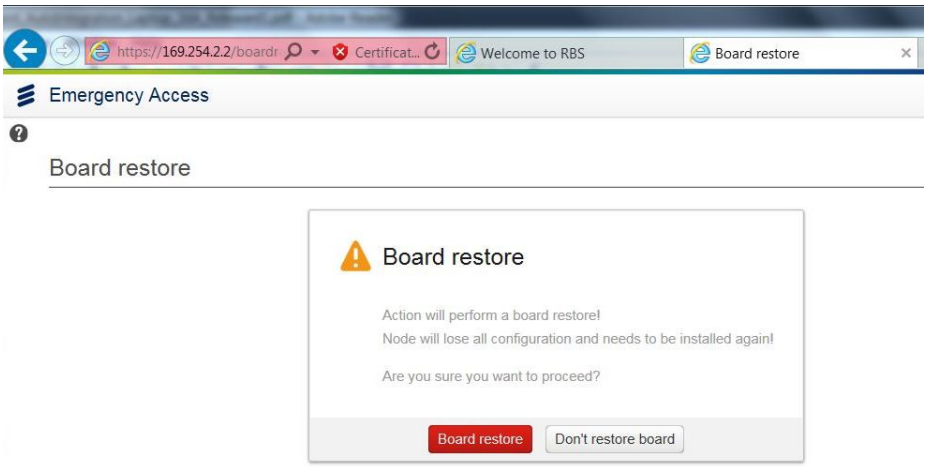

Note: It takes about 5 minutes for the board restore to complete.

3	Open a new browser window and connect to the Baseband node using the LMT port IP address. https://169.254.2.2

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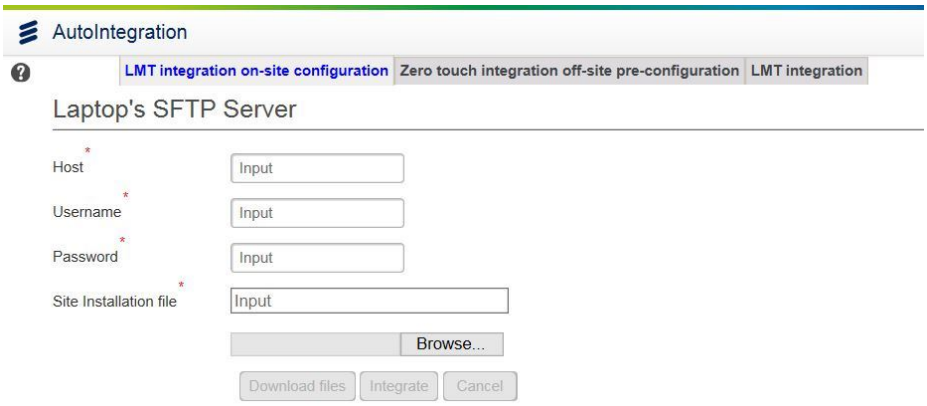
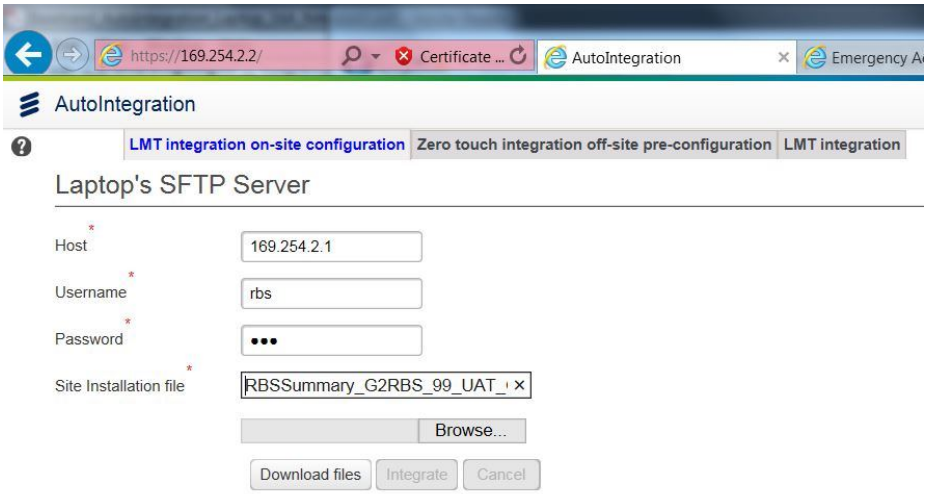
	Verify "LMT integration on-site configuration" tab is selected and is colored in blue  **Note: Approve the security certificate for this node local web site. The IP address of the LMT port is by default 169.254.2.2.**
4	In the HOST field type the IP address of the local terminal: **169.254.2.1**
5	In the Username field type: **rbs**
6	In the password Field type: **rbs**
7	In the Site Installation File field type the full name of the RBS Summary File. **Note: The RBS Summary File is created for each site and may have extra characters in the name.** You will need to type the full file name as it is shown. For example: RBSSummary_G2RBS_22_Lu_SK_Telecom_2015_10_23T06_53_32Z.xml 

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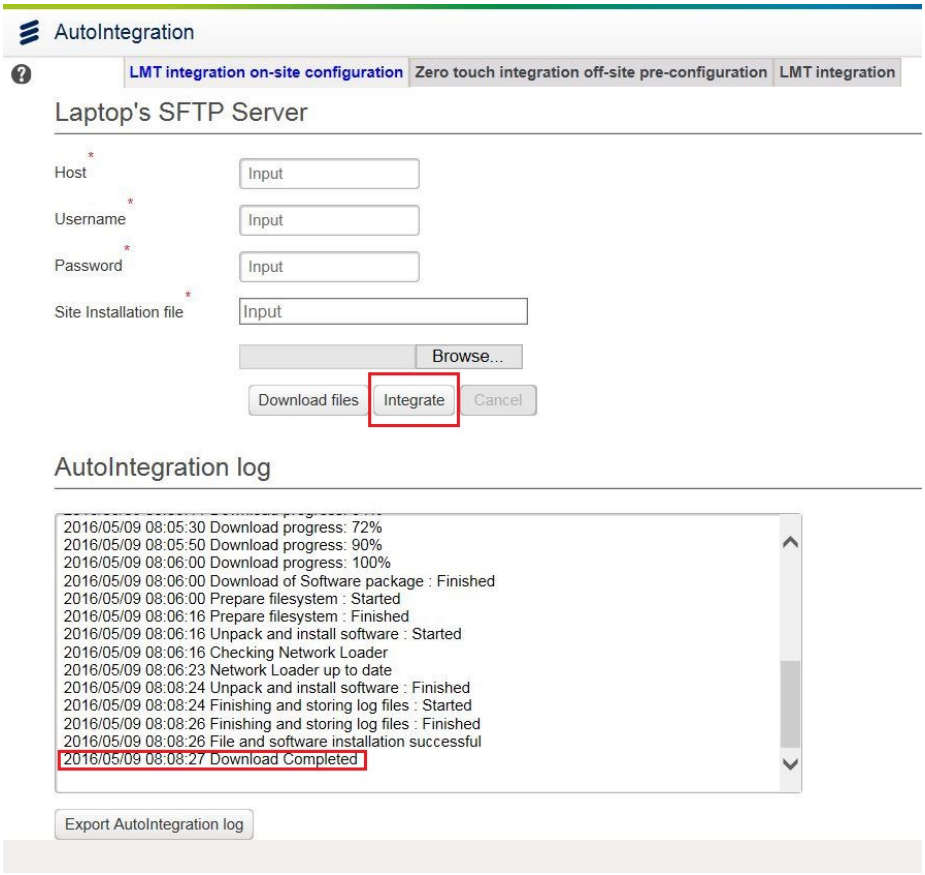
8	Click on the **Download Files** button. The system will start downloading and installing the software. This step can take up to 20 minutes. **Note: If you observe any errors during the execution of the script, please take a capture of the error and send it to the engineering team that provided you the script**
9	Once the download is complete click on the **Integrate** button.  **Note: If you observe any errors during the execution of the script, please take a capture of the error and send it to the engineering team that provided you the script**
10	The system will start integration and reboot.
11	Wait 5 to 10 minutes and check the AutoIntegration log to see if SITE_CONFIG_COMPLETE message is displayed.

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	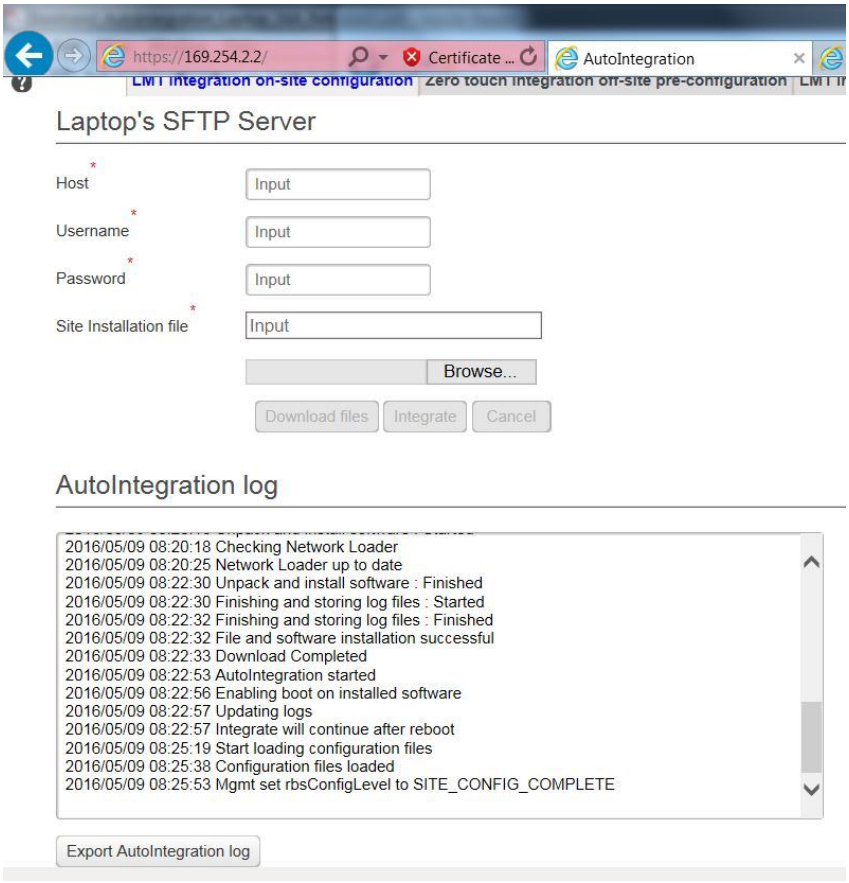 **Note: It is normal for the blue progress bar at the bottom of the browser window to stop at 70% when using this method of integration.**
12	Check the Emergency Access browser window to ensure the Node Status shows: “Node is working.”
13	Save the AutoIntegration log that is displayed on the web browser window to your PC and give it a name indicative of the site name. The easiest way to save the log is to click in the log window and select all, then copy and paste the log content into notepad or any other text editor.

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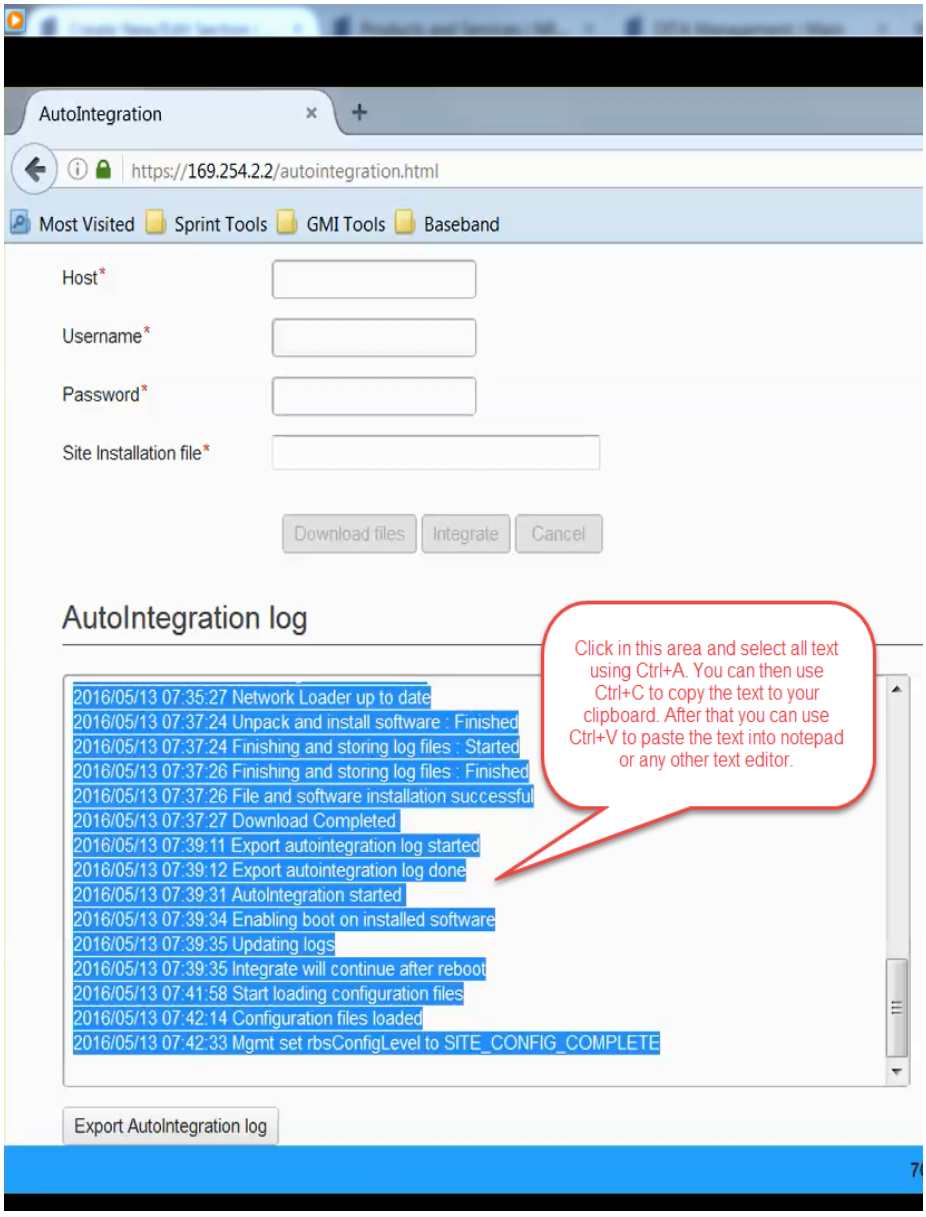

You could also click on the "Export AutoIntegration log" button and provide your local laptop IP address, username, password, and filename you would like to give for the log. The web browser will use sftp to send the log file to your PC.

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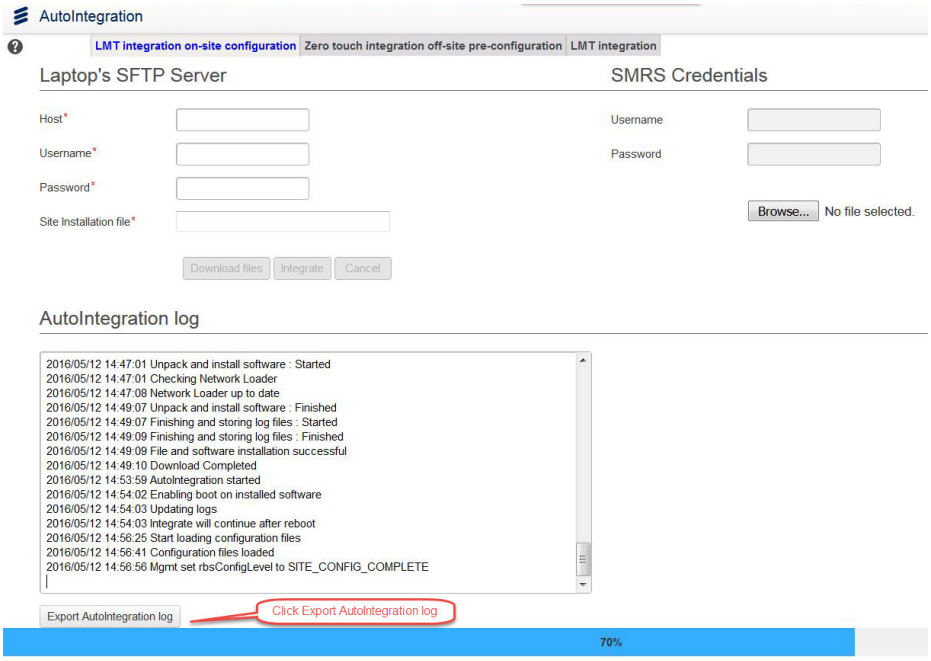

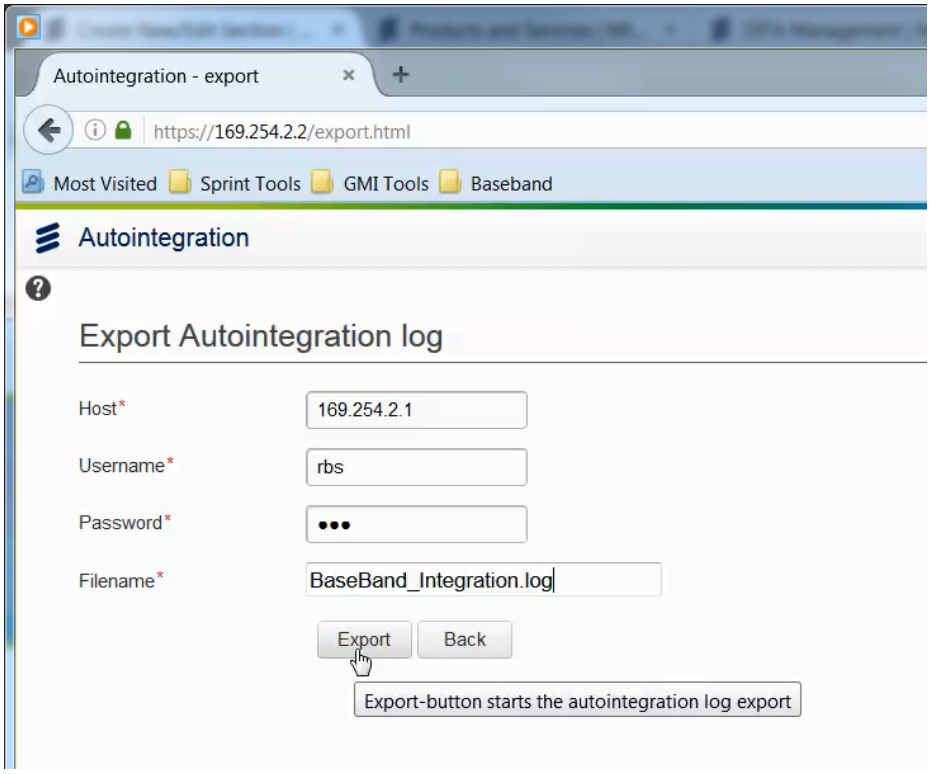

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Contact Remote Integration Team

The LMT Integration On-site Configuration procedure above downloads and applies the software Upgrade Package, Site Basic, Site Equipment, and License Key File to the Baseband. The remainder of the integration process, including applying the TN and RN files, will be completed remotely from the ENM or the OSS-RC by the remote integration engineer.

Call the NIC (Network Integration Center) and inform them that the onsite integration of the Baseband has been completed. If possible, send the NIC a copy of the autointegration log from the activity performed onsite.

Confirm that remote integration engineer can access the node remotely from the OSS-RC or the ENM server.

At this time, the remote integration engineer should synchronize the node to the OSS-RC or the ENM database and continue the node integration process by applying the TN/RN and all post installation scripts associated with the site.

The remote integration steps for OSS-RC are outlined in the **Baseband Integration – Remote Procedure for OSS-RC** and the remote integration steps for the ENM platform are outlined in the **Baseband Integration – Remote Procedure for ENM**. Both NDDs can be found on the CMS web portal.

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Appendices

Appendix - Configuration Files Description

The table below provides a brief description of the standard configuration files used during Baseband node integration.

File Name	File Type	File Content
RbsSummary	Netconf (.xml)	Contains the paths to the SiteBasic and SiteEquipment files used in the integration.
SiteBasic	Netconf (.xml)	Contains Security management, system management, and transport network configuration.
SiteEquipment	Netconf (.xml)	Contains information related to node hardware.
Transport Network (TN)	Netconf (.xml)	Contains configuration related to the transport / backhaul of the node.
Radio Network (RN)	Netconf (.xml)	Contains configuration related to the wireless / radio access technology being deployed i.e. LTE, WCDMA,

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		GSM.
Feature Activation script	Moshell (.mos)	Activates Node features.
Post Integration script	Moshell (.mos)	Applies customer / market specific parameters to the site.
Cell Relations script	Moshell (.mos)	Defines node cell relations.
Upgrade Package (UP)	ZIP	Contains Network Loader and Software Installation files.
License Key File (LKF)	XML	License keys for node features.

Appendix - Collect ESI Package

There may be some instance where the support team might ask the onsite Field Engineer to collect an Ericsson Support Information (ESI) package from the Baseband node. Refer to previous sections in this document on how to connect to the Baseband, disable the PC firewall, and start sftp server on the local PC terminal. Use the following steps to perform the data collection to send to the next level of support.

Exporting ESI Package from Baseband	
Step	**Task/Observation**
1	Connect to the LMT port of baseband node. Refer to the section called "Connect to Baseband" for more details on how to set the IP address on your PC.
2	Disable any Firewall software that might be running on your PC. Refer to the section called "Disable Firewall" for more details.
3	Create a folder on your PC where you would like the ESI file be placed.

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	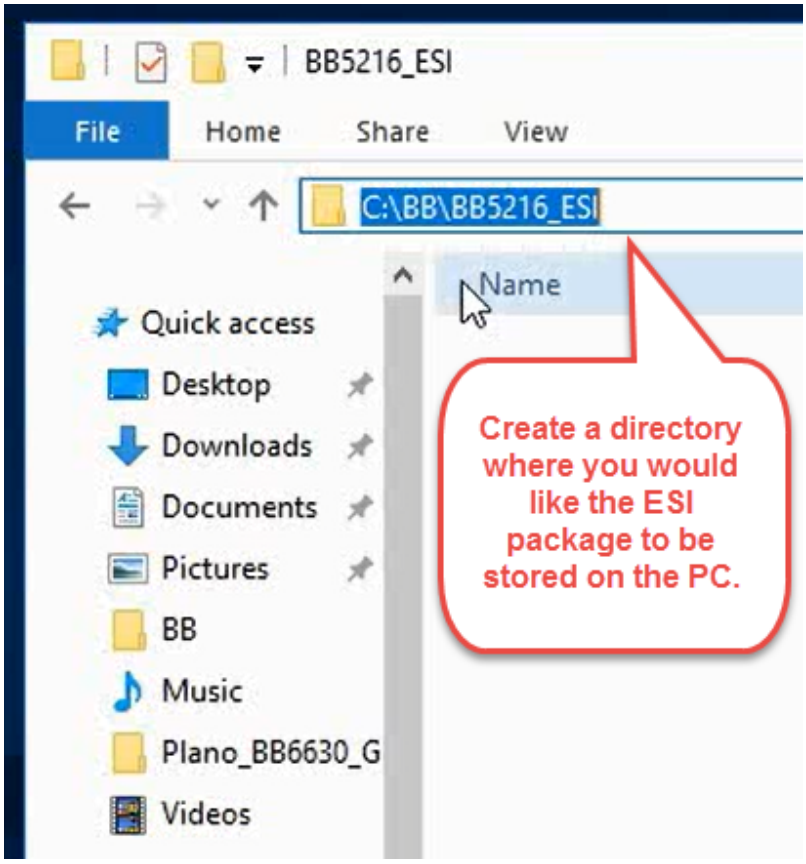
4	Copy the path to the directory as you will need it when setting up the sftp server in the following step.

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	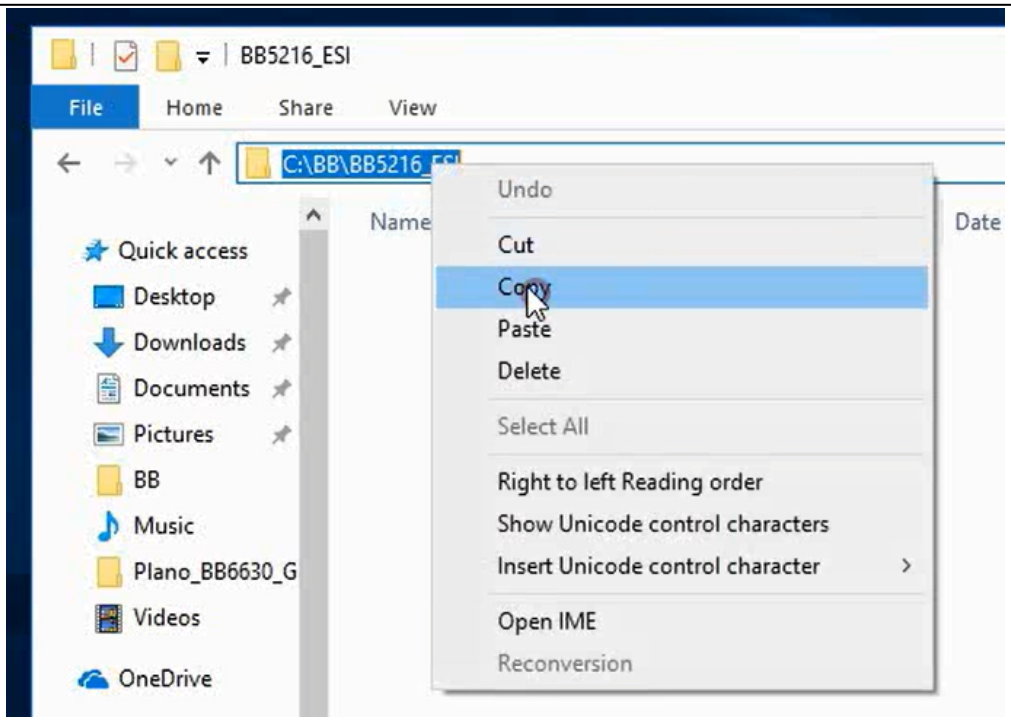
5	Refer to "Start SFTP server on PC" section in this document to start the sftp server on the PC that is connected to the Baseband LMT port. Make sure you specify the path to the directory that you created in the previous step in the "root path" field.

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	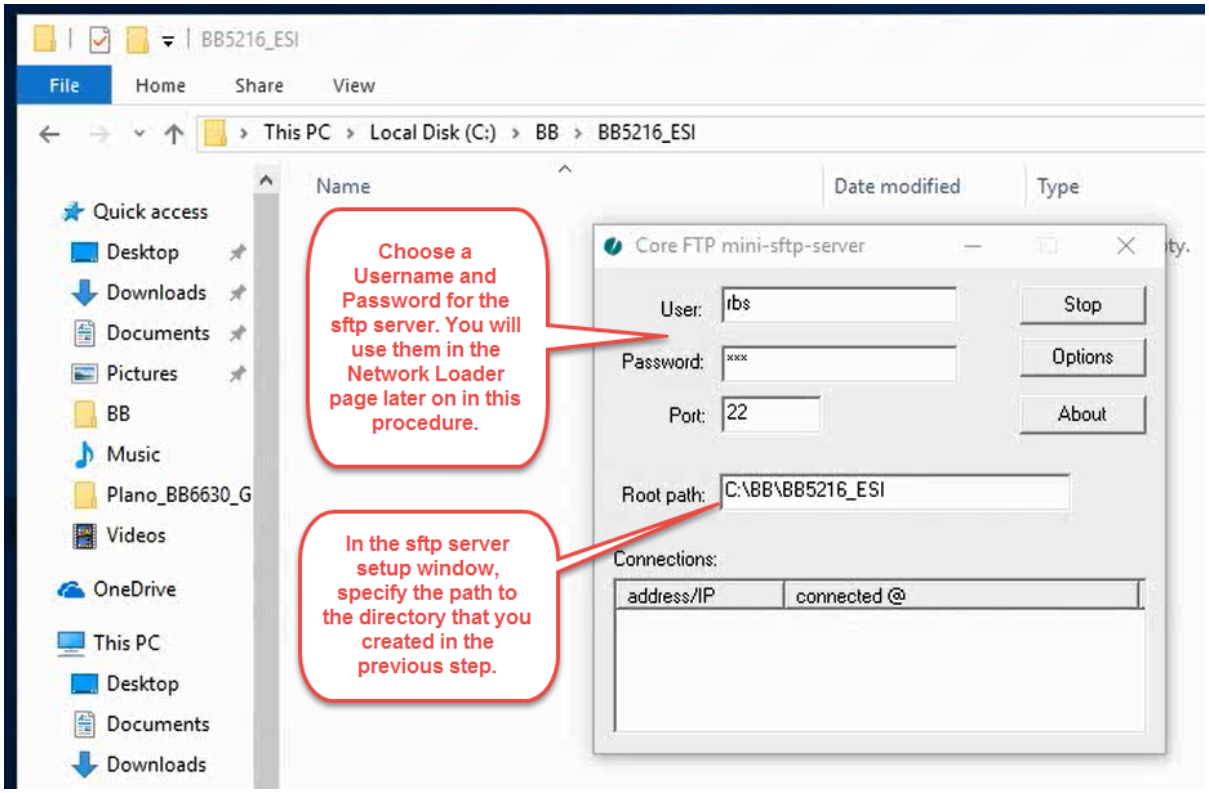
6	Click on "Start" to start the sftp server.

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	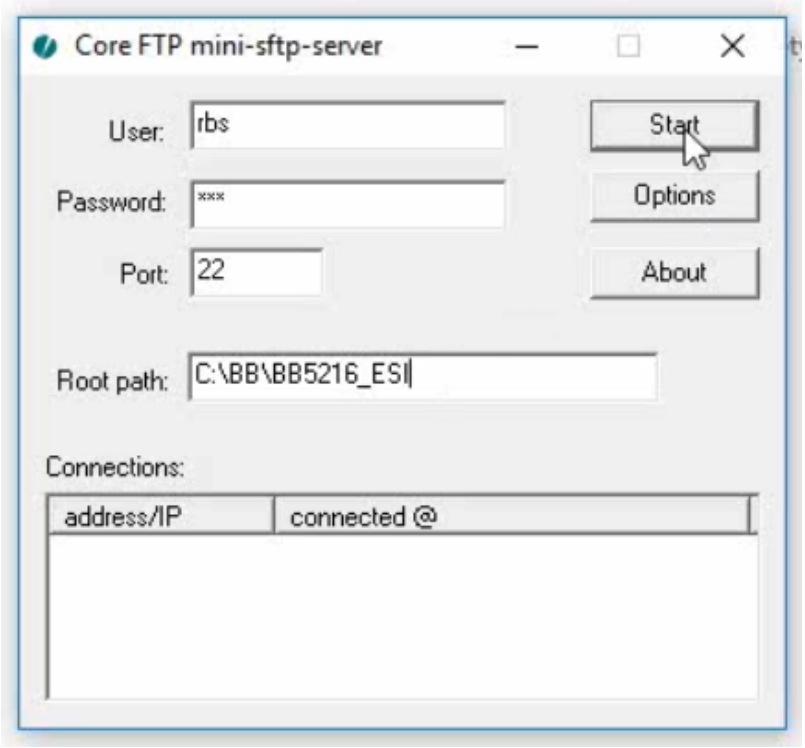
7	Open a browser and connect to the Baseband Emergency Access window. https://169.254.2.2/ea.html

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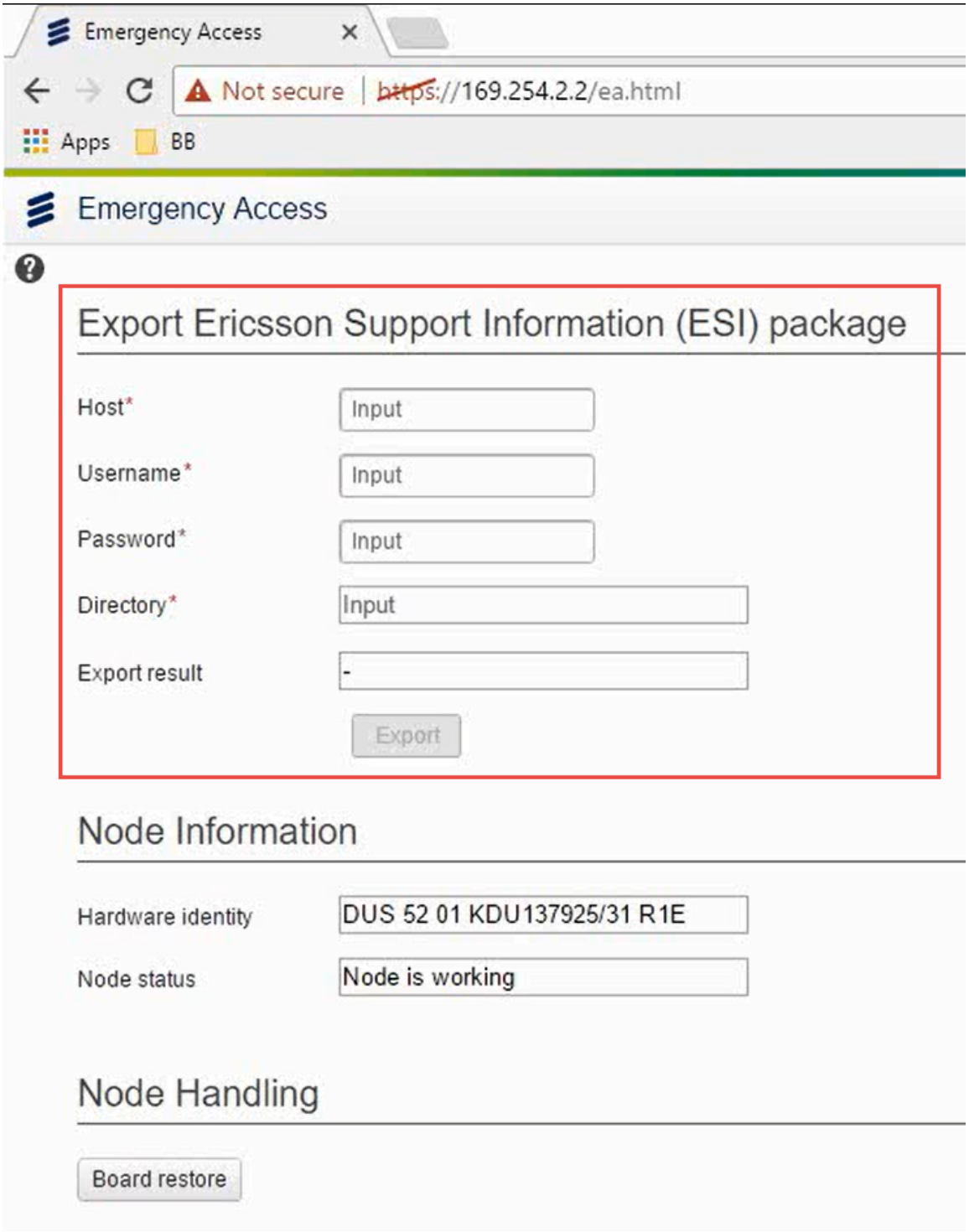

Note: Approve the security certificate for this node local web site. The IP address of the LMT port is by default 169.254.2.2.

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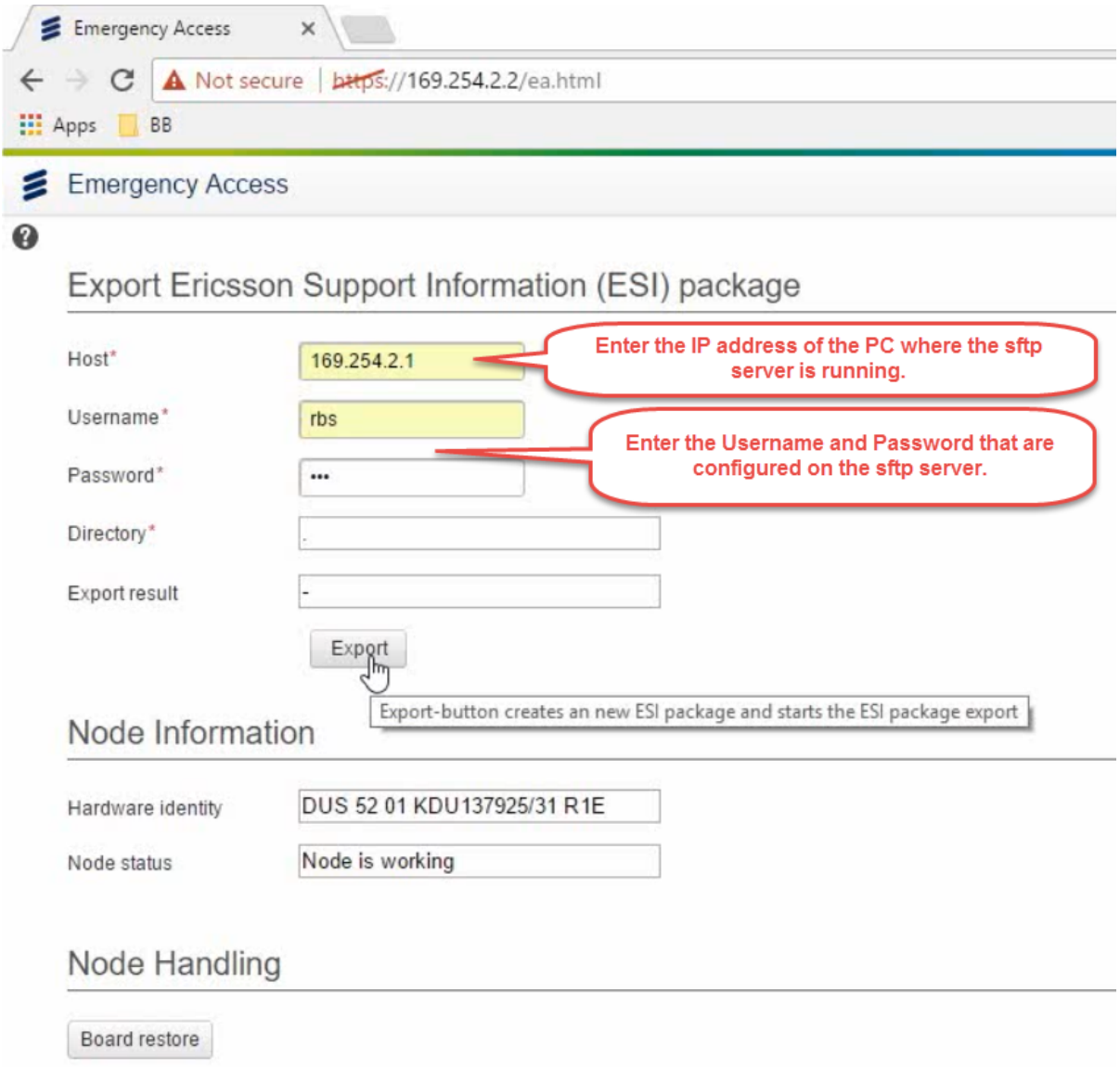
8	Enter the host IP address, Username, and Password in the corresponding fields of the Baseband Emergency Access window. 
9	In the Directory field, put a (.) dot. This will tell the Network loader to put the ESI package in the root path directory of the sftp server.

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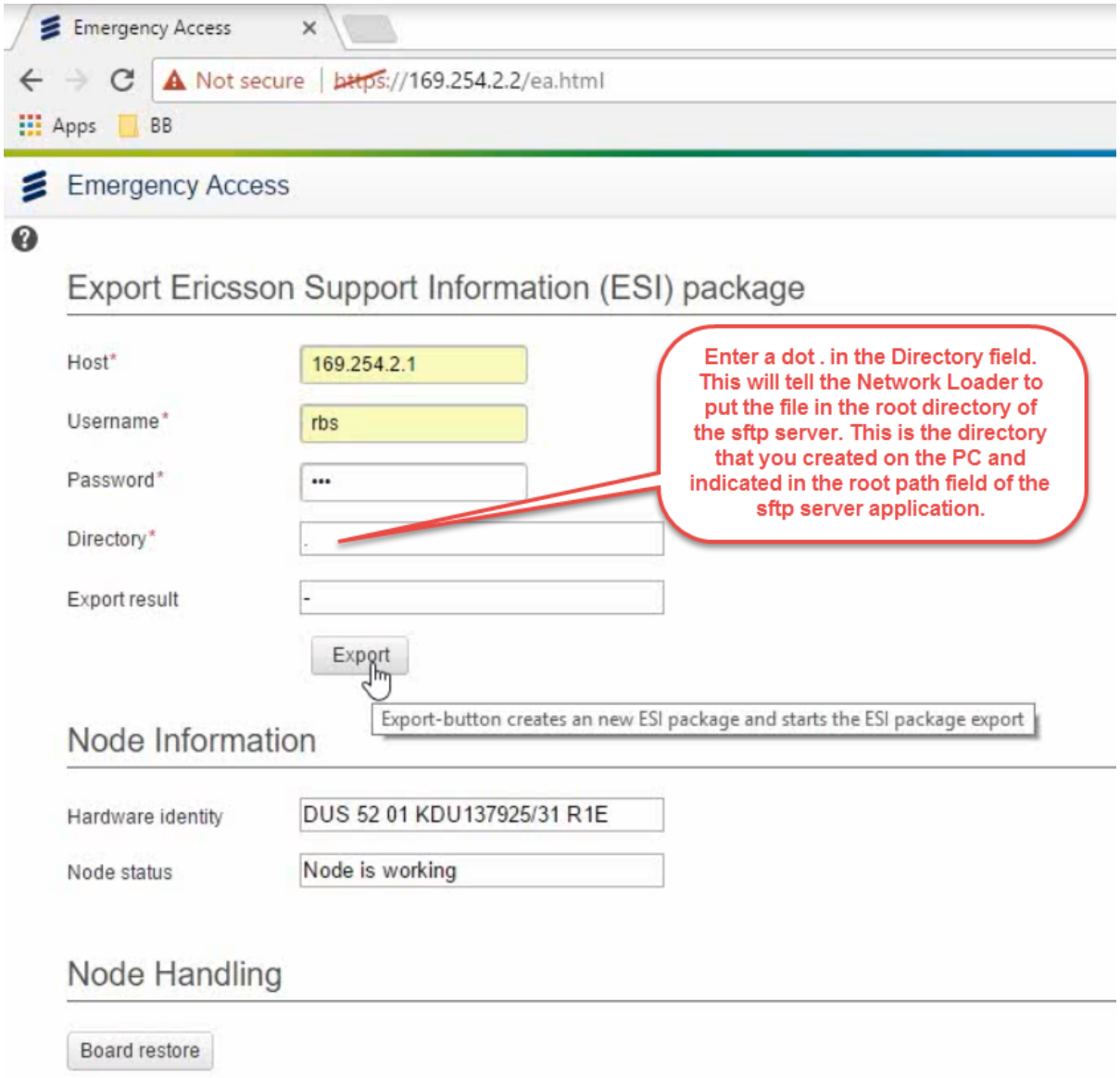

10	Click on the **Export** button.

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	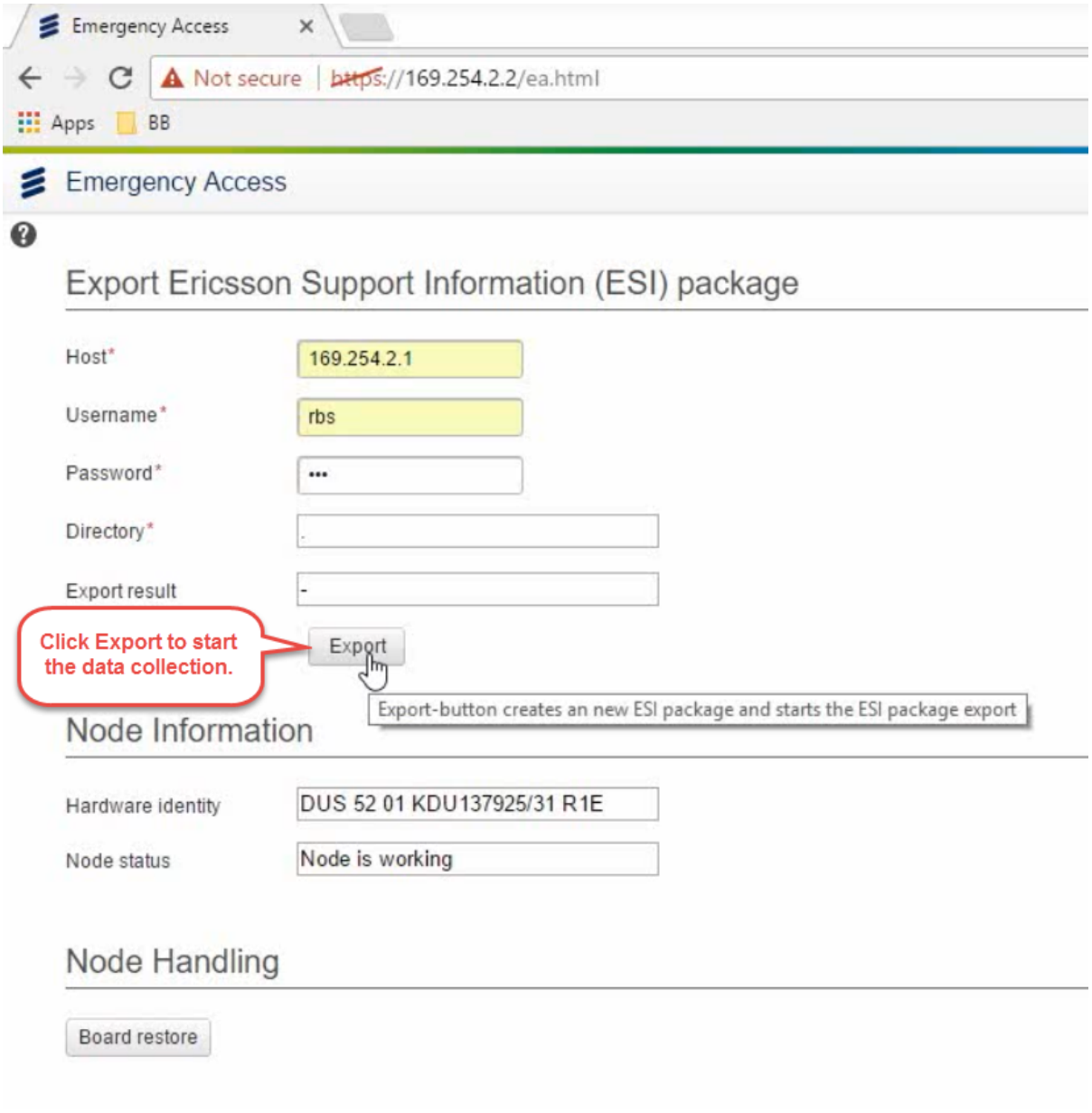
11	The window will refresh and the "Export result" field will show that the ESI data collection has started.

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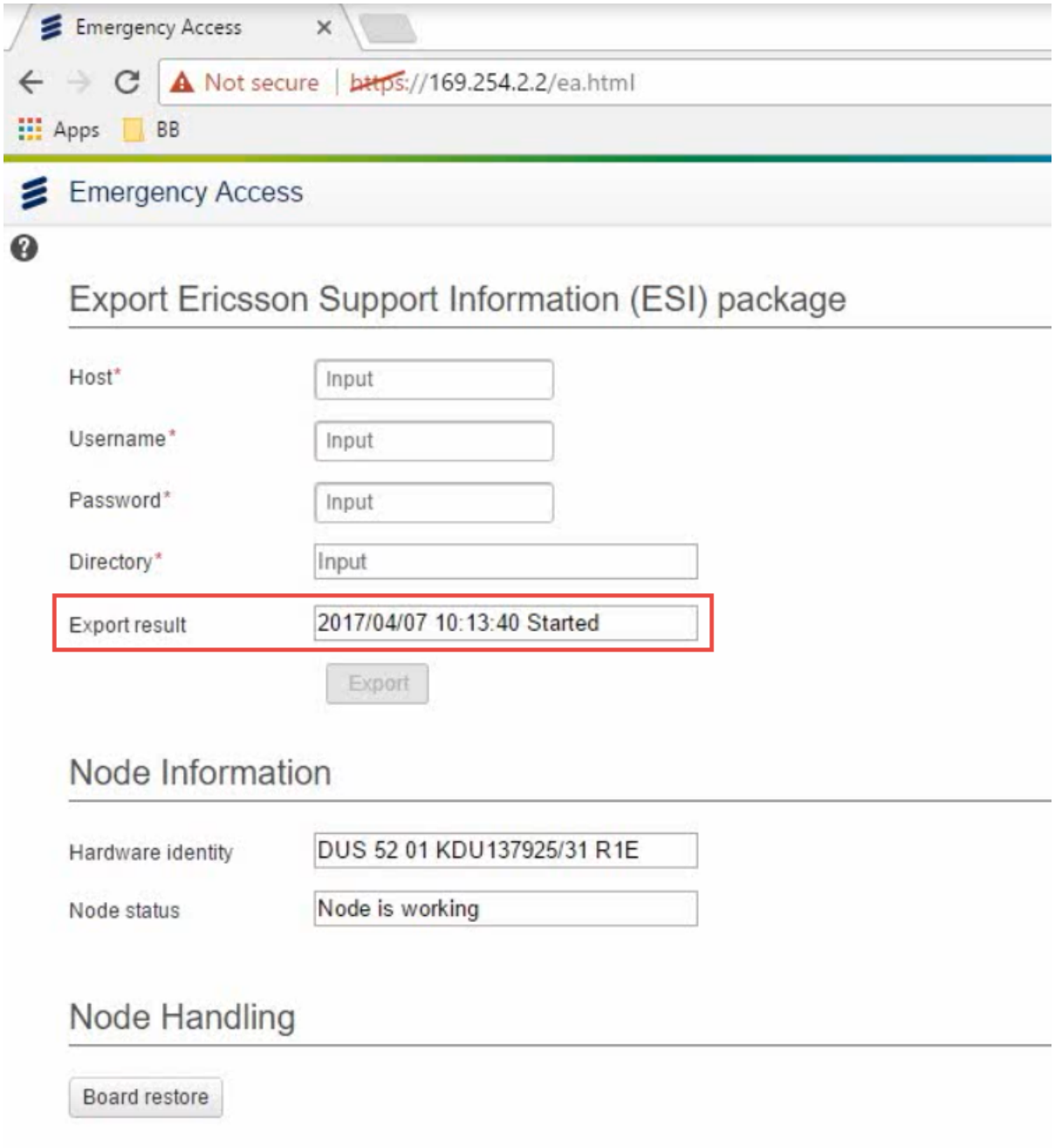

12	Wait a few minutes until the "Export result" field shows Finished.

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	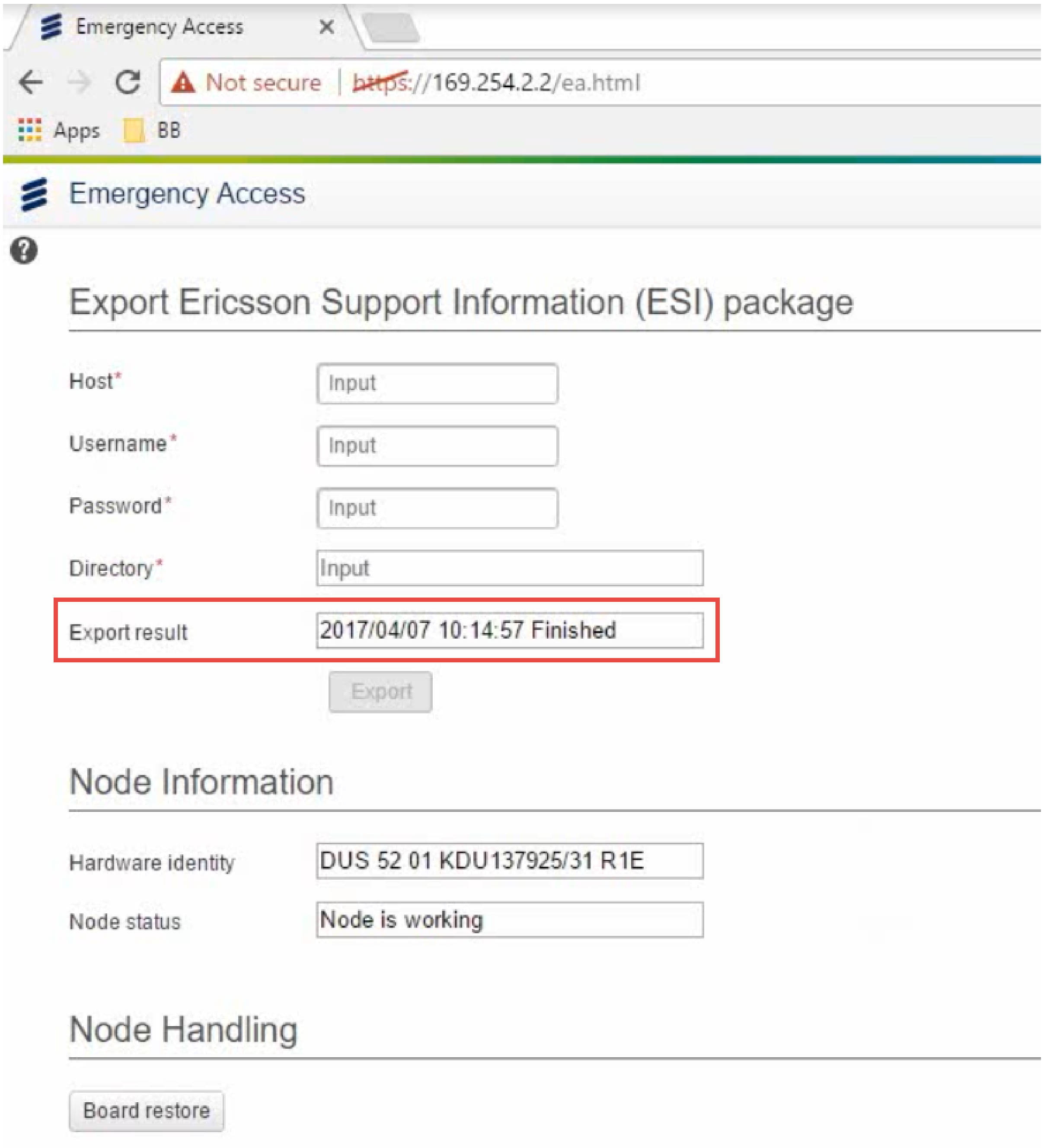
13	At this point you should find the ESI data collection file in the folder you created on the PC.

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	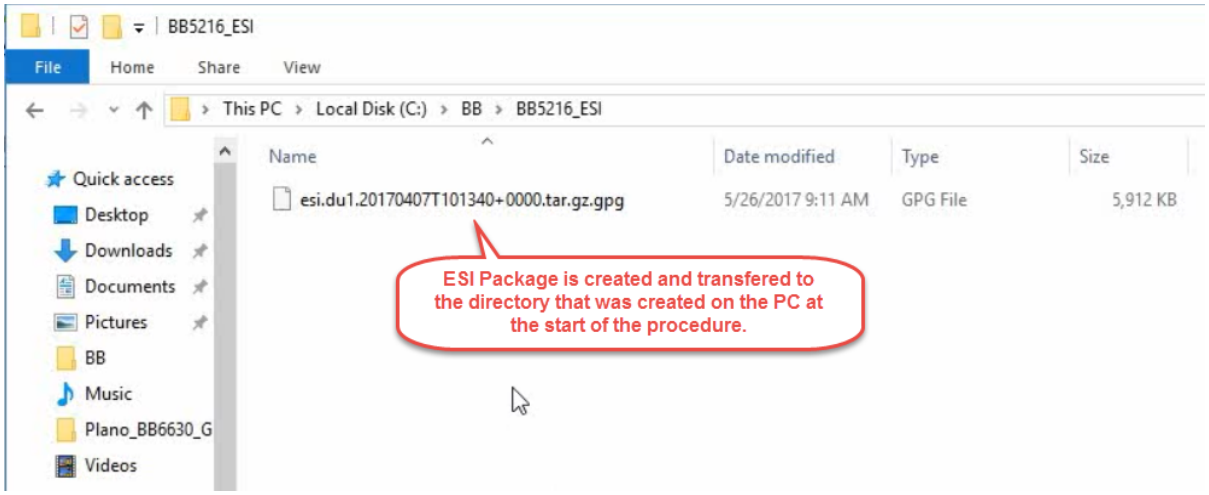
14	Attach the file to an email and send it to the next level of support that requested the data.

Appendix - Intellectual Property Rights (IPR)

This document contains Ericsson Intellectual Property (IP) also known as Intellectual Property Rights (IPR). This document was created using modified/selective content from the Telcordia GR-1275 Central Office/Network Environment Equipment Installation/Removal Generic Requirements Issue 12.

This document is not intended for use by external customers or any customer delegate, including Third Party vendors and/or sub-contractors. Review of this document with customers should only occur with the knowledge, consent and control of Ericsson personnel in a manner where content is not distributed to the customer.

The following Table of IPR examples is provided as reference information and examples to identify Ericsson Intellectual Property (IP). This information is provided for use by Ericsson Customer Unit interfacing functions.

- Detailed Acceptance Plans/Test Cases
- Detailed Assembly Instructions/Diagrams
- Cable Diagrams
- Connections
- Ericsson Developed Tools
- Installation Instructions
- Commissioning Instructions
- Integration Instructions
- Integration files/scripts

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- Software upgrade command lines
- Processes
- Configuration files/scripts
- Ericsson Developed Applications (Apps)
- Industrial design
- Session logs
- Restricted User Level Passwords
- IOT (Inter-Operability Test) and Integration Processes
- Copyright material
- Patent material
- Trademark material
- Ericsson Radio Frequency Specs
- Debug logs
- Detailed Patch Procedures
- Any capture of Ericsson messaging traffic (i.e. Wire Shark)

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Glossary

The Glossary is used to define the Terms and Acronyms used throughout the document.

Term/Acronym	Definition
AIWS	Auto Integration Web Service
AP	Auto Provisioning
ARNE	Add Remove Network Element
BSIM	Base Station Integration Manager
CLI	Command Line Interface
DU	Digital Unit
DUR	Document Update Request
ENM	Ericsson Network Manager
FTP	File Transfer Protocol
G1	Generation 1 node (i.e. DUL / DUS / DUG)
G2	Generation 2 node (i.e. Baseband 5212 / 5216)
GUI	Graphical User Interface
IPR	Intellectual Property Rights

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L/G	LTE / GSM
L/W	LTE / WCDMA
LKF	License Key File
LMT	Local Maintenance Terminal
NDD	NRO Deployment Document
NIC	Network Integration Center
OMC	Operations and Maintenance Center
OSS-RC	Operations Support System - Radio and Core
RBS	Radio Base Station
RN	Radio Network
RRU	Remote Radio Unit
SFTP	Secure FTP
SIF	Site Installation File
SMRS	Software Management Repository Services
TN	Transport Network
UP	Upgrade Package
USB	Universal Serial Bus

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Change Request Process

If you have comments or corrections for this document, please click the **Suggest a Change** button below the section you wish to update.

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