CHECKLIST FOR EUROVISION HYPERMUX RECEPTION

To correctly receive the encrypted Eurovision Hypermuxes

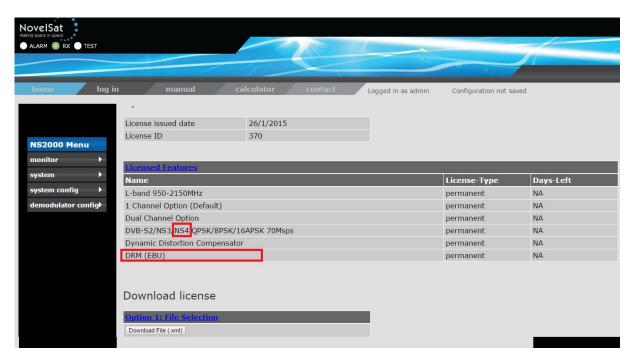
a) The firmware version should be 6.1 as shown below - check under the menu System>HW/SW version



If version is 5.7, the unit must be upgraded to 6.1

If version is lower than 5.7, the unit must be upgraded first to 5.7; then 6.1. For questions, please contact ns3upgrade@eurovision.net

b) Verify that demodulators have an NS4 and DRM(EBU) license as shown below - check under System>License



If the demodulator does not have the licenses highlighted above, please contact ns3upgrade@eurovision.net

In either case, please specify your demodulator serial number(s) and which licenses are needed (DRM, NS4 or both). The demodulator serial number is in the S/N field as shown below in the **System > SW/HW versions**

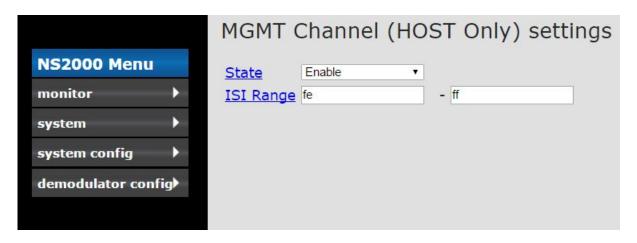


Verify the demodulator is locked on Hypermux
 Verify reception parameters in the demodulator config > Line (see Appendix 1):

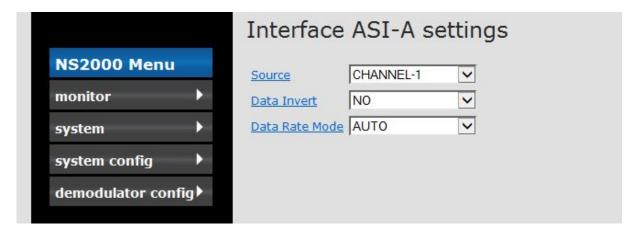
demodulator config > channel 1



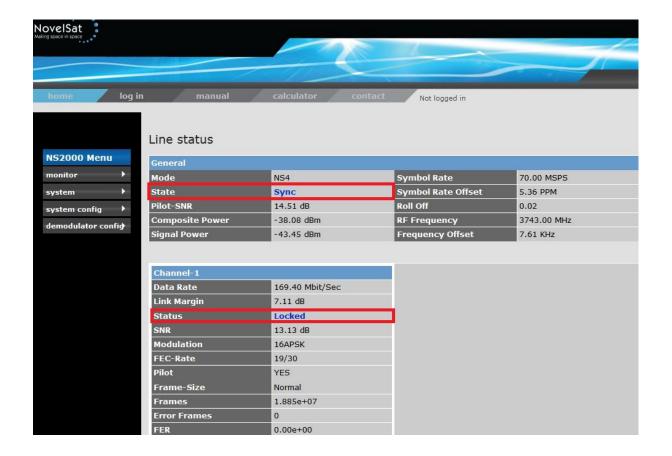
demodulator config > MGMT channel



demodulator config > interface > ASI > ASI-A



These parameters should give you a lock on the Hypermux. Verify this on the menu **monitor > line** which should show a lock on the following parameters



d) If you have completed these steps and are locked on the Hypermux, please send a message to <u>ns3upgrade@eurovision.net</u> with your company name and a request to send .gpg and aes keys

These keys are required to decrypt the multiplex.

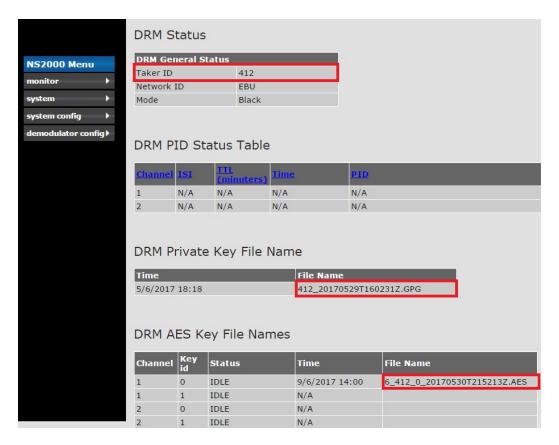
Always communicate your devices' S/N (serial number) in your e-mail. The S/N can be found under *System > HW/SW* versions as shown below:



e) Verify the AES and GPG keys have been received by your demodulators in the Monitor > DRM

Please verify:

- Taker ID is a number, not zero (0)
- A file .GPG is in DRM Private Key File Name
- A file .AES is in DRM AES Key File Names

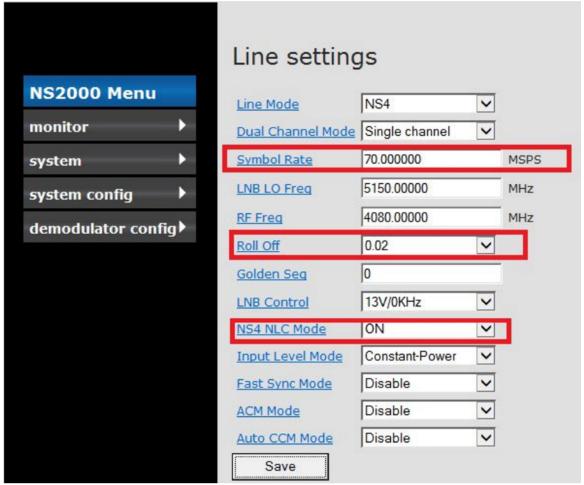


Please contact ns3upgrade@eurovision.net if you do not receive the keys.

APPENDIX 1: RF PARAMETERS FOR HYPERMUXES

A. Asia: HM1, AS5 100.5°E, txp C11V

Web page of NS2000: menu *demodulator config > line*:

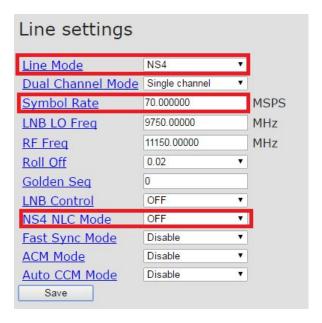


Please verify that **NS4 NLC Mode** is **ON**.

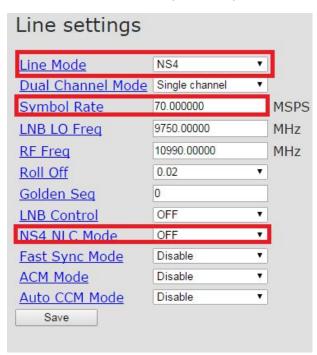
The parameters **LNB LO Freq** and **LNB Control** depend on your individual installation. The illustration is only an example.

B. Europe and Middle East: HM3, ABS-3A 3°W, txp S3 and S7

Web page of NS2000: menu *demodulator config > line*:



Parameters for txp S3 (Europe)

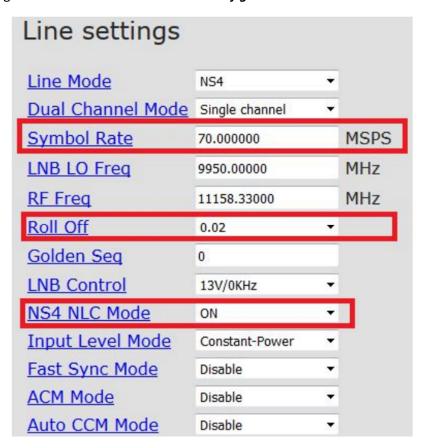


Parameters for txp S7 (Middle East and Northern Africa)

Please verify that **NS4 NLC Mode** is **OFF**.

The parameters **LNB LO Freq** and **LNB Control** depend on your individual installation. The illustrations are only examples.

C. Europe, Middle East and Northern Africa: HM4, Eutelsat 7B, 7°E, txp B5 Web page of NS2000: menu demodulator config > line:

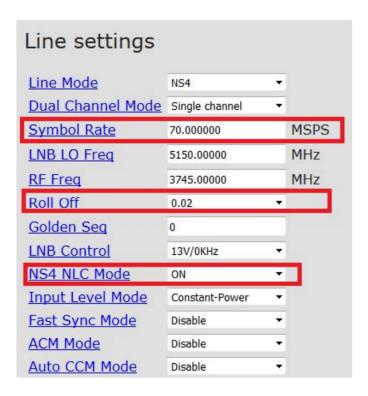


Please verify that **NS4 NLC Mode** is **ON**.

The parameters **LNB LO Freq** and **LNB Control** depend on your individual installation. The illustrations are only examples.

D. Americas: HM5, IS-34 304.5°E, txp AE1C

Web page of NS2000: menu *demodulator config > line*:



Please verify that NS4 NLC Mode is ON.

The parameters **LNB LO Freq** and **LNB Control** depend on your individual installation. The illustrations are only examples.