

MPLS VPN Service Performance Reports (MPLS Reports) User Guide



a PCCW Group member

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MPLS VPN Service Performance Reports

The MPLS VPN Service Performance Reports (MPLS VPN Reports) are accessible via PCCW Global's Online Service Portal.

They are available to PCCW Global's MPLS VPN customers whom have subscribed to the Managed Router Service, which PCCW Global manages the Customer Edge (CE) routers at customers' premises.

There are four sets of reports available that customers can subscribe to:

- Router and Interface Reports
- O QoS Reports
- Site2Site Reports
- Application Reports

Main Page

The MPLS VPN Reports are organized into two distinct reporting areas. They are accessible via the tabs displayed at the top of the main page. The two reporting areas are 'Service Reports' and 'Application Reports'.

The Service Reports area host the following report types:

- Router Reports Reports CE router's CPU, Memory, and Buffer usage
- Interface Reports Reports CE routers' LAN and WAN (MPLS VPN circuit) interface utilization
- QoS Reports Reports CE router's WAN interface (MPLS VPN circuit) Quality of Service (QoS) performance per class of service
- Site2Site Reports Reports jitter and response time performance per class of service subscribed between selected pairs of CE routers

The Application Reports area provides a breakdown of protocols' and hosts' usage information based on collected Netflow data from CE routers.



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Service Reports

Service Reports provide insight about the MPLS VPN service performance based on information collected from PCCW Global managed CE routers. Through Service Reports, you can learn about the health of the provided MPLS VPN service such as loading and utilization of the managed CE router and the WAN interface (MPLS VPN circuit) etc. Additionally, Service Reports provide information on QoS performance and an End-to-End (E2E) view of jitter and response time performance between selected CE routers using IPSLA.

Service Reports Basics

The sections below describe the basic components and functions of Service Reports.

Resources Navigator (Tree View)

- The Resources Navigator Tree View (highlighted in the diagram below) enables you to view and select CE routers according to various criteria, and triggers the generation of the selected Service Reports in order to understand the service performance of the CE routers and the associated MPLS VPN circuits. The Resources Navigator can display this information in various ways.
- Underneath the root "MPLS VPN", you have a view of sites and routers as a tree view (which you can expand with '+'). The top level of the tree is the site name and the next level is the router(s) associated with that particular site.



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Reports can be accessed by right-mouse clicking on a router and then selecting the report (e.g. Router, Interface, QoS, and Site2Site reports) you desire. Selecting the "All Reports" option will display all the reports that are available for that router. Or, you can select the individual reports for that particular router by clicking on the respective report link.

Once the report type is selected, a summary of the reporting elements in concern will be generated in the respective Report Pane.

Service Reports Application Report							
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Resources Navigator (List View)

The List View provides another mean to display the CE routers' related parameters (e.g. Router, LAN interface, WAN interface, QoS and Site2Site etc.) for report generation. It displays information according to the selection in the Resources Navigator (Tree View) above. For example:





- If "MPLS VPN" is being selected, then all the CE routers that belong to customer's MPLS VPN network will be loaded in the List View;
- If a particular site is being selected, all the CE routers in that particular site will be loaded in the List View;
- If a particular CE router is being selected, only parameters related to that CE router will be loaded in the List View

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- If the total number of rows in a list exceeds the number of visible rows, a filter panel appears between the data row and the header row, enabling you to perform dynamic searches. The value for the total number of rows is displayed in the lower right hand corner of the List View window.
- To use the dynamic search feature, you enter the value you would like to filter on in the text box below the column heading. For example, in the graphic below, you can see that there are 25 rows available. If you want to see just the LAN interfaces that are GigabitEthernet, you can type the word GigabitEthernet in the text box below the LAN Interface column and the list would be filtered by and only display GigabitEthernet interfaces.





PCCW Glo	bal [®]		
		Service Reports Application Re	ports
Time Navigator			
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Resources Naviga	tor		
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Site	Router	Interface	
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Bangkok-CWD	chanl-bkk-2570	FastEthernet0/0	
Bangkok-Airport	chani-bkk-3510	FastEthernet0/0/0	
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Bangkok-vv/H	chani-okk-3511	⊢astEthernet0/0/0	-
			25 1000

Time Navigator

The Time Navigator menu interacts with the Report Panes present on the same page that contains it. You use the Time Navigator to synchronize the reporting period of all Report Panes in one action, and to navigate all compatible Report Panes forward and backwards in time.

For reporting periods other than 5 minute, the latest available reporting period displayed on a particular report is one time period behind the current time. For example, if the time is 13:23 UTC and you are looking at an hourly report (meaning that one time period is 1 hour and the current time period is between 13:00 UTC and 14:00 UTC), the Report Panes will show data from 12:00 UTC to 13:00 UTC. This logic is true for all reporting time periods except 5 minute.

For reporting period equals to 5 min, the latest available reporting period displayed on a particular report is four time periods behind the current time. For example, if the time is 13:23 UTC and you are looking at a 5 minute report (meaning the one time period is 5 min and the current time period is between 13:20 UTC and 13:25 UTC), the Report Panes will show data from 13:00 UTC to 13:05 UTC

PCCW Global [®]									User: chanel Logout
Service Reports Application Reports									
			-						Service Reports
Time Navigator	Interface Reports - c	hanl-tpe-2568 07:55-08:	00 23 Sep 2015	UTC	114/11-			_	Free contract of the second se
5 minutes • 1 07:55 23 Sep 2015 🔤 UTC • > Go 🕨	Interfaces	5 minutes	IN	5 minutes (b	VUIIZ	OUT 5 minutes	(b/s) IN	5 minutes (%)	OUT 5 minutes (%)
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• 🛃 chanl-tpe-2568	QoS Reports - chanl-t	tpe-2568 · 07:55-08:00 23	Sep 2015 UTC						
Site Routers LAN WAN OoS Site2Site	Router	Interfaces	QoS		Delivered Traffic	Su	bmitted Traffic	Transmitted	Traffic Dropped Traffic
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chanc-bei-2683 Beijing-Oriental Plaza Hong Kong-Equinix Silver			SILVERPLUS A		100%	87.	85 kb/s	87.85 kb/s	0 b/s
chanc-bei-2683 Beijing-Oriental Plaza Hong Kong-Equinix Gold									
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		Demonstration Installing in	abardana Garadaha	0.4.0	Fui Screen				





Service Report Panes

There are four Report Panes within Service Reports: Router, Interface, QoS, and Site2Site Reports. The Router Report Pane is on the bottom left hand pane while the Interface, QoS, and Traffic Report Panes are on the right hand pane.

Each Report Pane provides a summary of the reporting elements in concern over the reporting period selected at the Time Navigator menu. V360 About

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		Service Reports /	Application Re	ports												
		Sector reports []											_		Service	e Reports
Time Navigator					Interface Reports - c	hanl-tpe-25	68 - 07:55-08:	00 23 Sep 2015	UTC							
5 minutes - 🕄 07:5	5 23 Sep	2015 🔤 UTC 🔹	> Go >		Interfaces		Port Speed 5 minutes		V 5 minutes (b	Utili (s)	Zation OUT 5 minutes (b	/s)	IN 5 minutes (%)		Error OUT 5 minutes (%)	
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Shenyang-P66				*												
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🖻 🕅 Taipel-Ankang																
💽 🛃 chanl-tpe-2567										Full Scree	an .					
💽 🛃 chanl-tpe-2568				+	QoS Reports - chanl-t	tpe-2568 - (07:55-08:00 23	Sep 2015 UTC								
Site Routers LAN WAN	QoS Sit	e2Site		_	Router	Interfaces		QoS		Delivered Traffic 5 minutes (%)	Sub 5 mir	mitted Traffic outes (b/s)	Transmit 5 minutes (ted Traffic	Dropped Traffic 5 minutes (b/s)	
Site					shard to a 2000		- 4010	0000175		4000		1.16.1-	C44.0 (b)		0.5/5	
					cham-tpe-2000	rastemen	181010	GOLDA		100%	94.4	3 kb/s	94 43 kb/s		0 b/s	
Bangkok-Airport				*				SILVER A		100%	26.8	9 kb/s	26.89 kb/s		0 b/s	
Bangkok-CWD								SILVERPLUS A		100%	87.8	5 kb/s	87.85 kb/s		0 b/s	
Bangkok-Central Embassy																
Bangkok-Emporium Bangkok-Empuratier																
Bangkok-Siam Paragon				-												
				31 rows												
Router Reports - chanl-the	2568 - 0	7-55-08-00 23 Sar	2015 UTC													
Router CPU	2500 - 0	Memory	Buffer							Full Scree	an in the second se					
Usage		Usage	Usage		Traffic Reports - chai	nl-tpe-2568	- 07:55-08:00	23 Sep 2015 U	TC							
sharel days of 60 million	108/	40.000	404		Class Of Service S	Site2Site			Source	e Di	estination	Response	Time Ji	tter	Packet Loss	<u>^</u>
chani-tpe-2566 • • •	1276	19.20%	4.70													
					Bronze J	itter chani-tpe	-2568 ID=11036331	35 172.16.253.40 0	 Taipei-A Taipei-A 	nkang Ho	ong Kong-Equinix	30.9ms	5.0	oms	0%	
					C.14	itter chani-tpe	-2566 10=16170576	00 472 40 253 30 4	 Taipei-A Taipei A 	nkang nu	ong Kong-Equility	23.000	2.	+1115	0%	
					Gold J	itter chani-tpe	-2568 ID=16414978	90 172.16.253.39 1	60 A Taipel-A	nkang Ho	ong Kong-Equinox	23.1ms	1.	2ms	0%	=
					J. J	itter chani-tpe	5-2000 IU=16533260	01 112.10.253.40 1	Toisei A	nkang Hi	ong Kong-Equinox	25.6MS	0.0	erris	0%	
					Silver J	itter chani-tpe	22000 IU=10114652	0 1/2.10.253.40 96	 Taipel-A Taipel A 	nkang Hi okoog Hi	ong Kong-Equinix	20.4MS	8.	Dirits Data	0%	
					Silvery	itter chani-tpe	2-2000 IU=35/69351	4 1/2.10.253.39 96	 Taipei-A Taipei A 	nkang Hi okoog Hi	ong Kong-Equinix	35ms	1	Dirits	0%	
					J J	itter chant-tpe	2000 10-43990944	E 473 46 362 40 43	A Toinoi A	nkang Ri	ang Kong-Equinix	20115	4.1	Reno	0%	
	Full Sci	reen			, ,	itter cnani-tpe	-2000 10-09310103	5 112.10.253.40 12	o a raipei-A	Full Scree	ing Kong-Equinox	20.005	1.0	2005	U%	-
					4					- Tui su ce	54 F					

Full Screen Mode

Due to the default size of the Report Panes, not all the summary of the reporting elements can be shown if multiple CE routers have been selected to generate reports.

To display the summary of all the reporting elements, at the bottom of each Report Pane you will see the words 'Full Screen'. Clicking on 'Full Screen' will open a new window with just the report you are viewing. You can use Full Screen mode to see all of the information contained in a report in a window all by itself.

Router Reports - c	hanl-tpe-	2568 - 0	7:55-08:	:00 23 Sep	2015 UT	C
Router	CPU		Memory		Buffer	
	Usage		Usage		Usage	
chanl-tpe-2568 🔻 🔻		12%		19.28%		4%
1						
1						
1						
		Full So	reen			

In Full Screen mode, you also have the ability to export the report to a text file, excel file, PDF file, or XML file by selecting either of those options in the upper left-hand corner of the window. Additionally, you can send the report as an email.





Moreover, at the upper right-hand corner of the window, there is a Time Navigator menu, which you can change the reporting period as well.

Export 💌 Explain Email 🖂 Regenerate			5 minutes • • • 13:50 24 Sep 2015 🔤 UTC • F Go F
PCCW Global [®]		Router Reports - chanl-tpe-2568	
Router	CPU Usage	Memory Usage	Buffer Usage
chanl-tpe-2568 🔻 🔻	9%	19.26%	4%
Report generated for chanel			

Real-time Reports Drill Down

Within Service Report Pane, or its corresponding Full Screen mode, by selecting the name of the router, interface, QoS type, or Site2Site instance, you can drill-down into the real-time reports.

Router Reports - o	hanl-tpe-2568 - (07:55-08:00 23 Sep	2015 UTC
Router	CPU Usage	Memory Usage	Buffer Usage
	400	10.000/	
cnani-tpe-2568	12%	19.28%	4%
	Full S	Green	

In the real-time reports, you will see a graphical view of the reporting element over a specified time. Additionally, you can modify the time span that a report is displayed through the Time Navigator menu in the upper right-hand corner of the window. For example, you can request to see 5-minutes samples of data over a 1-hour period. Or, you can select 1-hour samples over a 1-day period. The example below is from a router real-time report drill-down.

Export () [Email 😂 [Regenerate]	5	minutes • Over 🕫 1 Hour • Until 🕄 13:05 24 Sep 2015 🖬 UTC • 🖹 🐼 🕷 🚒
PCCW Global		
	Router Reports - chanl-tpe-2568	
chanl-tpe-2568	chanl-tpe-2568	chani-tpe-2568
60.0%	60.0%	60.0%
40.0%	40.0%	40.0%
20.0%	20.0%	20.0%
0.0%	0.0%	0.0%
5 minutes	5 minutes	5 minutes
COULIEsse 80 - Utilization Throshold 80	Howens House 40	Roffee Urana #0 Utilization Threshold #0
- cho usage var utilization infestiolo (b)	memory usage (ver Utilization Infeshold (h)	uniter usage on — Utilization Enteshold by

Below are the available reporting sample time and period combinations for Real-Time Reports (PCCW Global reserves the rights to amend the combinations depending on the size of the resulting data storage)

Reporting Sample Time	Reporting Period
5min	Up to 90 days
Hourly	Up to 3 months
Daily	Up to 6 months
Weekly	Up to 12 months
Monthly	Up to 24 months





You can also export the report to a text file, excel file, PDF file, or XML file. Additionally, you can send the report as an email.

Router Reports

Router reports show the CE router name, CPU, Memory, and Buffer usage of the CE router. There are three small icons next to the CE router name (they are blue triangles pointing down). Hovering the mouse over each of the icons shows what their function is. Respectively, from left to right, clicking on each one will open a new window and take you to Interface Reports, QoS Reports, and then Site2SiteReports associated with the CE router in concern.

PCCWGIO	Dal												User: cha	nel Logout
		Service Reports	Application Reports]										
Time Navigator				Interface Reports -	chanl-tne-25	68 - 07:55-08:	00 23 Sap 201	SUITC					Servic	e Reports
5 minutes • • 07:55 23 Sep 2015 🔤 UTC • • • 60 •				Interfaces	aces Po		Port Speed 5 minutes		Util IN 5 minutes (b/s)		D.	V 5 minutes (%)	Error OUT 5 minutes (%)	
Resources Naviga	tor		•	chanl-toe-2568:FastEther	net0/0 🔺	2 Mb/s		1.5 Mb/s		778.66 kb/s		0%	0%	
CHANEL - Apply														
🔹 🎁 Shenyang-P6	6		4											
Singapore-KC	CR.													
Sydney-WKS														
	5 													
🔄 🥃 chanl-the	-2568					7.55.00.00.00	0	_	Full Sc	reen	_			_
E Brannie	. 2500			Router	Interfaces	07:55-08:00 23	Sep 2015 010	_	Delivered Traff	fic Subm	tted Traffic	Transmitted Traffic	Dropped Traffic	_
Site Routers LA	N WAN QoS S	ite2Site		-					5 minutes (%)	5 minut	es (b/s)	5 minutes (b/s)	5 minutes (b/s)	
Site				chanl-tpe-2568	FastEthern	et0/0	BRONZE A		100%	511.8 k	b/s	511.8 kb/s	0 b/s	_
Bangkok-Airport							GOLD A		100%	94.43 k	b/s	94.43 kb/s	0 b/s	
Bangkok-CWD							SILVER A		100%	26.89 k 87.85 k	b/s h/s	26.89 kb/s 87.85 kb/s	0 b/s 0 b/s	
Bangkok-Central Embassy	y .			1										
Bangkok-Emporium														
Bangkok-Emquartier														
Bangkok-Siam Paragon				·										
			31 row											
Router Reports - c	hanl-tpe-2568 -	07:55-08:00 23 Set	2015 UTC						Full Sc	reen				
Router	Usage	Usage	Usage	Traffic Reports - cha	anl-tpe-2568	- 07:55-08:00	23 Sep 2015 U	тс						
	-	-		Class Of Service	Site2Site			Source		Destination	Response Ti	ime Jitter	Packet Loss	*
cnani-tpe-2568 V V	12%	19.28%	4%	-	littee chant to a	- 2568 ID-44026224	25 472 40 252 40 0	Toinei An		Hann Kana Faulah	20.0	(/ m		
				bronze	Jitter chami-tpe	2500 10=11030331	35 172.10.253.40 (Taipei-An	kang	Hong Kong-Equility	30.9ms	5.0ms	0%	
				Calif	Jitter cham-tpe	2566 10=16170576	00 472 46 253 30	CO A Taipel An	kang	Hong Kong-Equility	23.000	2.405	0%	
				Gold	litter chanl-tpe	2500 10=10414975	90 172.10.253.39	160 A Taipei An	kang	Hong Kong-Equility	23.1118 25.6mg	0.4mg	0%	=
				Silver	litter chanl-tpe	-2568 ID=10114852	6 172.16.253.40 96	A Taipei-An	kang	Hong Kong-Equinix	58.4ms	8.5ms	0%	
					Jitter chanl-tpe	-2568 ID=3576935	4 172.16.253.39 9	Taipei-An	kang	Hong Kong-Equinix	33ms	7.6ms	0%	
				Silver+	Jitter chanl-tpe	-2568 ID=43996944	172.16.253.39 12	Taipei-An	kang	Hong Kong-Equinix	28ms	4.8ms	0%	
					Jitter chanl-tpe	-2568 ID=59318189	5 172.16.253.40 1	8 🔺 Taipei-An	kang	Hong Kong-Equinix	26.8ms	1.8ms	0%	-
	Fulls	Screen							Full Sc	reen				
					Powe	ared by InfoVista® te	chnology - Copyrigh	t 2012						



Company Name



Interface Reports

The Interface Reports show the name of the CE router's interface(s), the Port Speed, the IN/OUT Utilization and the IN/OUT Error percentage of the interface(s).

The LAN interface shows the statistics of the CE router connecting to customer's LAN, while the WAN interface shows the statistics of the CE router connecting to the MPLS VPN circuit.

PCCW Global [®]									User: chanel Logo
Service Reports Application Report	ts								Comico Dovor
Time Navigator	Interface Reports - c	hanl-tpe-2568 - 07:55-08	:00 23 Sep 2015	UTC					Service Repor
5 minutes • • 07:55 23 Sep 2015 - UTC • • 60 •	Interfaces	Port Speed			Utili:	zation			Error
Percentrar Navigator	0	5 minutes	17	1 5 minutes (b/s)	OUT 5 minutes (b	v/s) IN	V 5 minutes (%)	OUT 5 minutes (%)
CHANEL - Annix	chanl-tpe-2568:FastEthern	et0/0 🔺 2 Mb/s	1	5 Mb/s		778.66 kb/s	(0%	0%
CHANEL + MPPH									
Shenvang 265									
Singanore.KCR									
A Swiney-WKS									
dig degletatere:					5.10				
🖂 🖪 chaol-tre-2568		2560 07.55 00.00 0			Full Scree	n			
	Qos Reports - chani-t Router	pe-2568 - 07:55-08:00 2	00S	r	elivered Traffic	Sub	mitted Traffic	Transmitted Traffic	Dropped Traffic
Site Routers LAN WAN QoS Site2Site		Interfaceo	400	5	minutes (%)	5 mir	nutes (b/s)	5 minutes (b/s)	5 minutes (b/s)
Site	shani too 2569	EastEthoroot0/0	RDONZE A		00%	611.0	R kh/a	E11 9 kb/n	0.6/2
	cham-tpe-2000	rastchernetoro	GOLD	1	00%	94.4	3 kb/s	94.43 kb/s	0 b/s
Bangkok-Airport Bangkok CMD	<u> </u>		SILVER A	1	00%	26.8	9 kb/s	26.89 kb/s	0 b/s
Bangkok-Central Embassy			SILVERPLUS A	1	00%	87.8	5 kb/s	87.85 kb/s	0 b/s
Bangkok-Emporium									
Bangkok-Emquartier									
Bangkok-Siam Paragon	-								
31 r	ows								
Router Reports - chanl-tpe-2568 - 07:55-08:00 23 Sep 2015 UTC					Eul Sman				
Router CPU Memory Buffer	Traffic Doporte sha	al too 3569 07,55 09,00	22 Een 2015 II	rc.	Pui Scree				
Usage Usage Usage	Class Of Service	ite2Site	7 25 Sep 2015 0	Source	De	estination	Response Ti	ime .litter	Packet Loss
chanl-tpe-2568 🔻 💌 12% 💼 19.28% 4%				000100		Joundation	neopeneo n	0110	, donot 2000
	Bronze J	itter chanl-tpe-2568 ID=1103633	3135 172.16.253.40 0	Taipei-Ank	ang Ho	ing Kong-Equinix	30.9ms	5.6ms	0%
	J	itter chanl-tpe-2568 ID=161705	7692 172.16.253.39 0	Taipei-Ank	ang Ho	ing Kong-Equinix	23.8ms	2.4ms	0%
	Gold J	itter chanl-tpe-2568 ID=164149	7590 172.16.253.39 1	60 ▲Taipei-Ank	ang Ho	ing Kong-Equinix	23.1ms	1.2ms	0%
	1	itter chanl-tpe-2568 ID=165332	6087 172.16.253.40 1	60 ▲Taipei-Ank	ang Ho	ing Kong-Equinix	25.6ms	0.4ms	0%
	Silver J	itter chanl-tpe-2568 ID=101148	526 172.16.253.40 96	 Taipei-Ank 	ang Ho	ing Kong-Equinix	58.4ms	8.5ms	
	J	itter chanl-tpe-2568 ID=357693	574 172.16.253.39 96	 Taipei-Ank 	ang Ho	ing Kong-Equinix	33ms	7.6ms	
	Silver+ J	itter chanl-tpe-2568 ID=439969	44 172.16.253.39 128	 Taipei-Ank 	ang Ho	ing Kong-Equinix	28ms	4.8ms	
Full Screen	J	itter chani-tpe-2568 ID=593181	895 172.16.253.40 12	s 🔺 Taipei-Ank	ang Ho	ing Kong-Equinix	26.8ms	1.8ms	0 %
					rui scree				

QoS Reports

The QoS Reports show the CE router name, the Interface(s), the QoS classes of service assigned to that interface and the associated Delivered Traffic, Submitted Traffic, Transmitted Traffic, and Dropped Traffic per class of service. The four classes of service designations are BRONZE, SILVER, SILVER, PLUS, and GOLD. On a per class of service view:

- Submitted Traffic The total amount of traffic (in b/s) send from customer's LAN towards the MPLS VPN circuit.
- Transmitted Traffic The amount of traffic (in b/s) actually sent to the MPLS VPN circuit by the CE router.
- Dropped Traffic The amount of traffic (in b/s) being dropped by the CE router that exceed the subscribed class of service bandwidth profile while there is no spare headroom within the MPLS VPN circuit to transmit those excess traffic
- Delivered Traffic The percentage of Submitted Traffic that is successfully transmitted to the MPLS VPN circuit (Transmitted Traffic / Submitted Traffic x 100%)

Please note that, according to PCCW Global MPLS VPN Class of Services policy, at the CE router:

• Excess GOLD class of service traffic will be dropped





• For SILVER PLUS, SILVER and Bronze classes of service, excess traffic will take up the vacant bandwidth left over from other classes of service

PCCW Global [°]							Den vaso Abo Useri chanel Logo
Service Reports Application Report	s						
	Tatonfaso Desents	sharely the DECR. 07-EE of	0-00 23 Car 2015 UT				Service Report
5 minutes • • 07:55 23 Sec 2015 UTC • • Go •	Interface Reports -	Port Speed	18:00 23 Sep 2015 010		Utilization		Error
Resources Navigator	•	5 minutes	IN 5 mi	nutes (brs)	OUT 5 minutes (brs)	(N 5 minutes (%)	OUT 5 minutes (%)
CHANEL - Apply	chanl-tpe-2568:FastEther	net0/0 A 2 Mb/s	1.5 Mb	5	778.66 kb/s	0%	i 0%
(1) Shenyang-P66	*						
(f) Singapore-KCR							
🖈 🕅 Sydney-WKS							
🖻 🎲 Taipei-Ankang							
chanl-tpe-2567				Ful	Screen		
 dani-tpe-2568 	QoS Reports - chanl	-tpe-2568 - 07:55-08:00	23 Sep 2015 UTC				
Site Routers LAN WAN OoS Site2Site	Router	Interfaces	QoS	Delivered Tr	affic Submitted Traf	fic Transmitted Traffic	Dropped Traffic
Ste				5 minutes (%)	3 minutes (b/s)	5 minutes (b/s)	3 minutes (b/s)
	chanl-tpe-2568	FastEthernet0/0	BRONZE A	100%	511.8 kb/s	511.8 kb/s	0 b/s
Bangkok-Airport			GOLD A	100%	94.43 kb/s 26.89 kb/s	94.43 kb/s 26.89 kb/s	0 b/s
Bangkok-CWD			SILVERPLUS A	100%	87.85 kb/s	87.85 kb/s	0 b/s
Bangkok-Central Embassy							
Bangkok-Emporium Brandisk Employation							
Bangkok-Emquarber Bangkok-Siam Daranno	-						
31 rg	ws						
Pouter Reports - chanl-tne-2568 - 07:55-08:00 23 Sep 2015 UTC							
Router CPU Memory Buffer				Pul	Screen		
Usage Usage Usage	Traffic Reports - cha	anl-tpe-2568 - 07:55-08:0	00 23 Sep 2015 UTC				
chanl-tpe-2568 T T 12% 19.28% 4%	Class Of Service	Site2Site	5	ource	Destination Res	ponse Time Jitter	Packet Loss
	Bronze	Jitter chani-tpe-2568 ID+11036	33135 172.16.253.40 0 A	alpel-Ankang	Hone Kone-Equinix 30.9r	na 5.6ma	. 1%
		Jitter chani-tpe-2568 ID-16170	57692 172.16.253.39 0 A	alpei-Ankang	Hong Kong-Equinix 23.8r	ns 2.4ms	
	Gold	Jitter chani-tpe-2568 ID=16414	97590 172.16.253.39 160 AT	aipei-Ankang	Hong Kong-Equinix 23.1r	ns 1.2ms	0%
		Jitter chani-tpe-2568 ID=16533	26087 172.16.253.40 160 .	alpel-Ankang	Hong Kong-Equinix 25.6r	ns 0.4ms	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
	Silver	Jitter chanl-tpe-2568 ID=10114	8526 172.16.253.40 96 🔺 T	aipei-Ankang	Hong Kong-Equinix 58.4r	ns 8.5ms	0%
		Jitter chanl-tpe-2568 ID=35769	3574 172.16.253.39 96 🔺 T	aipel-Ankang	Hong Kong-Equinix 33ms	7.6ms	0%
	Silver+	Jitter chanl-tpe-2568 ID=43996	944 172.16.253.39 128 🔺 T	aipei-Ankang	Hong Kong-Equinix 28ms	4.8ms	0%
Ed Strees		Jitter chanl-tpe-2568 ID=59318	1895 172.16.253.40 128 A T	sipei-Ankang	Hong Kong-Equinix 26.8r	ns 1.8ms	0%
Fur Screen				Ful	Screen		

Site2Site Reports

The Site2Site Reports show the Response Time, Jitter, and Packet Loss, per class of service subscribed between selected pairs of CE routers.

														User: chan	wel Logout
		Service Reports	Application I	leports											
														Service	e Reports
Time Navigator					Interface Reports -	chanl-tpe-25	68 - 07:55-08:	00 23 Sep 2015	UTC						
5 minutes	• 🔹 07:55 23 9	Sep 2015 🔤 UTC •	- Go H		Interfaces		Port Speed		5 minutes (b)	Utili:	OUT 5 minutes (b/s)	N .	5 minutes (%)	CUT 5 minutes (%)	
Resources Naviga	tor									~					
CHANEL - Apply					chani-tpe-2568:FastEther	net0/0 🔺	2 Mb/s	1.	5 Mb/s		778.66 kb/s		0%	0%	
Shenyang-Pt	56			^											
主 🐧 Singapore-Ki	DR.														
Sydney-WKS															
🖻 📢 Tapel-Ankar	9														
🗉 🚱 chani-tpe	1-2567									Full Scree	n				
i 🛃 chani-tpe	-2568			*	QoS Reports - chanl	-tpe-2568 - 0	7:55-08:00 23	Sep 2015 UTC							
Site Routers L/	N WAN QoS	Site2Site			Router	Interfaces		QoS		Delivered Traffic	Submitt	ed Traffic	Transmitted Traffic	Dropped Traffic	
Site												. (
					chani-tpe-2568	FastEtherne	et0/0	BRONZE A		100%	511.8 kb/		511.8 kb/s	0 b/s	
Bangkok-Airport				~				SILVER A		100%	26.89 kb	6 6	26.89 kb/s	0 b/s	
Bangkok-CWD								SILVERPLUS A		100%	87.85 kb	8	87.85 kb/s	0 b/s	
Bangkok-Central Embass	y .														
Bangkok-Emporium					1										
Banokok-Siam Paragoon				-											
				31 rows	1										
Router Reports - o	hanl-tpe-2568	07:55-08:00 23 Se	2015 UT												
Router	CPU	Memory	Buffer							Ful Scree	1				_
	Usage	Usage	Usage		Traffic Reports - chi	snl-tpe-2568	- 07:55-08:00	23 Sep 2015 UT	C	0.0	attention	Decessor Tim	The second s	Deskations	
chanl-tpe-2568 v v v	12%	19.28%	4	%	class of service	2116522116			Source	De	sunation	Response film	ne Jitter	PacketLoss	- â
					Bronze	Jitter chanl-tpe	-2568 ID=11036331	135 172.16.253.40 0	Taipei-Ar	kang Ho	ng Kong-Equinix	30.9ms	5.6ms	0%	
						Jitter chanl-tpe	-2568 ID-1617057	692 172.16.253.39 0	Taipei-Ar	kang Ho	ng Kong-Equinix	23.8ms	2.4ms	iii 0%	
					Gold	Jitter chanl-tpe	-2568 ID=1641497	590 172.16.253.39 16	0 ▲Taipei-Ar	kang Ho	ng Kong-Equinix	23.1ms	1.2ms	iii 096	
						Jitter chanl-tpe	-2568 ID-16533266	087 172.16.253.40 16	0 ▲Taipei-Ar	kang Ho	ng Kong-Equinix	25.6ma	0.4ma	iii 0%	
					Silver	Jitter chanl-tpe	-2568 ID-10114853	26 172.16.253.40 96	Taipei-Ar	kang Ho	ng Kong-Equinix	58.4ms	8.5ms	0%	
						Jitter chanl-tpe	-2568 ID=3576935	74 172.16.253.39 96	Taipei-Ar	kang Ho	ng Kong-Equinix	33ms	7.6ms	0%	
					Silver+	Jitter chani-tpe	-2568 ID=4399694-	4 172.16.253.39 128	Taipei-Ar	kang Ho	ng Kong-Equinix	28m8	4.5ms	0%	
	Ful	Screen				Jitter chanl-tpe	-2568 ID=59318181	95 172.16.253.40 128	A Tapei-Ar	Kang Ho	ng Kong-Equinix	26.5mš	1.6ms	0%	*
			_	_		Barra	and he belowed at the	shaalaa Caasiahi	2012	Fui Scree					_
			_	_		Powe	reo oy ===0Vistala se	romology - Copyright	2012						_





Application Reports

Application Reports provide details about traffic flow on the network.

The data for Application Reports comes from the Netflow packets captured from the selected CE router's WAN interface (which is connected to the MPLS VPN circuit). That data is then organized into various types of reports that show the applications and hosts that are transmitting traffic through the MPLS VPN circuit in concern.



Application Reports Basics

The sub-sections below describe the basic components and functions of Application Reports.

Resources Navigator (Tree View)

The Resources Navigator (Tree View)(highlighted in the diagram below) enables you to view and select CE routers according to various criteria, and triggers the generation of the selected Application Reports in order to understand what applications and hosts are consuming the bandwidth of the associated MPLS VPN circuits. The Resources Navigator can display this information in various ways.

Underneath the root "MPLS VPN", you have a view of CE routers as a tree view (which you can expand with '+'). The top level of the tree is the CE router name and the next levels contain the interfaces associated with each CE router.

Reports can be accessed by right-mouse clicking on a router or interface, which will open up a selection window that will allow you to choose between Throughput (rate) and Volume (total) application reports. Each of those two sub-reports have the same options; per Application Line, per Application Pie; Node Traffic, or Conversation Traffic.





PCCW Global



Netflow Report Pane

Once you have selected the type of report you want to examine, that report will appear in the Netflow Report Pane. The upper right hand corner of each of these reports has an area where you can modify the time span of the report and change the indicators that are being displayed.

Below is the default maximum lifetime of data in the database table. When the lifetime is reached, older data is purged. (PCCW Global reserves the rights to amend the database lifetime maximum value depending on the size of the resulting data storage)

1 0	0 0 /
Maximum lifetime of data in a table	365 days

In the reports there are two types of indicators, which identify the nature of the traffic:

- Client Refers to the host that initiates the communication. In the reports, it represents monitored traffic associating to hosts that initiate the communications
- Server Refers to the host that replies the communication. In the reports, it represents monitored traffic associating to hosts that reply the communications.

On the per Application Line and per Application Pie reports, you will see a color-based legend that shows the type of traffic that was captured on that CE router/interface combination being selected. Hovering the mouse over, or clicking on, any of the traffic types will change the color of that particular traffic type in the legend. This is done so that you will know exactly what traffic type you have selected.

In the screenshot below, the reporting system knows about the traffic that goes over well-knows ports, it will name and classify that traffic accordingly. Consequentially, UNDEFINED application refers to Netflow traffic with a TCP or UDP port that has not been registered in IANA.





PCCW Global [°]		[일면 V360 Abou User: chamel Logou
Service Reports Application Report Resources Navigator CHANEL V Apply	Netflow Report +# chances/2803 CHANEL, MPLS VPN	Application Report
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Throughput/Volume – per Application Line Report

The reports show the traffic throughput (in b/s) or traffic volume (in bytes) of the monitored applications over a selected reporting timespan.



Throughput/Volume – per Application Pie Report

The reports show the traffic throughput (in b/s) or traffic volume (in bytes) distribution of the monitored applications over a selected reporting timespan.

Service Reports Application Reports	
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Throughput /Volume- Node Traffic

The reports show the traffic throughput (in b/s) or traffic volume (in bytes) of the monitored hosts over a selected reporting timespan.





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Service Rep	orts Application Reports		
Resources Navigator	Netflow Rep	t	Application Reports
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	Router =	1950203	
MPLS VPN	*		Avg Total
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dhanc-shi-2676	~		N N

Throughput/Volume – Conversation Traffic

The reports show the traffic throughput (in b/s) or traffic volume (in bytes) of the monitored pairs of hosts over a selected reporting timespan.



---- End ----

