NOKIA

Cellular Transmission
FIU-19

Customer confidential
04/10/2005

External alarm implementation in FIU-19

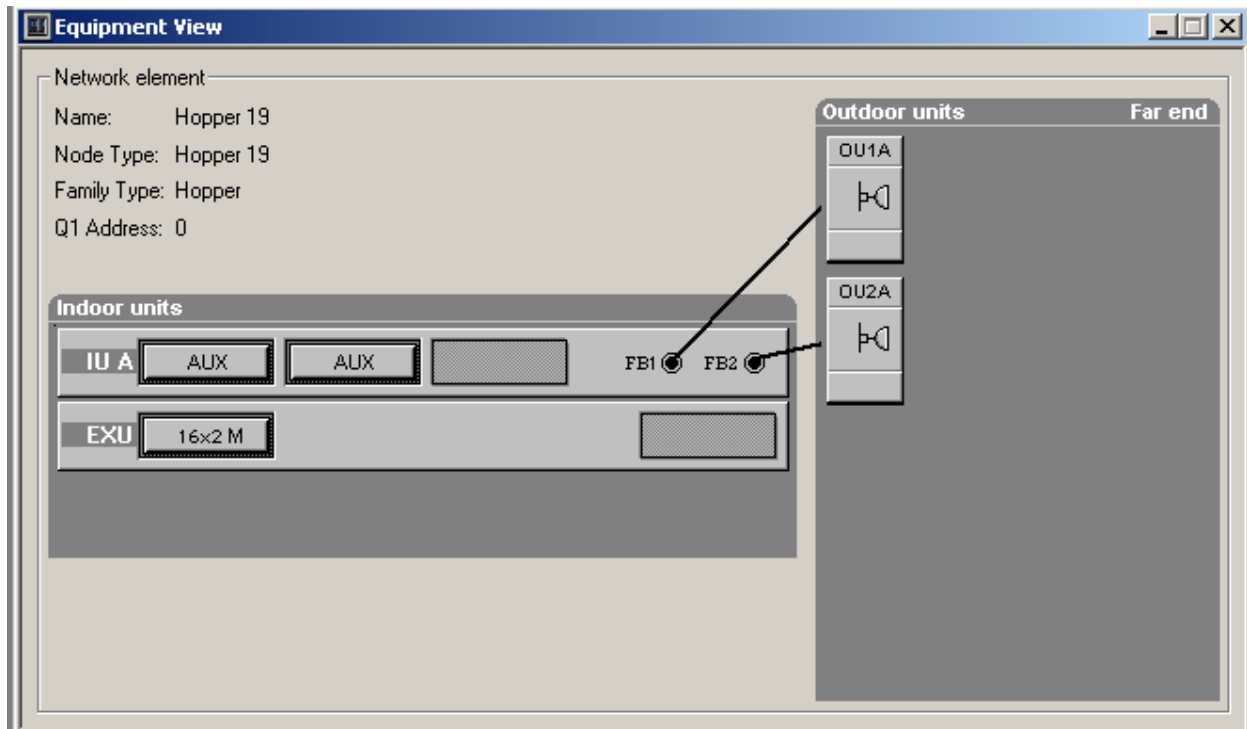## To implement the External alarms in FIU 19 the AUX DATA PIU is needed.

1. Flexihopper IU (FIU19) (AUX data Plug-in Unit)

Code – T55223.01

AUX DATA PIU installation:-

1. **Insert the PIU and commission the FIU as it will detect and show you the AUX DATA card as shown in the picture below.**

Alarm Configuration:-

1. **On the Hopper Manager menu, select Alarms → Fault settings**

   The Fault Settings dialogue box opens.

2. **Select the Aux Plug-in I/O Line Settings tab**

3. **Set the I/O line configuration**

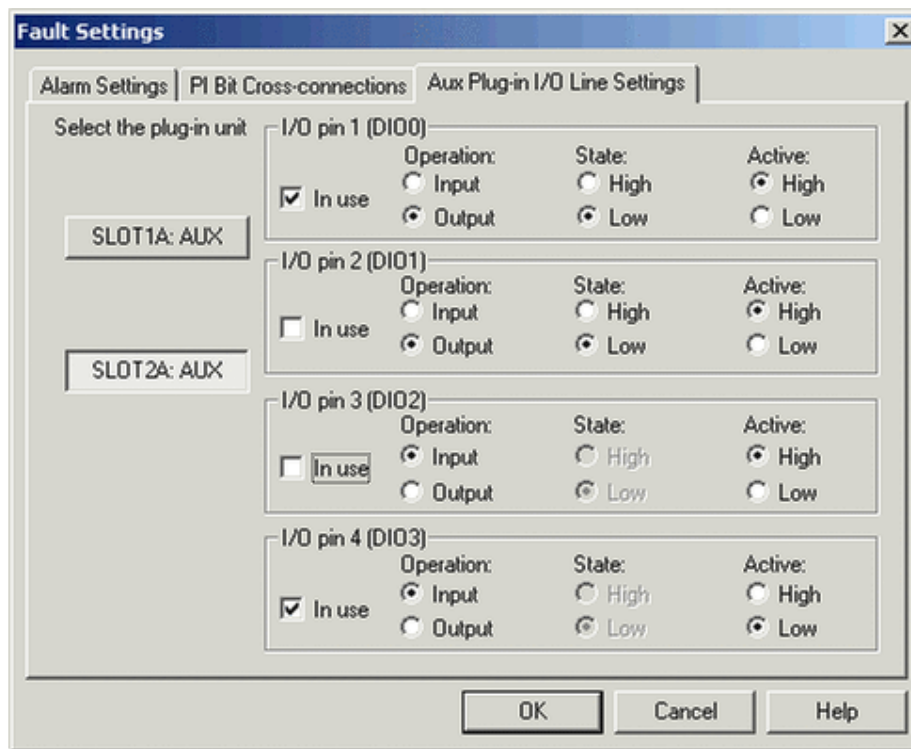   **Select the appropriate Aux data plug-in unit by clicking the button on the left in the dialogue box.**

Figure: Input/output settings in the Fault Settings dialogue box

There is one button for each present Aux data plug-in unit.

When an Aux data plug-in unit is selected, the rest of the page displays all the I/O line settings for that plug-in unit. These settings can then be modified as required.

Each I/O line must be configured correctly, which means that it must have a normal and an active state set. The normal state is configured under the State and the active under the Active setting. There are High and Low options for each.

4.**Configure the settings of the selected I/O pin**

Configure the following settings:

o **In use**

o **Input operation**

o **Input/output polarity active high or low.**

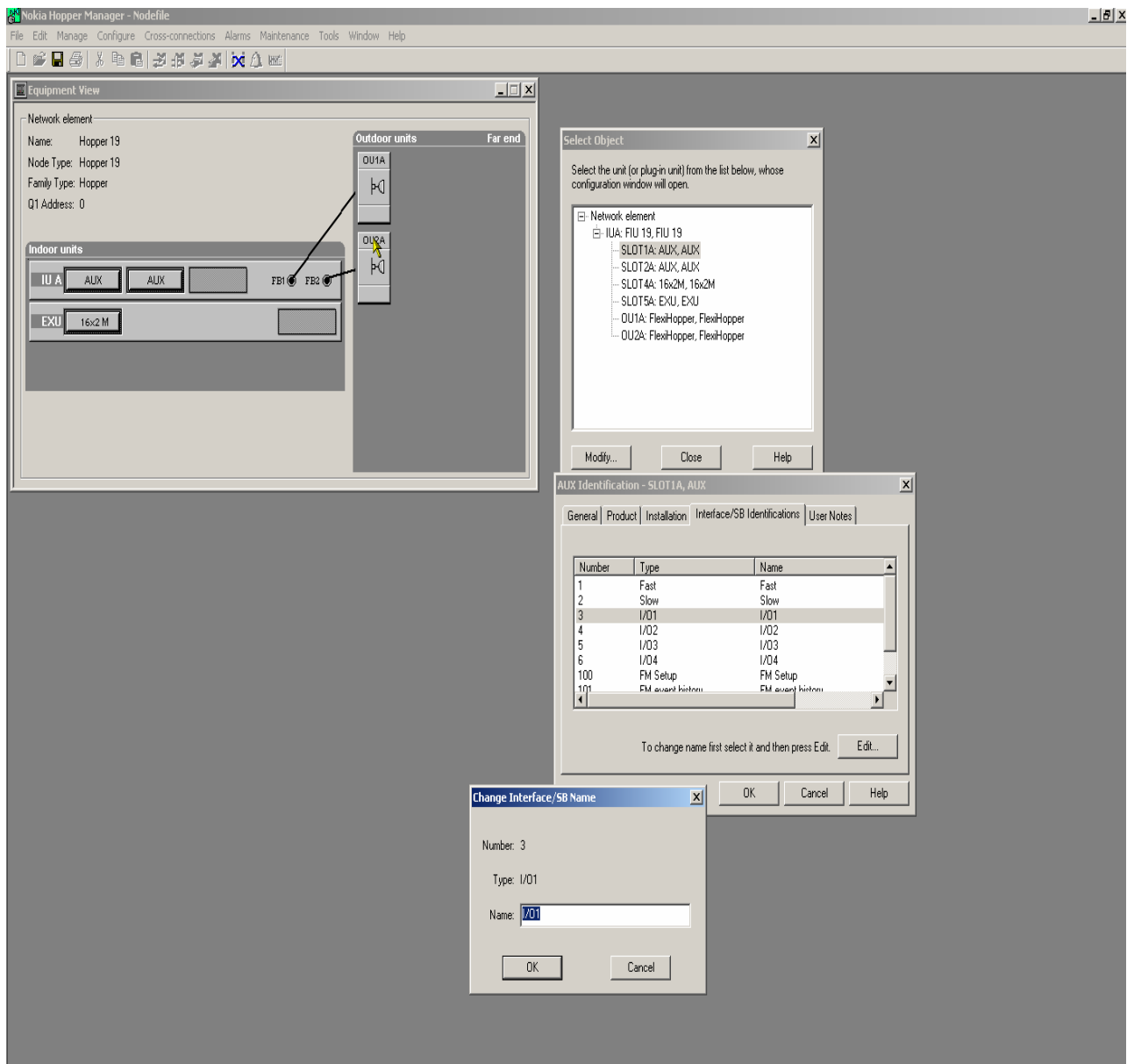**The I/O pins are DIO0..3 in TTL level input use.**

Note
The alarm appears, for example, as SLOT1A:AUX I/O1 Active alarm point.

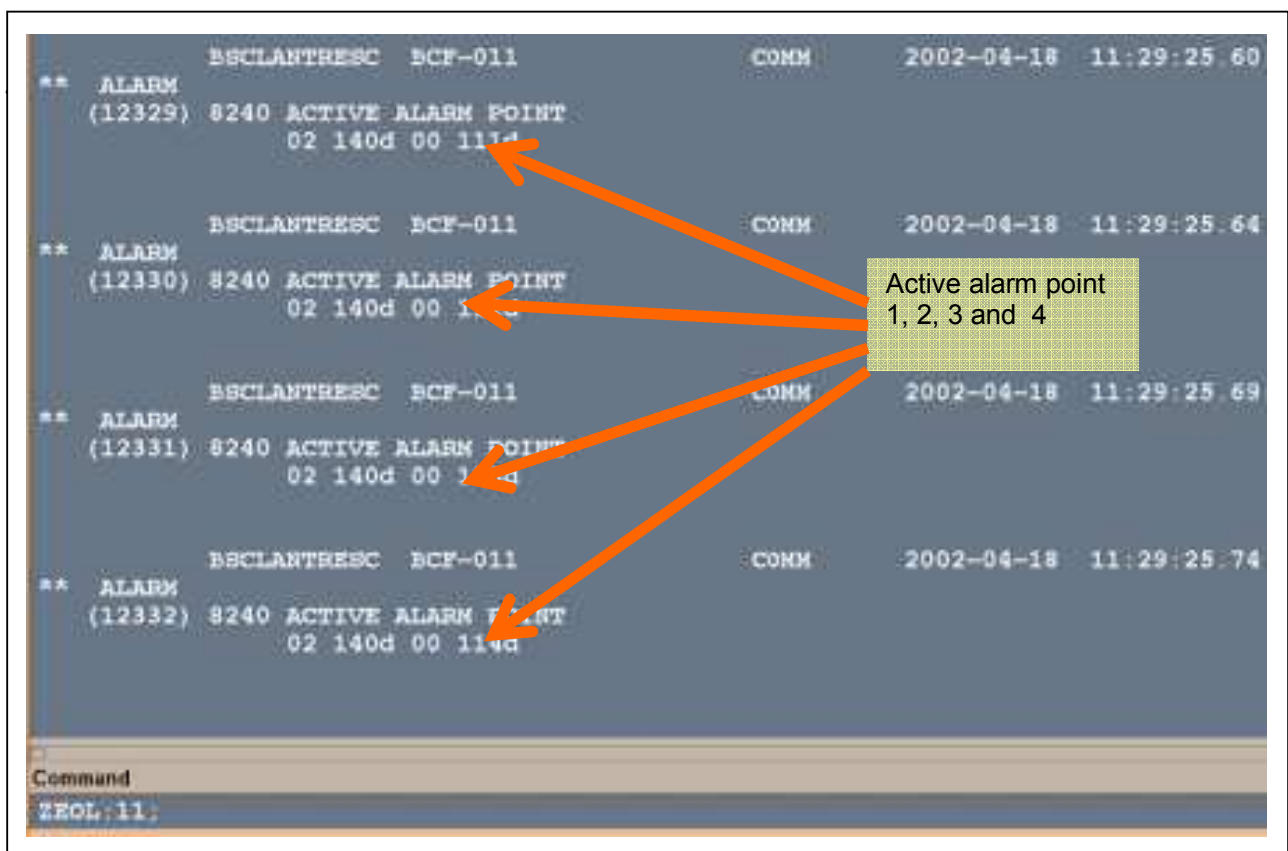5 .**Click OK to send the changes to the node.**

**6   On the Hopper Manager menu, select Config →
       Identification→AUX→Interface –SB identifications.**

7   Select I/O 1 to I/O 4 and click Edit it will open a dialog Box.

8   Edit the text to what you want to be printed in the Alarm window.

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Format of the Alarms in the BSC alarm printout.

For FIU-19 following will be the value of the fourth supplementary field.
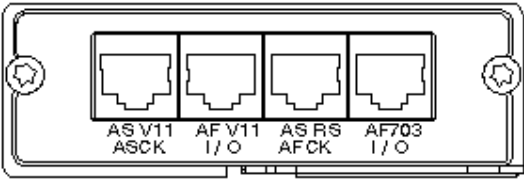
3d= active alarm point 1

4d= active alarm point 2

5d= active alarm point 3

6d= active alarm point 4

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Following will be the connection diagram for AUX data Unit.

Interface	Pin	Pin name	Signal / direction
AS V11 ASCK	1	Ground	
	2	ASOUTP	V.11 (Aux slow RX +) / out +
	3	ASOUTN	V.11 (Aux slow RX -) / out -
	4	ASINP	V.11 (Aux slow TX +) / in +
	5	ASINN	V.11 (Aux slow TX -) / out -
	6	ASRXCKP	V.11 (Aux slow clock RX direction) / out
	7	ASTXCKP	V.11 (Aux slow clock TX direction) / out
	8	DOUT0	+/- Relay control / out
AF V11 I/O	1	Ground	
	2	AFOUTP	V.11 (Aux fast RX +) / out +
	3	AFOUTN	V.11 (Aux fast RX -) / out -
	4	AFINP	V.11 (Aux fast TX +) / in +
	5	AFINN	V.11 (Aux fast TX -) / in -
	6	DIO0	Digital I/O (TTL) /in/out
	7	DIO1	Digital I/O (TTL) /in/out
	8	DOUT1	+/- Relay control / out
AS RS AFCK	1	Ground	
	2	AFTXCKP	V.11 (Aux fast TX direction +) / in +
	3	AFTXCKN	V.11 (Aux fast TX direction -) / in -
	4	AFRXCKP	V.11 (Aux fast RX direction +) / out +
	5	AFRXCKN	V.11 (Aux fast RX direction -) / out -
	6	RXD232	RS-232 (aux slow RX) / out
	7	TXD232	RS-232 (aux slow TX) / in
	8	DOUT2	+/- Relay control / out
AF 703 I/O	1	Ground	
	2	703RXP	G.703 RX 64 kbit/s, coding HDB3 +) / out +
	3	703RXN	G.703 RX 64 kbit/s, coding HDB3 -) / out -
	4	703TXP	G.703 TX 64 kbit/s, coding HDB3 +) / in +
	5	703TXN	G.703 TX 64 kbit/s, coding HDB3 -) / in -
	6	DIO2	Digital I/O (TTL) / in/out
	7	DIO3	Digital I/O (TTL) / in/out
	8	DOUT3	+/- Relay control / out

Cable Code- T55252.02.

In case of 12 E1 IDU the capacity will be reduced to 8 E1 dropping capacity if one AUX DATA PIU is used.