Chapter 33. PPPoE Plus

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Chapter 33 PPPoE Plus

33.1 PPPoE Plus Overview

The Point-to-Point Protocol over Ethernet (PPPoE) is a network protocol for encapsulating Point-to-Point Protocol (PPP) frames inside Ethernet frames. It is used mainly with DSL services where individual users connect to the DSL modem over Ethernet and in plain Metro Ethernet networks. It was developed by UUNET, Redback Networks and RouterWare and is available as an informational RFC 2516.

33.2 ConfigurePPPoE Plus

33.2.1 PPPoE PlusConfiguration List

Configuration Task	Description	Detailed Configuration
Enable PPPoE Plus	Required	33.2.2
Configure Option Content	Optional	33.2.3
PPPoE Plus Monitor and Maintenance	Optional	33.2.4

33.2.2 Enable PPPoE Plus

PPPoE packet will be forwarded to trust port. Trust port should be configured after enable this function. Generally, PPPoE plus will add option content to PPPoE packet. If the received PPPoE packet has contained option content, the handling strategy will be defined.

Operation	Command	Remarks
Enter global configuration mode	**system-view**	
Enable PPPoE Plus	**pppoeplus**	
Disable PPPoE Plus	**undo pppoeplus**	
Enter interface configuration mode	**interface ethernet** *interface-num*	
Configure PPPoE trust port	**pppoeplus trust**	
Delete PPPoE trust port	**undo pppoeplus trust**	
Configure option strategy	**pppoeplus strategy** { drop	keep	replace	transmit }	
Configure PPPoE drop PADO/PADI	**pppoeplus drop** { padi	pado }	
Delete PPPoE drop PADO/PADI	**undo pppoeplus drop** { padi	pado }	

33.2.3 ConfigureOption Content

The option content need to be added before PPPoE packet forwarding out, the contents of this option can be determined by a variety of ways. Option content can be specified in interface configuration mode. If the content is not specified, it will be constructed according to configured rules. If pppoe plus type is self-defined, the format should also be specified.

Operation	Command	Remarks
Enter global configuration mode	**system-view**	
Configure PPPoE Plus type	**pppoeplus type** { **huawei**	**standard**	**self-defined** { **ciruit-id** { *string*	vlan	port	Switch-mac	hostname	client-mac } *	**remote-id** { *string*	Switch-mac	hostname	client-mac } * }	
Configure default PPPoE Plus type	**undo pppoeplus type**	By default, type

		is standard
Configure format	**pppoeplus format** { binary | ascii }	Optional
Configure default format	**undo pppoeplus format**	By default, it is binary
Configure delimiter	**pppoeplus delimiter** { colon | dot | slash | space }	
Configure default delimiter	**undo pppoeplus delimiter**	By default, it is space
Enter interface configuration mode	**interface ethernet** *interface-num*	
Specify circuit ID	**pppoeplus circuit-id** *string*	
Delete PPPoE cid	**undo pppoeplus circuit-id**	

33.2.4 PPPoE Plus Monitor and Maintenance

After finishing above configuration, user can check the configurations by command below.

Operation	Command	Remarks
Display PPPoE Plus configuration	**display pppoeplus interface** [ethernet *interface-list*]	