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Quick Guide for Nokia Flexi EDGE BTS and FlexiHopper commissioning

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Contents

Contents 3

1 Introduction 5

2 Connection setup 7

3 FIFA commissioning 11

4 Flexi EDGE BTS commissioning 21

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1 Introduction

This document describes how to commission Nokia Flexi EDGE BTS with Nokia FlexiHopper microwave radios. Only the EasyWizard template based commissioning is described in this document.

This document assumes that the needed configuration has been created to the BSC, and that the needed transmission path has been defined up to the last hop to the BTS.

The following issues are briefly described in this Quick Guide:

- Connection setup
- FIFA commissioning
- Flexi EDGE BTS commissioning

All additional information, such as manual commissioning and troubleshooting instructions, can be found in the Nokia Flexi EDGE BTS customer documentation.

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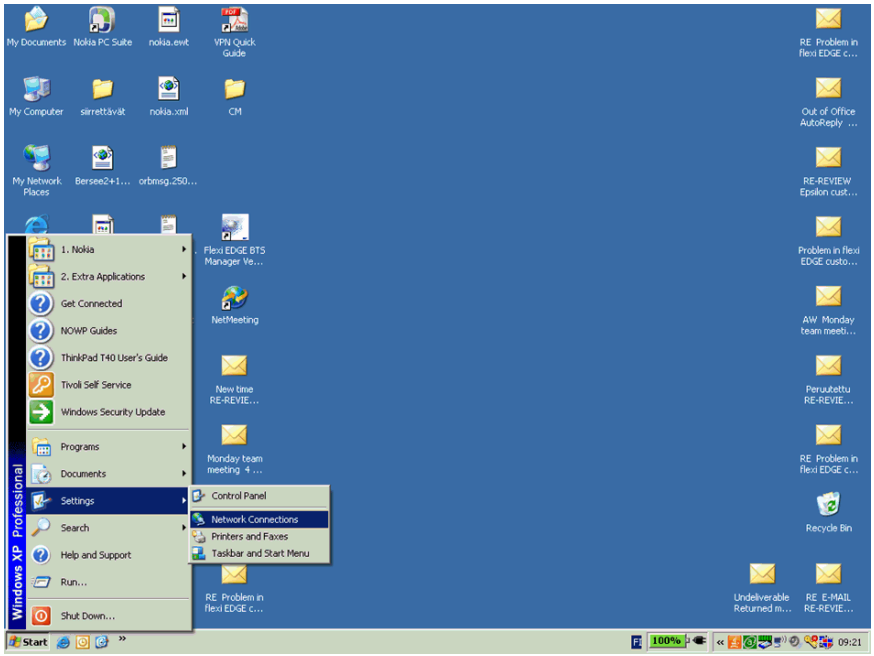
2 Connection setup

Steps

1. Change IP address settings.

Select **Start** → **Settings** → **Network Connections**.



Select Local Area Connection.

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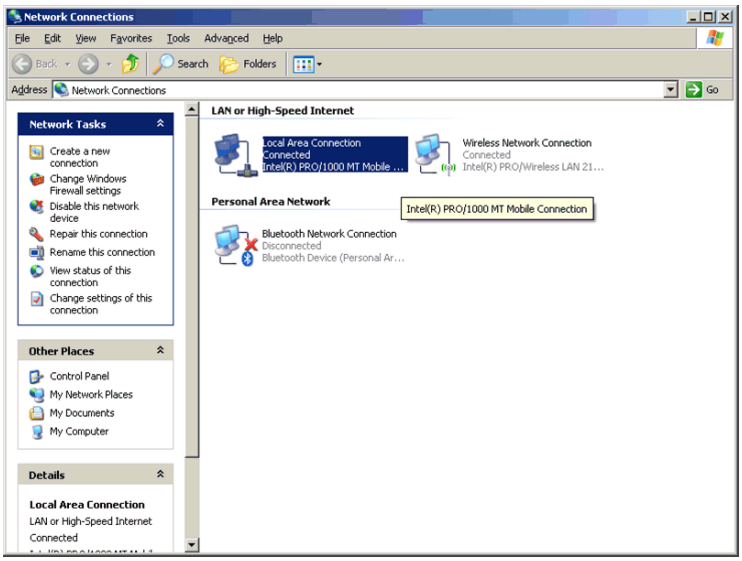
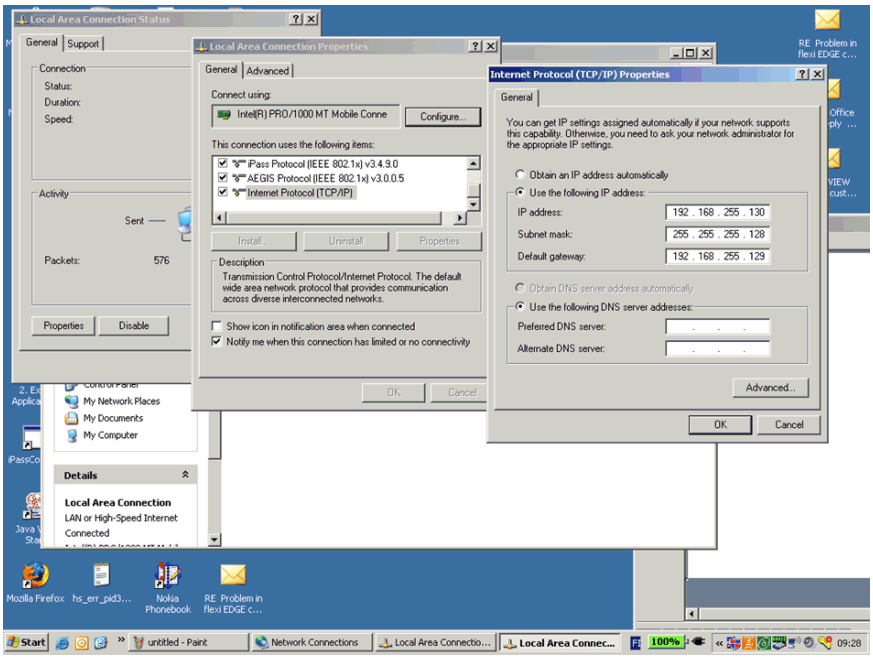


Click **Properties** in the **Local Area Connection Status** dialog box. Select Internet Protocol (TCP/IP), and click **Properties** in the **Local Area Connection Properties** dialog box. Select **Use the following IP address** and define the IP addresses. Click **OK**.



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Note

If you have a personal firewall installed on your PC, you need administrator rights to set the IP address of the BTS in the friend list of you firewall.

2. **Perform the visual check to the BTS:**

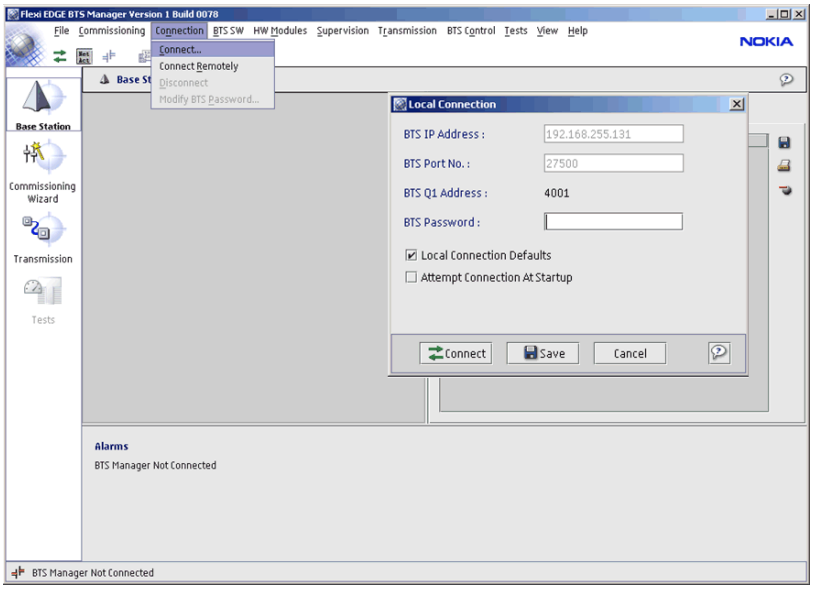
   Check the following items:
   - the grounding
   - power cabling
   - transmission cables (E1 or FlexBus)
   - LED status during power up
   - TX/RX antenna connector torgue check (7/16 connector 25Nm)

3. **Connect the Ethernet cable from the PC to the Flexi EDGE BTS.**

4. **Check and connect E1/T1 or Flexbus cables to transmission card.**

5. **Launch the Flexi EDGE BTS Manager and choose Connection → Connect.**

   The BTS password not required in the first connection. Click **Connect** to establish the connection.



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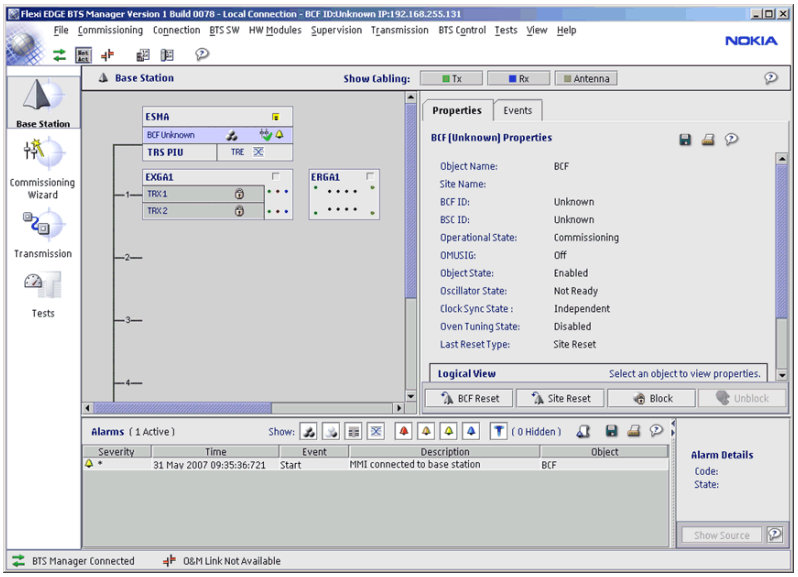
After the connection is established, the Flexi EDGE BTS Manager main view opens.



6. Update the BTS software if necessary.

7. If the FIFA is used, choose Transmission - Launch FlexiHub Manager and follow the instructions described in FIFA commissioning.

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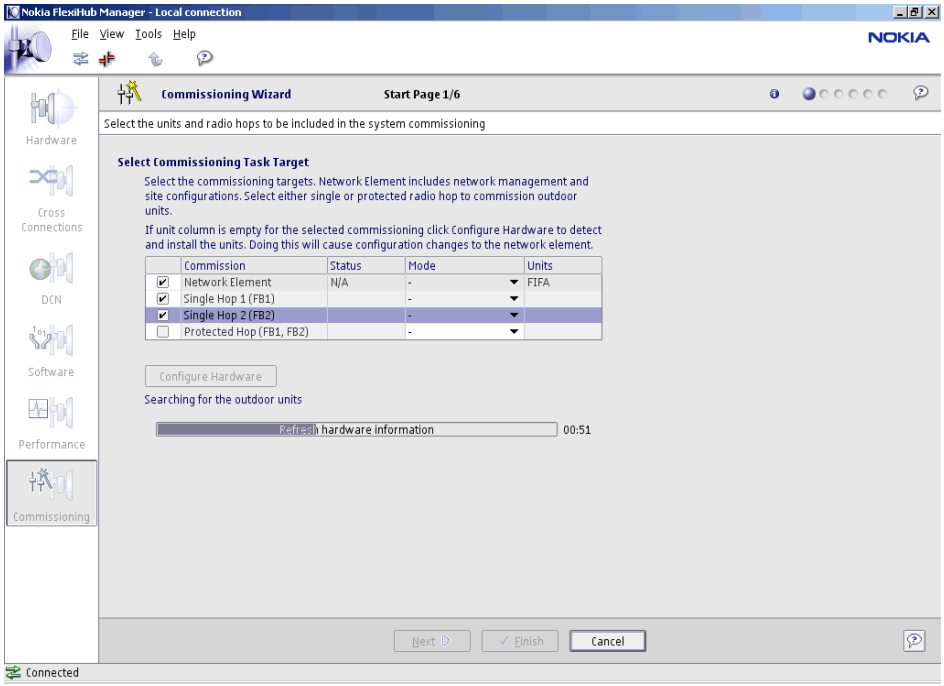
3 FIFA commissioning

Before you start

All the parameters need to be defined according to the transmission plan.

Steps

1. **Select Commissioning on the FlexiHub Manager's View Bar to start the Commissioning Wizard.**



Select the network element and radio hop(s) to be commissioned, and click **Next**.

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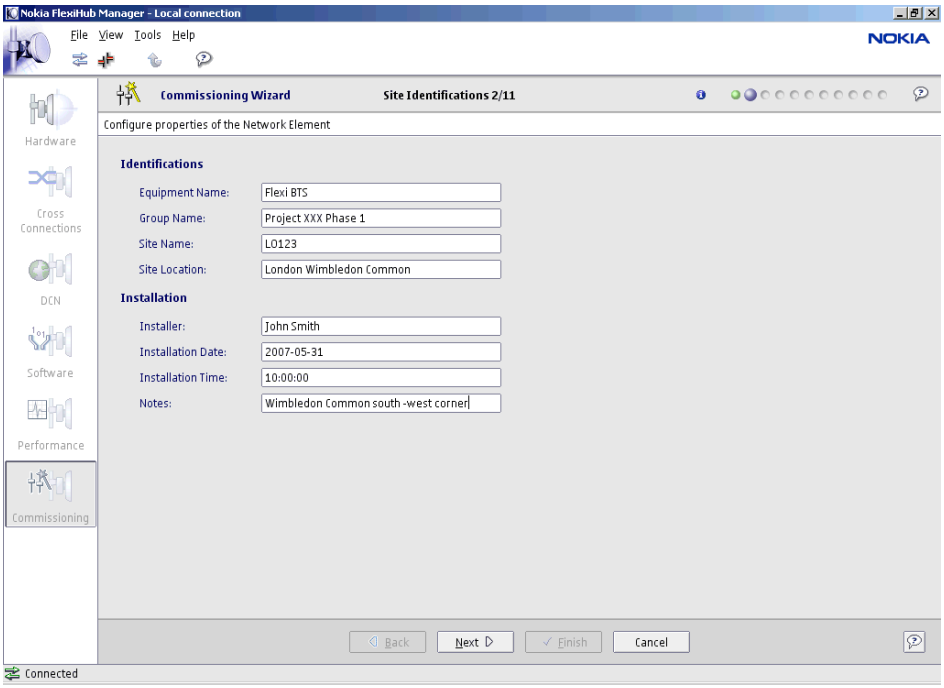
Note

When FlexBus 2 is in use, a licence is needed. Always inform Network Operation Center if FlexBus 2 is set as used without the valid licence.

Define the site identification and installation information, and click **Next**.



Fill in the Q1 management information for the remote network management, and click **Next**.

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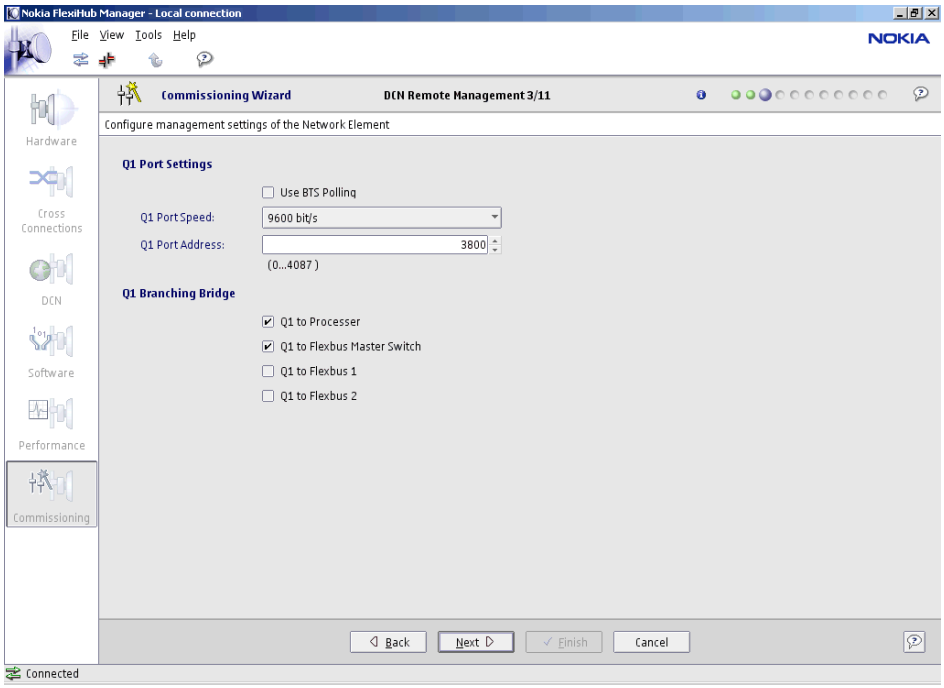
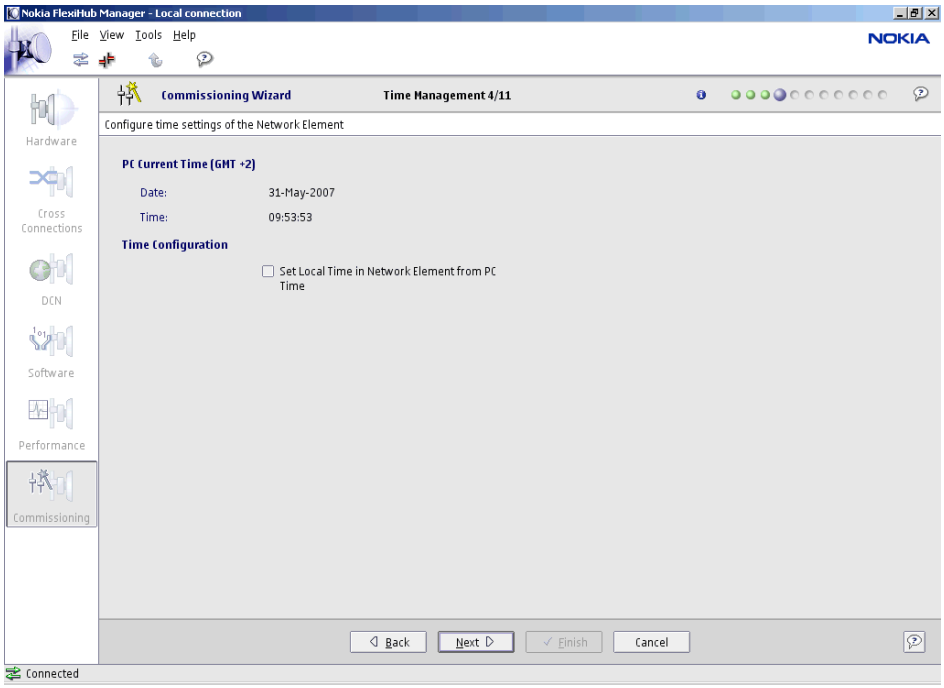


Set the real time clock settings, and click **Next**.



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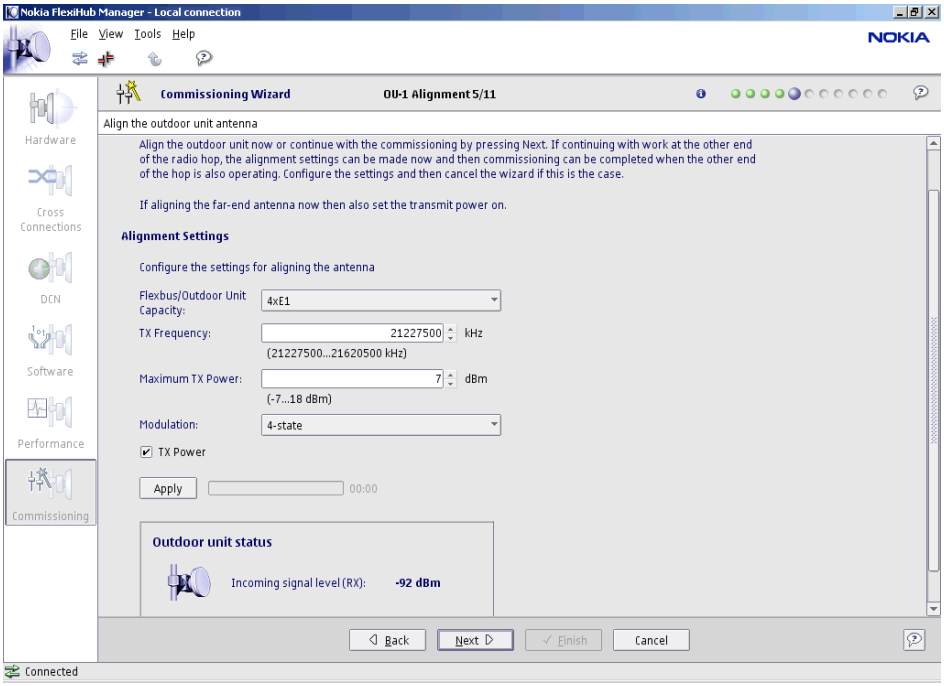
Define the alignment settings, and click **Apply**.



Ensure that the incoming signal level (RX) fulfils the requirements. To reach the planned RX level, a link alignment should be performed. The alignment requires at least one person to both ends. An analog multimeter is a good tool for monitoring the AGC voltage during alignment. Click **Next**.

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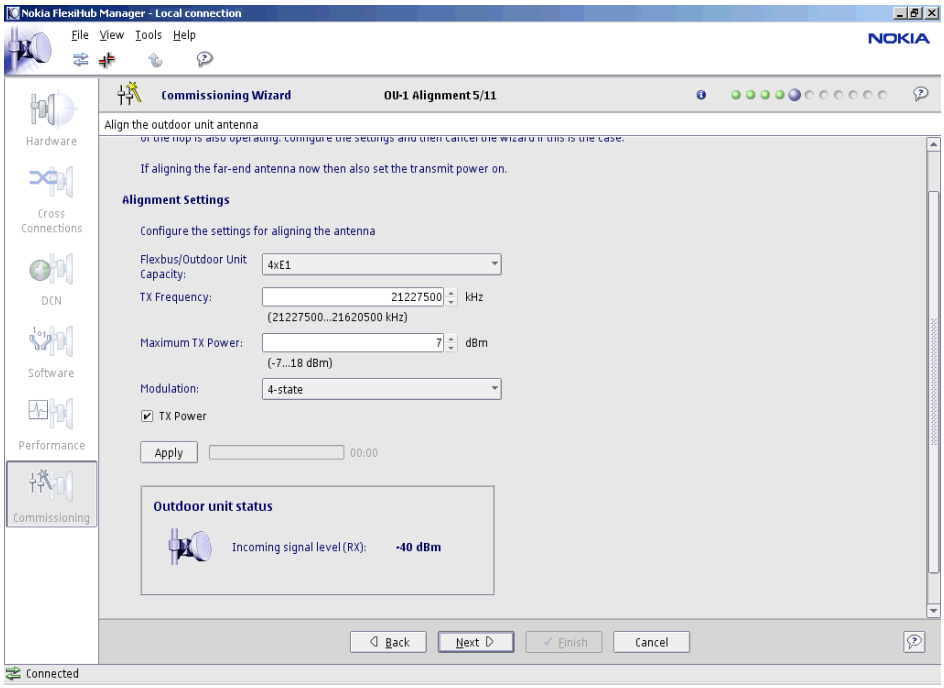
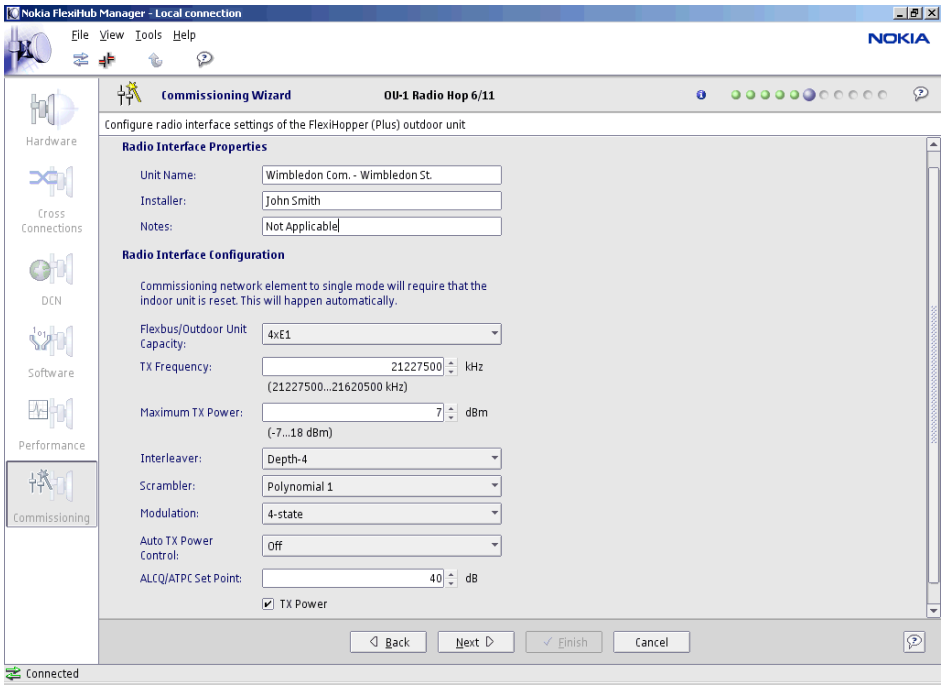


Define the radio interface settings, and click **Next**.



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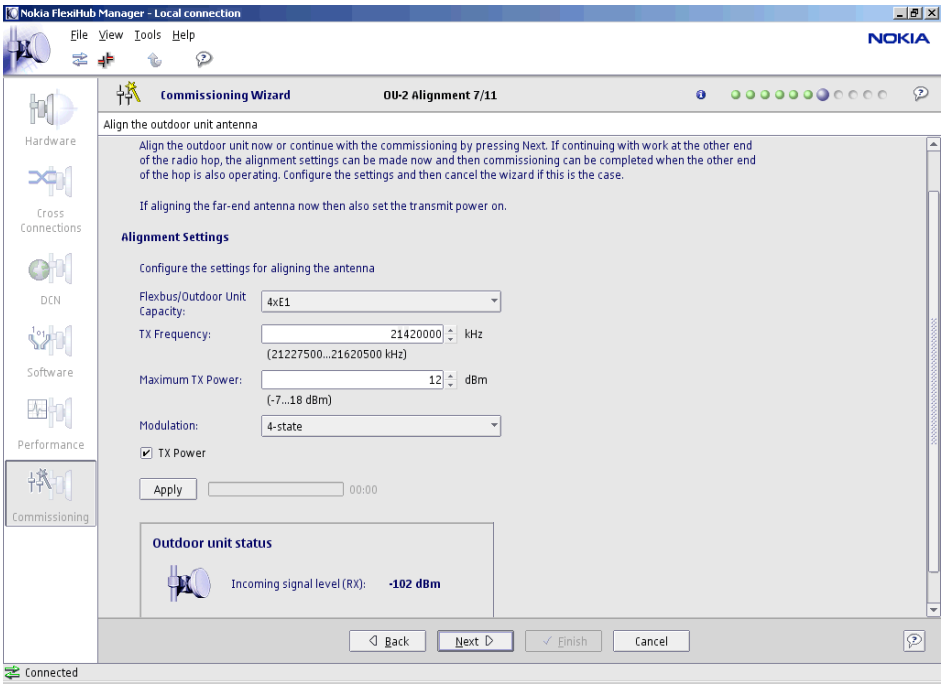
If there are two outdoor units, define the alignment settings for the second unit, and click **Apply**. Ensure that the incoming signal level (RX) fulfils the requirements. Click **Next**.



If there are two outdoor units, define the radio interface settings for the second unit, and click **Next**.

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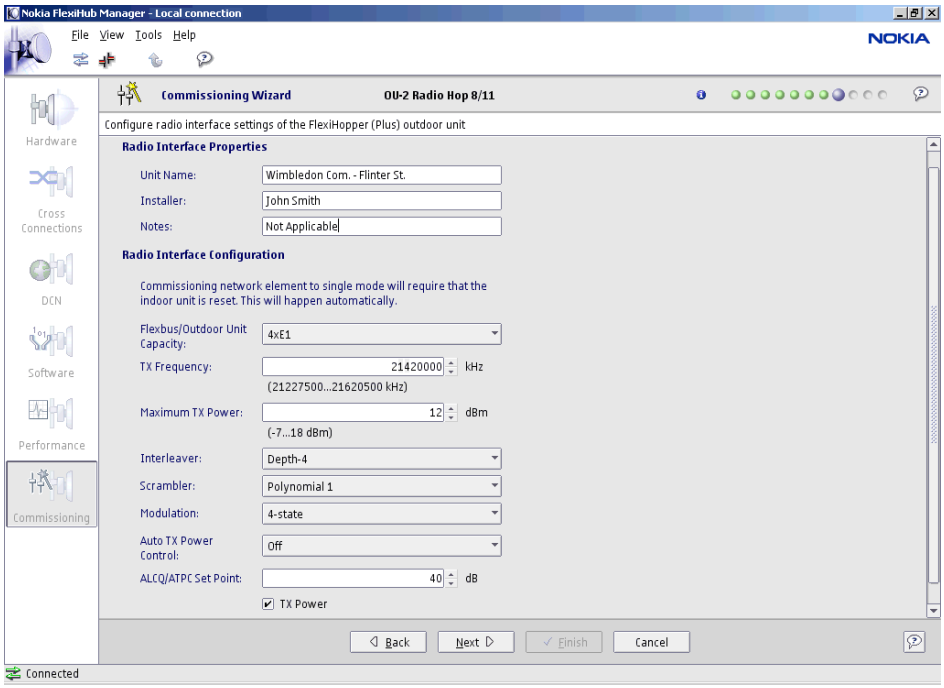

Check that the parameters are according to the transmission plan, and click **Send Parameters** to send the settings to the node. After the parameters are successfully sent, click **Next**.

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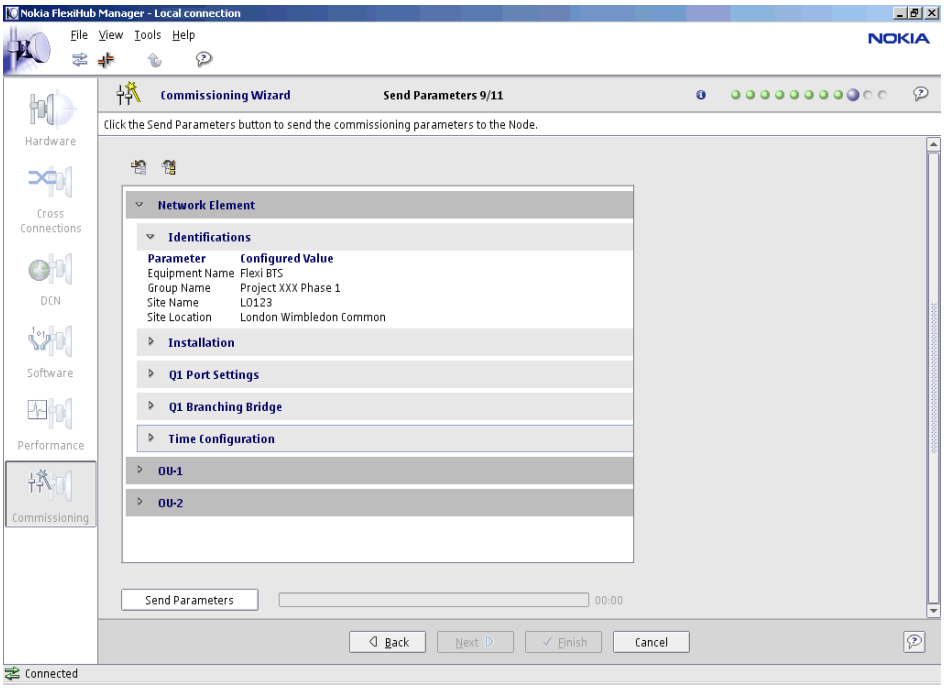
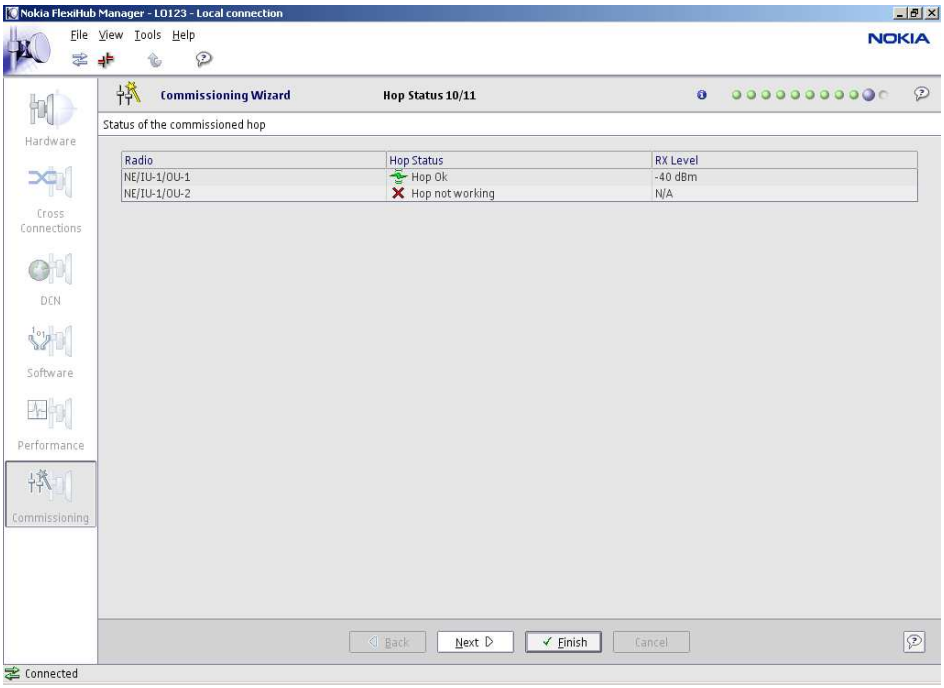


Check the Hop Status. Click **Next**.



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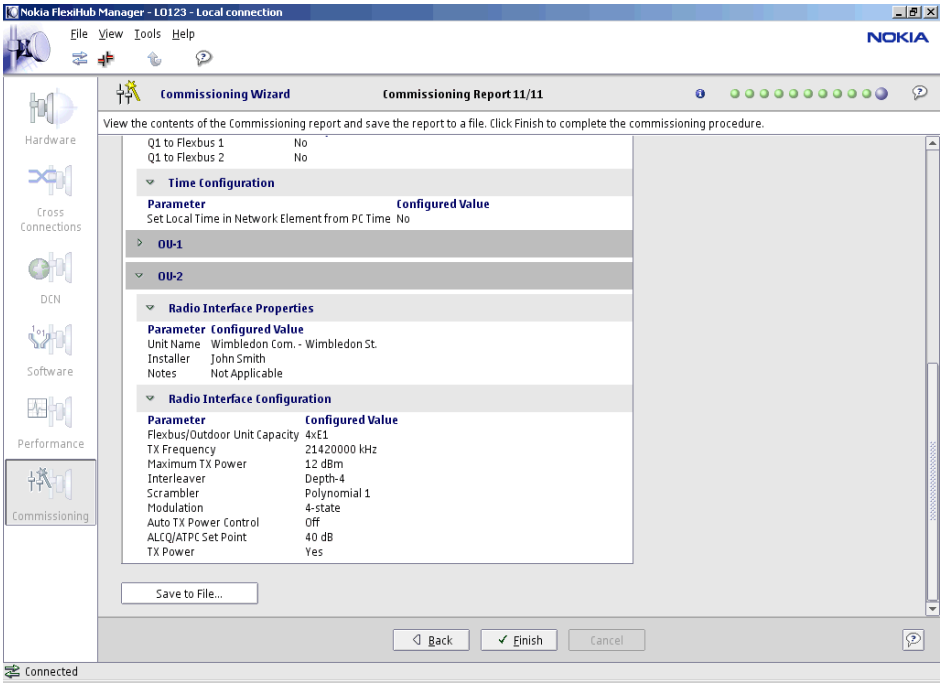
Save the commissioning report, and click **Finish**.



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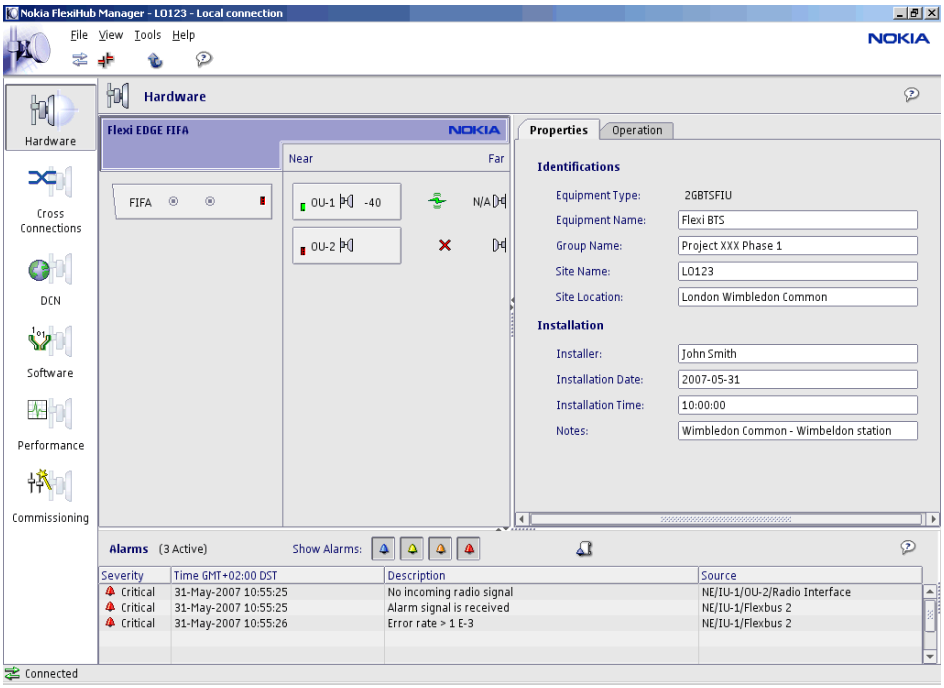

Figure 1. The FlexiHub Manager main view after successful commissioning.

2. Select Cross Connections on the FlexiHub Manager's View Bar to open the Cross-Connections view, and check the cross connections.

3. Exit the FlexiHub Manager and return to the Flexi EDGE BTS Manager.

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4 Flexi EDGE BTS commissioning

Before you start

All the parameters need to be defined according to the network plan.

Note

In case the transmission plug-in unit (PIU) module type changes, perform undo commissioning with removal of bypass traffic after the new PIU is inserted. After that, commission the Nokia Flexi EDGE BTS.

Steps

1. **Select Commissioning on the Flexi EDGE BTS Manager's View Bar to start the Commissioning Wizard.**

   Select the **Commission from EasyWizard template file** option. Browse for the correct Hardware and Transmission files by selecting the **Browse** options. Click **Next**.

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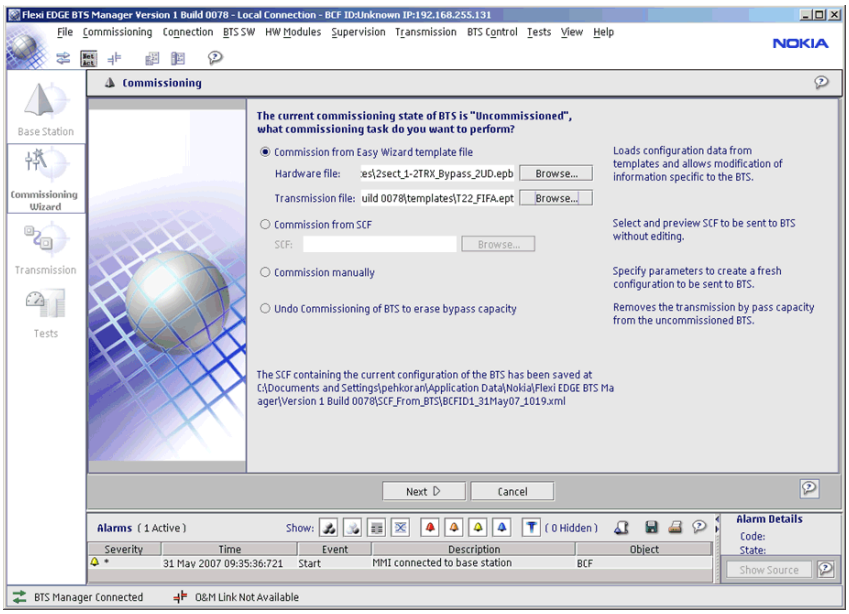
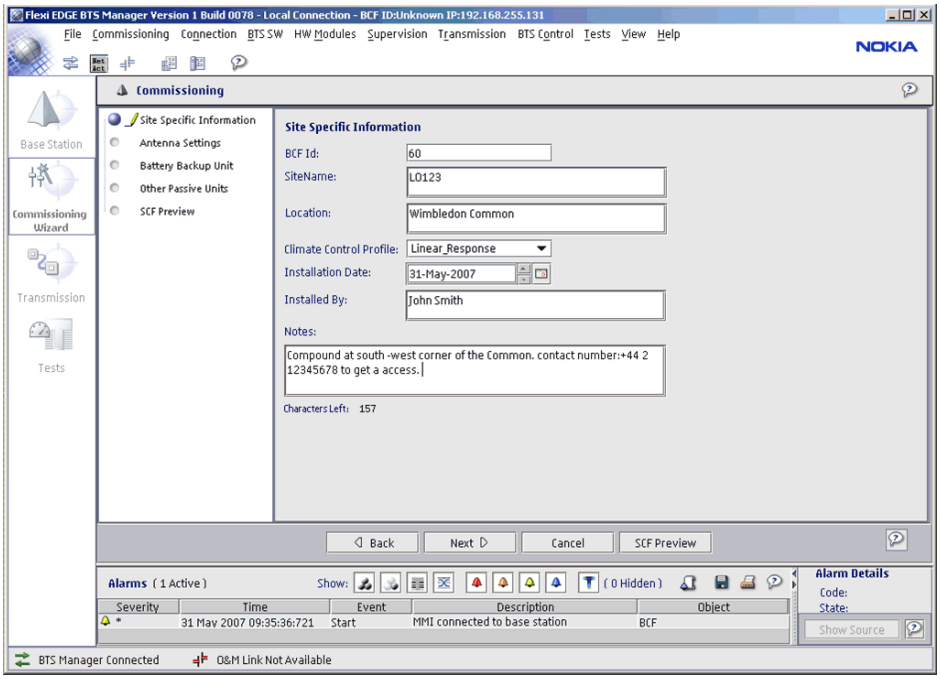


Enter the site specific information, and click **Next**.



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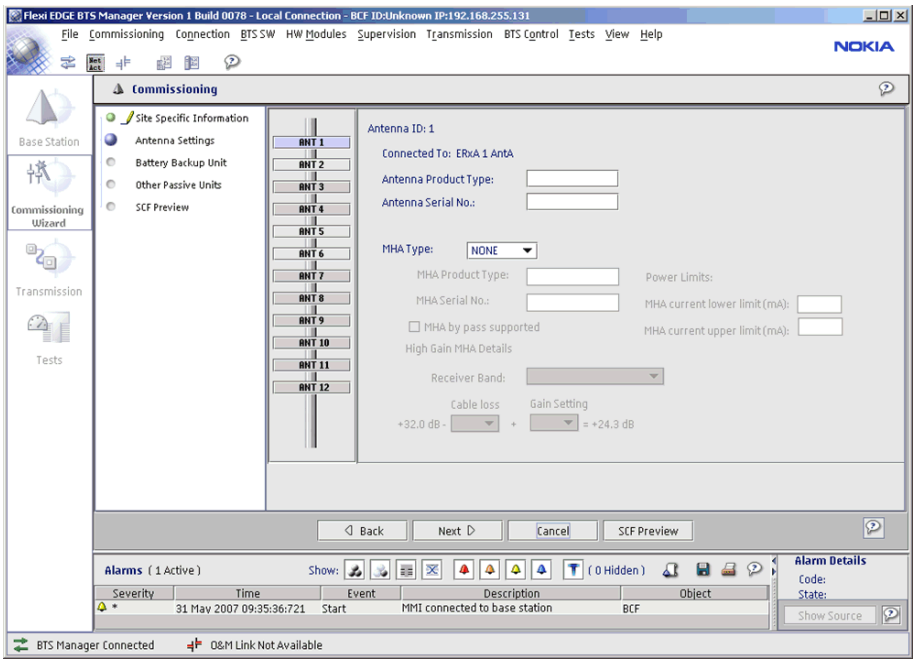
Enter the antenna settings, and define the MHA settings if MHAs are used. Click **Next**.



Enter the battery backup unit parameters, and click **Next**.

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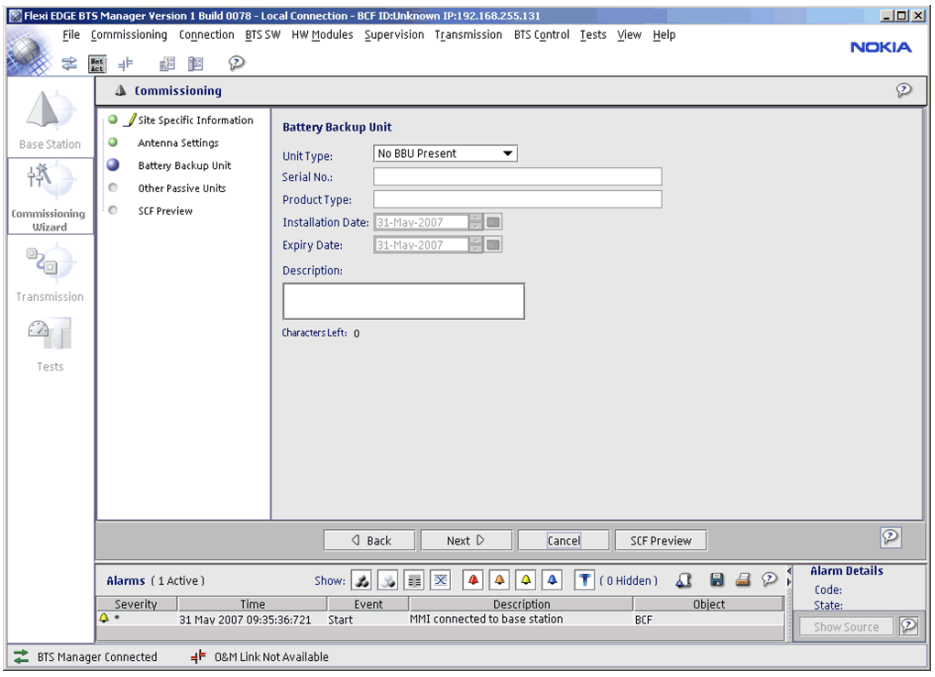
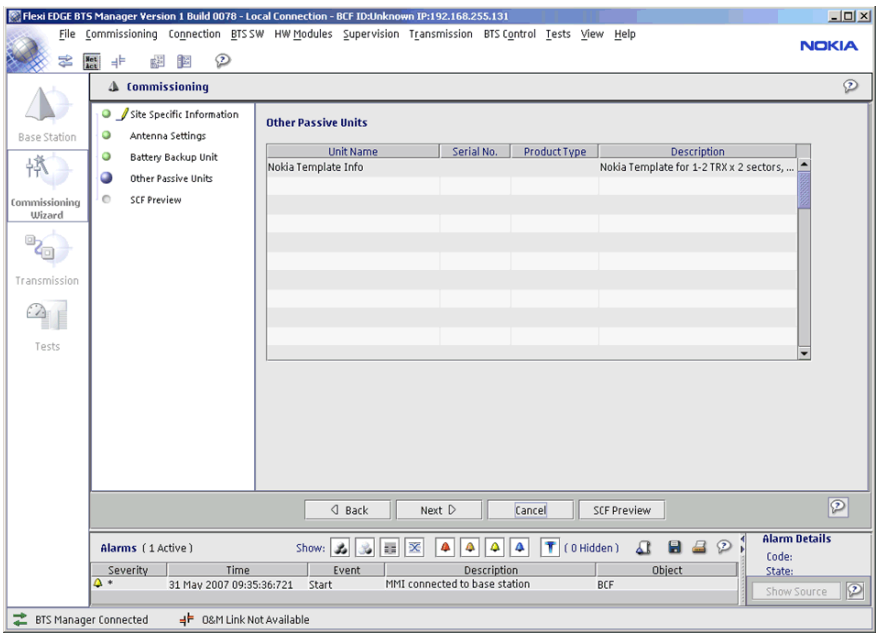


Enter the passive unit parameters, and click **Next**.



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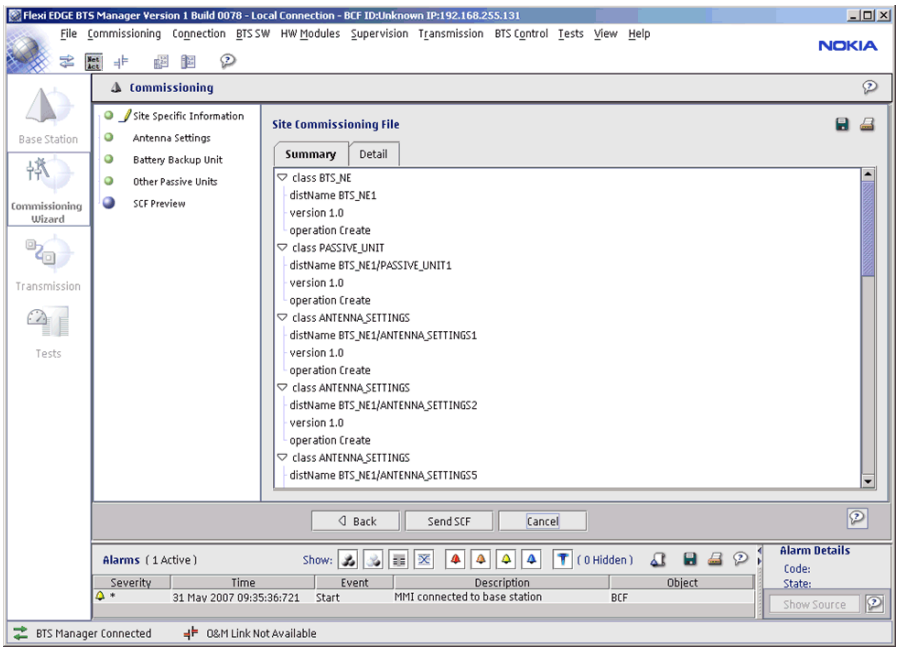
Check that the parameters are according to the plan, and click **Send SCF** to send the settings to the BTS.



After the BTS has been successfully commissioned, save the commissioning report and click **Finish**.

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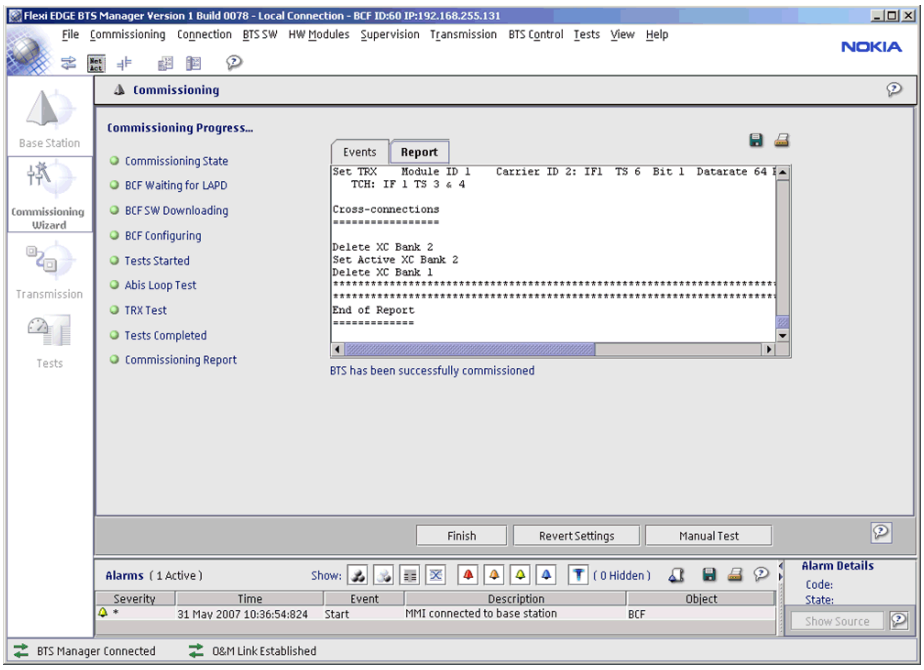

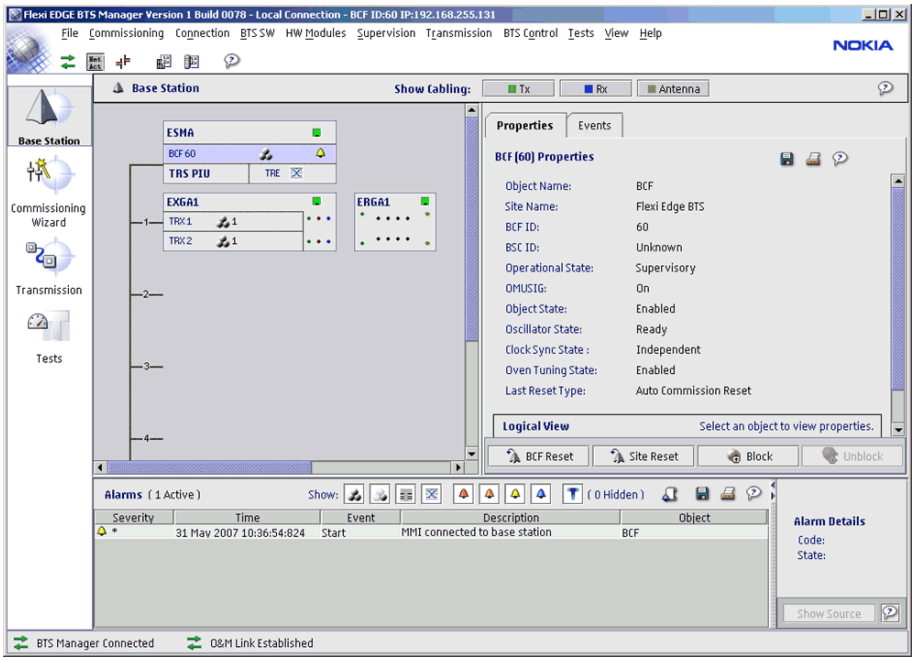

Figure 2. The Flexi EDGE BTS Manager main view after successful commissioning.

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