# 35- XDSL Bonding Configuration Commands

# 35.1 XDSL Bonding Configuration Command Tree

## Description

This chapter gives an overview of nodes that are handled by "XDSL Bonding Configuration Commands".

## Command Tree

**----configure**
**----xdsl-bonding**
- group-assembly-time
- [no] ptm-init-mode

**----[no] group-profile**
- **(index)**
- name
- (scope)
- version
- [no] min-bitrate-up
- [no] min-bitrate-down
- [no] plan-bitrate-up
- [no] plan-bitrate-down
- [no] max-bitrate-up
- [no] max-bitrate-down
- [no] max-delay-down
- [no] max-delay-up
- [no] imp-noise-prot-dn
- [no] imp-noise-prot-up
- [no] delay-opt-mode-ds
- [no] grp-assembly-time
- [no] active

**----[no] group-rtx-profile**
- **(index)**
- name
- version
- [no] rtx-mode-dn
- [no] rtx-mode-up
- [no] min-exp-thrpt-dn
- [no] min-exp-thrpt-up
- [no] plan-exp-thrpt-dn
- [no] plan-exp-thrpt-up
- [no] max-exp-thrpt-dn
- [no] max-exp-thrpt-up
- [no] max-net-rate-dn
- [no] max-net-rate-up
- [no] min-delay-dn
- [no] min-delay-up
- [no] max-delay-dn
- [no] max-delay-up
- [no] min-inp-shine-dn
- [no] min-inp-shine-up
- [no] min-inp-rein-dn
- [no] min-inp-rein-up
- [no] int-arr-time-dn

- [no] int-arr-time-up
- [no] shine-ratio-dn
- [no] shine-ratio-up
- [no] leftr-thresh-dn
- [no] leftr-thresh-up
- [no] active

**----group**

**- (bonding-group-idx)**
- [no] group-profile
- [no] group-rtx-profile

**X** [no] admin-up
- [no] up

**----[no] link**

**- (bonding-link-id)**

**----board**

**- (board-index)**

**----vect-fallback**

- [no] group-profile
- [no] group-rtx-profile

# 35.2 XDSL Bonding Assembly Level Configuration Command

## Command Description

*This node provides the system-level provisioning of the bonding group assembly timeout and PTM bonding group initialization mode.*

*Bonding group assembly timeout: Default value is zero ('0', represents an infinite time ), and will have as consequence that the bonding group will not come up till all lines in this bonding group are up. This parameter may be overruled by the grp-assembly-time parameter on bonding group-profile level. This parameter will be ignored for PTM bonding group initialization mode2.*

*PTM bonding group initialization mode: Default value is mode1 (Double initialization with probe-training). When no bonding groups(ATM/PTM) are configured in the system, the new initialization mode will be effective on the system immediately. When bonding groups(ATM/PTM) are configured already in the system,the Mode switching request should be followed by an 'NT Reset' request, to make the new initialization mode effective on the system. PTM BGs, that are operational up while changing the PTM Bonding Init Mode, will stay operational up till an 'NT Reset' is requested. After execution of the 'NT Reset', these PTM BGs will retrain in the newly configured mode and hence suffer a significant service impact.*

## User Level

*The command can be accessed by operators with xdsl privileges, and executed by operators with xdsl privileges.*

## Command Syntax

The command has the following syntax:

> configure xdsl-bonding group-assembly-time <Xdsl::SignedIntegerSEC> [ no ptm-init-mode | ptm-init-mode <Xdsl::BondingInitMode> ]

## Command Parameters

**Table 35.2-2 "XDSL Bonding Assembly Level Configuration Command" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| group-assembly-time | Parameter type: <Xdsl::SignedIntegerSEC><br>Format:<br>- second<br>- unit: sec<br>- range: [0...65535] | *optional parameter*<br>Max waiting period for group to become operational |
| [no] ptm-init-mode | Parameter type: <Xdsl::BondingInitMode><br>Format:<br>( mode1<br>\| mode2 )<br>Possible values:<br>- mode1 : Double initialization with probe-training<br>- mode2 : Single initialization without probe-training | *optional parameter with default value: "mode1"*<br>PTM bonding group initialization mode |

# 35.3 xDSL Bonding Group Profile Configuration Command

## Command Description

*This command allows to manage the xDSL bonding group profile. A profile can be created in one step with all the necessary parameters and making it active. It can also be created in several steps by specifying a few parameters in each step and make the profile active in the last step.*

*DESCRIPTION FOR THE COMMAND PARAMETER-SCOPE:The combination scope+profile must be unique.Typically local-profile must be used especially when configuring via CLI.Use of network-profile is depreciated.The network-profile was foreseen to allow management agents to define network-wide unique profiles,independent of what local profiles may have been created.*

*The command parameters delay-opt-mode-ds and grp-assembly-time will be ignored for PTM bonding group initialization mode2.*

## User Level

*The command can be accessed by operators with xdsl privileges, and executed by operators with xdsl privileges.*

## Command Syntax

The command has the following syntax:

> configure xdsl-bonding ( no group-profile (index) ) | ( group-profile (index) name <AsamProfileName> (scope) version <SignedInteger> [ no min-bitrate-up | min-bitrate-up <Xdsl::BondingBitRate> ] [ no min-bitrate-down | min-bitrate-down <Xdsl::BondingBitRate> ] [ no plan-bitrate-up | plan-bitrate-up <Xdsl::BondingBitRate> ] [ no plan-bitrate-down | plan-bitrate-down <Xdsl::BondingBitRate> ] [ no max-bitrate-up | max-bitrate-up <Xdsl::BondingBitRate> ] [ no max-bitrate-down | max-bitrate-down <Xdsl::BondingBitRate> ] [ no max-delay-down | max-delay-down <Xdsl::InterleavingDelay> ] [ no max-delay-up | max-delay-up <Xdsl::InterleavingDelay> ] [ no imp-noise-prot-dn | imp-noise-prot-dn <Xdsl::ImpNoiseProtection> ] [ no imp-noise-prot-up | imp-noise-prot-up <Xdsl::ImpNoiseProtection> ] [ no delay-opt-mode-ds | delay-opt-mode-ds <Xdsl::BondingGroupDelayOptimMode> ] [ no grp-assembly-time | grp-assembly-time <Xdsl::BondingGroupProfileAssemblyTimer> ] [ [ no ] active ] )

## Command Parameters

**Table 35.3-1 "xDSL Bonding Group Profile Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (index) | Format:<br>- bonding group profile index<br>- range: [1...100] | index of the profile |

**Table 35.3-2 "xDSL Bonding Group Profile Configuration Command" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| name | Parameter type: <AsamProfileName><br>Format: | *mandatory parameter*<br>name of the profile |

| Parameter | Type | Description |
|---|---|---|
| | - a profile name<br>- range: [a-zA-Z0-9-_.]<br>- length: 1<=x<=32 | |
| (scope) | Format:<br>( local-profile<br>\| network-profile )<br>Possible values:<br>- local-profile : the local profile<br>- network-profile : the network profile | *mandatory parameter*<br>scope of the profile |
| version | Parameter type: <SignedInteger><br>Format:<br>- a signed integer | *mandatory parameter*<br>version maintained by manager, usually 1 for new profile |
| [no] min-bitrate-up | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 64*<br>minimum upstream bit rate to be maintained |
| [no] min-bitrate-down | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 1024*<br>minimum downstream bit rate to be maintained |
| [no] plan-bitrate-up | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 128*<br>planned bitrate in upstream |
| [no] plan-bitrate-down | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 1536*<br>planned bitrate in downstream |
| [no] max-bitrate-up | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 640*<br>maximum bitrate in upstream |
| [no] max-bitrate-down | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 6144*<br>maximum bitrate in downstream |
| [no] max-delay-down | Parameter type: <Xdsl::InterleavingDelay><br>Format:<br>- a delay time period<br>- unit: msec<br>- range: [1...63] | *optional parameter with default value: 16*<br>maximum delay for interleaving function in downstream |
| [no] max-delay-up | Parameter type: <Xdsl::InterleavingDelay><br>Format:<br>- a delay time period<br>- unit: msec<br>- range: [1...63] | *optional parameter with default value: 16*<br>maximum delay for interleaving function in upstream |
| [no] imp-noise-prot-dn | Parameter type: <Xdsl::ImpNoiseProtection><br>Format:<br>- minimum impulse noise protection<br>- unit: 1/10 symbols<br>- range: [0...160] | *optional parameter with default value: 0*<br>minimum impulse noise protection in downstream |

| Parameter | Type | Description |
|---|---|---|
| [no] imp-noise-prot-up | Parameter type: <Xdsl::ImpNoiseProtection><br>Format:<br>- minimum impulse noise protection<br>- unit: 1/10 symbols<br>- range: [0...160] | *optional parameter with default value: 0*<br>minimum impulse noise protection in upstream |
| [no] delay-opt-mode-ds | Parameter type: <Xdsl::BondingGroupDelayOptimMode><br>Format:<br>( none<br>\| by-co<br>\| by-cpe )<br>Possible values:<br>- none : no downstream delay optimization<br>- by-co : the downstream optimization is done by the co<br>- by-cpe : the downstream optimization is done by the cpe(option not yet supported) | *optional parameter with default value: "none"*<br>identifies the mode of the downstream delay optimization |
| [no] grp-assembly-time | Parameter type: <Xdsl::BondingGroupProfileAssemblyTimer><br>Format:<br>( infinity<br>\| <Xdsl::BondingAssemblyTimer><br>\| use-system )<br>Possible values:<br>- infinity : wait forever, special value 0<br>- use-system : use system wide parameter, special value 65535<br>Field type <Xdsl::BondingAssemblyTimer><br>- value of the assembly timer<br>- unit: sec<br>- range: [1...65534] | *optional parameter with default value: "use-system"*<br>Max waiting period for group to become operational |
| [no] active | Parameter type: boolean | *optional parameter*<br>to activate the profile |

# 35.4 xDSL Bonding Group Rtx Profile Configuration Command

## Command Description

*This command allows the operator to configure the bonding group RTX profile which can be used to configure the modem for each contributing physical line of the bonding group*

*RTX downstream/upstream parameters will have effect on lines supporting RTX, only when the retransmission feature in downstream/upstream is not "forbidden"*

## User Level

*The command can be accessed by operators with xdsl privileges, and executed by operators with xdsl privileges.*

## Command Syntax

The command has the following syntax:

> configure xdsl-bonding ( no group-rtx-profile (index) ) | ( group-rtx-profile (index) name <AsamProfileName> [ version <SignedInteger> ] [ no rtx-mode-dn | rtx-mode-dn <Xdsl::RtxMode> ] [ no rtx-mode-up | rtx-mode-up <Xdsl::RtxMode> ] [ no min-exp-thrpt-dn | min-exp-thrpt-dn <Xdsl::BondingBitRate> ] [ no min-exp-thrpt-up | min-exp-thrpt-up <Xdsl::BondingBitRate> ] [ no plan-exp-thrpt-dn | plan-exp-thrpt-dn <Xdsl::BondingBitRate> ] [ no plan-exp-thrpt-up | plan-exp-thrpt-up <Xdsl::BondingBitRate> ] [ no max-exp-thrpt-dn | max-exp-thrpt-dn <Xdsl::BondingBitRate> ] [ no max-exp-thrpt-up | max-exp-thrpt-up <Xdsl::BondingBitRate> ] [ no max-net-rate-dn | max-net-rate-dn <Xdsl::BondingBitRate> ] [ no max-net-rate-up | max-net-rate-up <Xdsl::BondingBitRate> ] [ no min-delay-dn | min-delay-dn <Xdsl::RtxMinDelay> ] [ no min-delay-up | min-delay-up <Xdsl::RtxMinDelay> ] [ no max-delay-dn | max-delay-dn <Xdsl::RtxMaxDelay> ] [ no max-delay-up | max-delay-up <Xdsl::RtxMaxDelay> ] [ no min-inp-shine-dn | min-inp-shine-dn <Xdsl::ShineImpNoiseProtection> ] [ no min-inp-shine-up | min-inp-shine-up <Xdsl::ShineImpNoiseProtection> ] [ no min-inp-rein-dn | min-inp-rein-dn <Xdsl::ReinImpNoiseProtection> ] [ no min-inp-rein-up | min-inp-rein-up <Xdsl::ReinImpNoiseProtection> ] [ no int-arr-time-dn | int-arr-time-dn <Xdsl::RtxInterArrivalTime> ] [ no int-arr-time-up | int-arr-time-up <Xdsl::RtxInterArrivalTime> ] [ no shine-ratio-dn | shine-ratio-dn <Xdsl::RtxShineRatio> ] [ no shine-ratio-up | shine-ratio-up <Xdsl::RtxShineRatio> ] [ no leftr-thresh-dn | leftr-thresh-dn <Xdsl::RtxLeftrThreshold> ] [ no leftr-thresh-up | leftr-thresh-up <Xdsl::RtxLeftrThreshold> ] [ [ no ] active ] )

## Command Parameters

**Table 35.4-1 "xDSL Bonding Group Rtx Profile Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (index) | Format:<br>- a profile index value<br>- range: [1...128] | index of the profile |

**Table 35.4-2 "xDSL Bonding Group Rtx Profile Configuration Command" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| name | Parameter type: <AsamProfileName><br>Format:<br>- a profile name<br>- range: [a-zA-Z0-9-_.]<br>- length: 1<=x<=32 | *mandatory parameter*<br>profile name |
| version | Parameter type: <SignedInteger><br>Format:<br>- a signed integer | *optional parameter*<br>version maintained by manager, usually 1 for new profile |
| [no] rtx-mode-dn | Parameter type: <Xdsl::RtxMode><br>Format:<br>( forbidden<br>\| preferred<br>\| forced<br>\| testmode )<br>Possible values:<br>- forbidden : retransmission forbidden in down/upstream<br>- preferred : retransmission preferred in down/upstream<br>- forced : retransmission forced in down/upstream<br>- testmode : retransmission testmode in down/upstream | *optional parameter with default value: "preferred"*<br>retransmission mode in downstream |
| [no] rtx-mode-up | Parameter type: <Xdsl::RtxMode><br>Format:<br>( forbidden<br>\| preferred<br>\| forced<br>\| testmode )<br>Possible values:<br>- forbidden : retransmission forbidden in down/upstream<br>- preferred : retransmission preferred in down/upstream<br>- forced : retransmission forced in down/upstream<br>- testmode : retransmission testmode in down/upstream | *optional parameter with default value: "preferred"*<br>retransmission mode in upstream |
| [no] min-exp-thrpt-dn | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 64*<br>minimum expected throughput for downstream direction |
| [no] min-exp-thrpt-up | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 64*<br>minimum expected throughput for upstream direction |
| [no] plan-exp-thrpt-dn | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 128*<br>planned expected throughput for downstream direction |
| [no] plan-exp-thrpt-up | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 128*<br>planned expected throughput for upstream direction |
| [no] max-exp-thrpt-dn | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 2147483647*<br>maximum expected throughput for downstream direction |
| [no] max-exp-thrpt-up | Parameter type: <Xdsl::BondingBitRate><br>Format: | *optional parameter with default value: 2147483647* |

| Parameter | Type | Description |
|---|---|---|
| | - a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | maximum expected throughput for upstream direction |
| [no] max-net-rate-dn | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 2147483647*<br>maximum net data rate for downstream direction |
| [no] max-net-rate-up | Parameter type: <Xdsl::BondingBitRate><br>Format:<br>- a bonding bit rate value<br>- unit: kbps<br>- range: [0...2147483647] | *optional parameter with default value: 2147483647*<br>maximum net data rate for upstream direction |
| [no] min-delay-dn | Parameter type: <Xdsl::RtxMinDelay><br>Format:<br>- a delay time period<br>- unit: msec<br>- range: [0...63] | *optional parameter with default value: 0*<br>minimum instantaneous delay allowed (due to the effect of retransmission) for downstream direction |
| [no] min-delay-up | Parameter type: <Xdsl::RtxMinDelay><br>Format:<br>- a delay time period<br>- unit: msec<br>- range: [0...63] | *optional parameter with default value: 0*<br>minimum instantaneous delay allowed (due to the effect of retransmission) for upstream direction |
| [no] max-delay-dn | Parameter type: <Xdsl::RtxMaxDelay><br>Format:<br>- a delay time period<br>- unit: msec<br>- range: [2...63] | *optional parameter with default value: 12*<br>maximum instantaneous delay allowed(due to the effect of retransmission) for downstream direction Special value 0 means no delay bounds |
| [no] max-delay-up | Parameter type: <Xdsl::RtxMaxDelay><br>Format:<br>- a delay time period<br>- unit: msec<br>- range: [2...63] | *optional parameter with default value: 12*<br>maximum instantaneous delay allowed (due to the effect of retransmission) for upstream direction Special value 0 means no delay bounds |
| [no] min-inp-shine-dn | Parameter type: <Xdsl::ShineImpNoiseProtection><br>Format:<br>- minimum impulse noise protection<br>- unit: DMT symbols<br>- range: [0...63] | *optional parameter with default value: 8*<br>minimum impulse noise protection against shine for downstream direction |
| [no] min-inp-shine-up | Parameter type: <Xdsl::ShineImpNoiseProtection><br>Format:<br>- minimum impulse noise protection<br>- unit: DMT symbols<br>- range: [0...63] | *optional parameter with default value: 8*<br>minimum impulse noise protection against shine for upstream direction |
| [no] min-inp-rein-dn | Parameter type: <Xdsl::ReinImpNoiseProtection><br>Format:<br>- minimum impulse noise protection<br>- unit: DMT symbols<br>- range: [0...7] | *optional parameter with default value: 0*<br>minimum impulse noise protection against rein for downstream direction |
| [no] min-inp-rein-up | Parameter type: <Xdsl::ReinImpNoiseProtection><br>Format:<br>- minimum impulse noise protection | *optional parameter with default value: 0*<br>minimum impulse noise |

| Parameter | Type | Description |
|---|---|---|
| | - unit: DMT symbols<br>- range: [0...7] | protection against rein for upstream direction |
| [no] int-arr-time-dn | Parameter type: <Xdsl::RtxInterArrivalTime><br>Format:<br>( derivedfrom100hz<br>\| derivedfrom120hz )<br>Possible values:<br>- derivedfrom100hz : inter-arrival time derived from 100hz<br>- derivedfrom120hz : inter-arrival time derived from 120hz | *optional parameter with default value: "derivedfrom100hz"*<br>assumed inter-arrival time for rein protection for downstream direction |
| [no] int-arr-time-up | Parameter type: <Xdsl::RtxInterArrivalTime><br>Format:<br>( derivedfrom100hz<br>\| derivedfrom120hz )<br>Possible values:<br>- derivedfrom100hz : inter-arrival time derived from 100hz<br>- derivedfrom120hz : inter-arrival time derived from 120hz | *optional parameter with default value: "derivedfrom100hz"*<br>assumed inter-arrival time for rein protection for upstream direction |
| [no] shine-ratio-dn | Parameter type: <Xdsl::RtxShineRatio><br>Format:<br>- shine ratio<br>- unit: 1/1000<br>- range: [0...100] | *optional parameter with default value: 10*<br>shine ratio for downstream direction |
| [no] shine-ratio-up | Parameter type: <Xdsl::RtxShineRatio><br>Format:<br>- shine ratio<br>- unit: 1/1000<br>- range: [0...100] | *optional parameter with default value: 10*<br>shine ratio for upstream direction |
| [no] leftr-thresh-dn | Parameter type: <Xdsl::RtxLeftrThreshold><br>Format:<br>- near-end defect threshold<br>- unit: 1/100<br>- range: [0,1...99] | *optional parameter with default value: 0*<br>threshold for declaring a near-end defect in downstream direction |
| [no] leftr-thresh-up | Parameter type: <Xdsl::RtxLeftrThreshold><br>Format:<br>- near-end defect threshold<br>- unit: 1/100<br>- range: [0,1...99] | *optional parameter with default value: 0*<br>threshold for declaring a near-end defect in upstream direction |
| [no] active | Parameter type: boolean | *optional parameter*<br>to activate the profile |

# 35.5 xDSL Bonding Configuration Command

## Command Description

*This command allows to configure a bonding group, which consists of assigning a predefined bonding group profile and optional assigning a group rtx-profile.*

*Configuring bonding group will fail when a service is already configured on the secondary DSL line of the bonding group*

## User Level

*The command can be accessed by operators with xdsl privileges, and executed by operators with xdsl privileges.*

## Command Syntax

The command has the following syntax:

> configure xdsl-bonding group (bonding-group-idx) [ no group-profile | group-profile <Xdsl::GroupProfileIndexWithRemove> ] [ no group-rtx-profile | group-rtx-profile <Xdsl::LineBondingRtxProfile> ] [ [ no ] admin-up ] [ [ no ] up ]

## Command Parameters

**Table 35.5-1 "xDSL Bonding Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (bonding-group-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::PortId><br>- the port number | a unique interface index |

**Table 35.5-2 "xDSL Bonding Configuration Command" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| [no] group-profile | Parameter type: <Xdsl::GroupProfileIndexWithRemove><br>Format:<br>( none<br>\| <Xdsl::GroupProfileIndexWithRemove><br>\| name : <PrintableString> )<br>Possible values:<br>- none : no profile to associate<br>- name : profile name<br>Field type <Xdsl::GroupProfileIndexWithRemove> | *optional parameter with default value: "none"*<br>a valid profile index for the interface |

| Parameter | Type | Description |
|---|---|---|
| | - bonding group profile index<br>- range: [0...100]<br>Field type <PrintableString><br>- printable string | |
| [no] group-rtx-profile | Parameter type: <Xdsl::LineBondingRtxProfile><br>Format:<br>( none<br>\| <Xdsl::BondingRtxProfilePointer><br>\| name : <PrintableString> )<br>Possible values:<br>- none : no profile to associate<br>- name : profile name<br>Field type <Xdsl::BondingRtxProfilePointer><br>- profile index<br>- range: [0...128]<br>Field type <PrintableString><br>- printable string | *optional parameter with default value: "none"*<br>a valid bonding group rtx profile index for the interface |
| [no] admin-up | Parameter type: boolean | *obsolete parameter replaced by parameter "up"*<br>set the admin-state of the group to up |
| [no] up | Parameter type: boolean | *optional parameter*<br>*The parameter is not visible during creation.*<br>admin-state of the group to up |

# Command Output

**Table 35.5-3 "xDSL Bonding Configuration Command" Display parameters**

| Specific Information | | |
|---|---|---|
| **name** | **Type** | **Description** |
| group-profile-name | Parameter type: <Xdsl::IgnoredPrintableString><br>- ignored printable string | name of the group profile<br>*This element is only shown in detail mode.* |
| group-rtx-profile-name | Parameter type: <Xdsl::IgnoredPrintableString><br>- ignored printable string | name of the bonding group rtx profile<br>*This element is only shown in detail mode.* |

# 35.6 xDSL Bonding Configuration Command

## Command Description

*This node provides the provisoning of the bonding group, which consists of adding/removing links to/from the bonding group.*

## User Level

*The command can be accessed by operators with xdsl privileges, and executed by operators with xdsl privileges.*

## Command Syntax

The command has the following syntax:

> configure xdsl-bonding group (bonding-group-idx) ( no link (bonding-link-id) ) | ( link (bonding-link-id) )

## Command Parameters

**Table 35.6-1 "xDSL Bonding Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (bonding-group-idx) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::PortId><br>- the port number | a unique interface index |
| (bonding-link-id) | Format:<br><Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> / <Eqpt::PortId><br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number<br>Field type <Eqpt::PortId><br>- the port number | a bonding link interface index |

# 35.7 xDSL Bonding Board Configuration Command

## Command Description

*This command allows the operator to configure xdsl bonding parameters related with a specific board.*

## User Level

*The command can be accessed by operators with xdsl privileges, and executed by operators with xdsl privileges.*

## Command Syntax

The command has the following syntax:

> configure xdsl-bonding board (board-index)

## Command Parameters

**Table 35.7-1 "xDSL Bonding Board Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (board-index) | Format:<br>( <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId><br>\| <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> )<br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number | board index |

# 35.8 xDSL Bonding Board Vectoring Fallback Configuration Command

## Command Description

*This command allows the operator to configure per board the profile selection in case the bonding group enters the vectoring fallback mode.*

## User Level

*The command can be accessed by operators with xdsl privileges, and executed by operators with xdsl privileges.*

## Command Syntax

The command has the following syntax:

> configure xdsl-bonding board (board-index) vect-fallback [ no group-profile | group-profile <Xdsl::VectFbGroupProfileIndex> ] [ no group-rtx-profile | group-rtx-profile <Xdsl::VectFbGroupRtxProfile> ]

## Command Parameters

**Table 35.8-1 "xDSL Bonding Board Vectoring Fallback Configuration Command" Resource Parameters**

| Resource Identifier | Type | Description |
|---|---|---|
| (board-index) | Format:<br>( <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId><br>\| <Eqpt::RackId> / <Eqpt::ShelfId> / <Eqpt::SlotId> )<br>Field type <Eqpt::RackId><br>- the rack number<br>Field type <Eqpt::ShelfId><br>- the shelf number<br>Field type <Eqpt::SlotId><br>- the LT slot number | board index |

**Table 35.8-2 "xDSL Bonding Board Vectoring Fallback Configuration Command" Command Parameters**

| Parameter | Type | Description |
|---|---|---|
| [no] group-profile | Parameter type: <Xdsl::VectFbGroupProfileIndex><br>Format:<br>( group-level<br>\| <Xdsl::VectFbGroupProfilePointer><br>\| name : <PrintableString> )<br>Possible values:<br>- group-level : use the original group profile in fallback mode<br>- name : profile name<br>Field type <Xdsl::VectFbGroupProfilePointer> | *optional parameter with default value: "group-level"*<br>a valid profile index for the interface |

| Parameter | Type | Description |
|---|---|---|
| | - bonding group profile index<br>- range: [1...100]<br>Field type <PrintableString><br>- printable string | |
| [no] group-rtx-profile | Parameter type: <Xdsl::VectFbGroupRtxProfile><br>Format:<br>( none<br>\| group-level<br>\| <Xdsl::VectFbGroupRtxProfilePointer><br>\| name : <PrintableString> )<br>Possible values:<br>- none : no fallback profile to associate<br>- group-level : use the original group rtx profile in fallback mode<br>- name : profile name<br>Field type <Xdsl::VectFbGroupRtxProfilePointer><br>- a profile index value<br>- range: [0...128]<br>Field type <PrintableString><br>- printable string | *optional parameter with default value: "group-level"*<br>a valid bonding group rtx profile index for the interface |

# Command Output

**Table 35.8-3 "xDSL Bonding Board Vectoring Fallback Configuration Command" Display parameters**

| Specific Information | | |
|---|---|---|
| **name** | **Type** | **Description** |
| group-profile-name | Parameter type: <Xdsl::IgnoredPrintableString><br>- ignored printable string | name of the group profile<br>*This element is only shown in detail mode.* |
| group-rtx-profile-name | Parameter type: <Xdsl::IgnoredPrintableString><br>- ignored printable string | name of the bonding group rtx profile<br>*This element is only shown in detail mode.* |