NV-802S Band Profile / Band Plan Configuration Guide

This guide configures the VDSL2 Profile / Band Plan / Tone Mode.

For this function, NV-802S provides world wide telecom standard band plan, such as meet European telecom standard band plan 998(17a), USA telecom standard band plan 997(8a, 8b) and APAC Telecom standard band plan (30a) etc.

- **Annex A** specifies band plans for the North American region and enables NV-802S to be deployed with traditional POTS telephony or in an all-digital mode.
- **Annex B** specifies band plans for Europe and enables NV-802S deployment with underlying POTS and ISDN services.
- **Annex C** allows NV-802S to coexist with TCM-ISDN services, found primarily in APAC.

NV-802S has numerous configuration profiles and band plans to meet regional service provider requirements. The frequency bandwidth has increased to 30 MHz, with configuration options at 8.5 MHz, 12 MHz, 17.7 MHz and 30 MHz.

Band profile and band plan can only be configured at NV-802S as NV-600R wills auto-follow up on the settings of NV-802S. The only thing that NV-600R must be configured so that the routers will link is the tone mode. However, the default tone mode for NV-802S / NV-600R is V43, so at default there's no need to change the tone mode unless it is required by the telecom companies to use different tone mode. Another important thing is that band profile and band plan setting must be compatible to each other if not access error will show when applied. Please deactivate and activate once the setting has been changed.

Default plan profile and band plan = 30a and C8K

VDSL2 Profile Config

Port	Profile	Band Plan	Tone Mode
Port 1 ▲ Port 2 Port 3 Port 4 ▼	Vdsl2 Profile30a ▼	Annex C_8K ▼	V43 ▼

Apply

Port	Profile	Band Plan	Tone Mode
1	30A	Annex C_8K	V43
2	30A	Annex C_8K	V43
3	30A	Annex C_8K	V43
4	30A	Annex C_8K	V43
5	30A	Annex C_8K	V43
6	30A	Annex C_8K	V43
7	30A	Annex C_8K	V43
8	30A	Annex C_8K	V43

VDSL2 Profile Configuration

The following shows the band profile and band plan compatibility:

	Band Profile List		Band Plan List
A0	VDSL2 Profile8a	B0	Annex A M1_EU32
A1	VDSL2 Profile8b	B1	Annex A M9_EU64
A2	VDSL2 Profile8c	B2	Annex A EU128
A3	VDSL2 Profile8d	B3	Annex B 997-M1c-A-7
A4	VDSL2 Profile12a	B4	Annex B 997-M2x-A
A5	VDSL2 Profile12b	B5	Annex B 997-M2x-M
A6	VDSL2 Profile17a	B6	Annex B 998-M1x-A
A7	VDSL2 Profile30a	B7	Annex B 998-M1x-B
A8	VDSL2 Profile17b	B8	Annex B 998-M2x-A
		B9	Annex B 998-M2x-M
		B10	Annex B 998-M2x-B
		B11	Annex B 998-M2x-NUS0
		B12	Annex B 998e17-M2x-NUS0
		B13	Annex B 998ADE17-M2x-A
		B14	Annex B 998ADE30-M2x-NUS0-A
		B15	Annex C_A
		B16	Annex C_M
		B17	Annex C_8K

NV-802S with NV-600R/NV-600RI Compatibility table:

The following table shows the band profile and band plan compatibility.

Band Profile \ Band Plan	B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17
A0	O	O	O	X	X	X	X	O	X	X	O	O	X	X	X	X	X	X
A1	O	O	O	X	X	X	X	O	X	X	O	O	X	X	X	X	X	X
A2	O	O	O	X	X	X	X	O	X	X	O	O	X	X	X	X	X	O
A3	O	O	O	X	X	X	X	O	X	X	O	O	X	X	X	X	X	X
A4	O	O	O	X	X	X	X	O	X	X	O	X	X	X	X	X	X	X
A5	O	O	O	X	O	O	X	O	X	O	X	O	X	X	X	O	O	O
A6	O	O	O	X	X	X	X	X	X	X	X	X	O	O	O	O	O	X
A7	O	X	O	X	X	X	X	X	X	X	X	X	X	X	O	X	X	O
A8	O	O	O	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X

Note: O = Compatible; X = Not Compatible

NV-802S with NV-202/NV-202P/NV-500 Compatibility table:

The following table shows the band profile and band plan compatibility.

Band Profile \ Band Plan	B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17
A0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A3	X	O	X	X	X	X	X	X	X	X	O	O	X	X	X	X	X	X
A4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A5	O	O	O	X	O	O	X	O	X	O	X	O	X	X	X	O	O	O
A6	O	O	O	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O
A7	O	X	O	X	X	X	X	X	X	X	X	X	X	X	O	X	X	O
A8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Note: O = Compatible; X = Not Compatible

NV-802S with NV-600A/NV-600AI/NV-600W/NV-600WI Compatibility table:

The following table shows the band profile and band plan compatibility.

Band Profile \ Band Plan	B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17
A0	O	O	O	X	X	X	X	O	X	X	O	O	X	X	X	X	X	X
A1	O	O	X	X	X	X	X	O	X	X	O	O	X	X	X	X	X	X
A2	O	O	O	X	X	X	X	O	X	X	O	O	X	X	X	X	X	O
A3	O	O	O	X	X	X	X	O	X	X	O	O	X	X	X	X	X	X
A4	O	O	O	X	X	X	X	O	X	X	O	X	X	X	X	X	X	X
A5	O	O	O	X	O	O	X	O	X	O	X	O	X	X	X	O	O	O
A6	O	O	O	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O
A7	O	X	O	X	X	X	X	X	X	X	X	X	X	X	O	X	X	O
A8	O	O	O	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X

Note: O = Compatible; X = Not Compatible

This function is for Activate / Deactivate VDSL2 port

VDSL2 Port Activate / Deactivate

Port	Activate
Port 1 ▲ Port 2 Port 3 Port 4 ▼	Activate ▼

Apply

Port	Activate
1	Activate
2	Activate
3	Activate
4	Activate
5	Activate
6	Activate
7	Activate
8	Activate

Notes:
1. Please note that do not configure multiple different band profile and band plan within 8 VDSL2 ports, this behavior can cause serious crosstalk.
2. Please note that you must deactivate then activate once on configuration ports when you configure VDSL2 configuration.
3. If VDSL2 port link does not established, please check the tone mode whether is the same, if the same, Deactivate the VDSL2 port of disconnect, and then activate it.
4. If VDSL2 port link does not established when user has selected the activate field and press "apply" button, please press "apply" button again.
5. Please note that every time has only configure two ports, please select and press "apply" button.