



Application Guide

Wedora Cloud-IPFix Test-Hongdian Router



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Revision History

Updates between document versions are cumulative. Therefore, the latest document version contains all updates made to previous versions.

Doc Version	Product	Release Data	Details
V1.0	M2M Cloud Platform Hongdian Router	2017.09.30	First Release

1 Overview

The IPFIX (IP Flow Information Export) is a optional function for Wedora platform. This article shows you how test the IPFIX on Wedora cloud. Please make sure the platform has supported the IPFIX function, and the Hongdian router of your hand has supported IPFIX configuration.

2 Description

Note: please synchronize the time of the router to real time at first.

2.1 Setup IPFix Parameter

Login to router CLI, and setup parameter as below:

```
router#
router#
router# config t
router(config)#
router(config)# service ipfix
router(config-ipfix)#
router(config-ipfix)# collector address 47.88.149.108
router(config-ipfix)#
router(config-ipfix)# collector port 10086
router(config-ipfix)#
router(config-ipfix)# probe br0
router(config-ipfix)#
router(config-ipfix)# export interval 10
router(config-ipfix)#
router(config-ipfix)# odid 2
router(config-ipfix)#
router(config-ipfix)#wr
Configuration saved to /tmp/hdconfig/cli.conf
```

Result:

```
interface wlan_ac
 mode ap
 ssid admin
 channel 100
 shutdown
 *
 *
 *
 service ipfix
 collector address 47.88.149.108
 collector port 10086
 probe br0
 export interval 10
 odid 2
 *
 *
 service mc
 *
 *
 end
 router#
```

Enable IPFix feature

service ipfix

collector address 47.88.149.108

collector port 10086

probe br0

export interval 20

odid 2

no shutdown

Disable IPFix feature

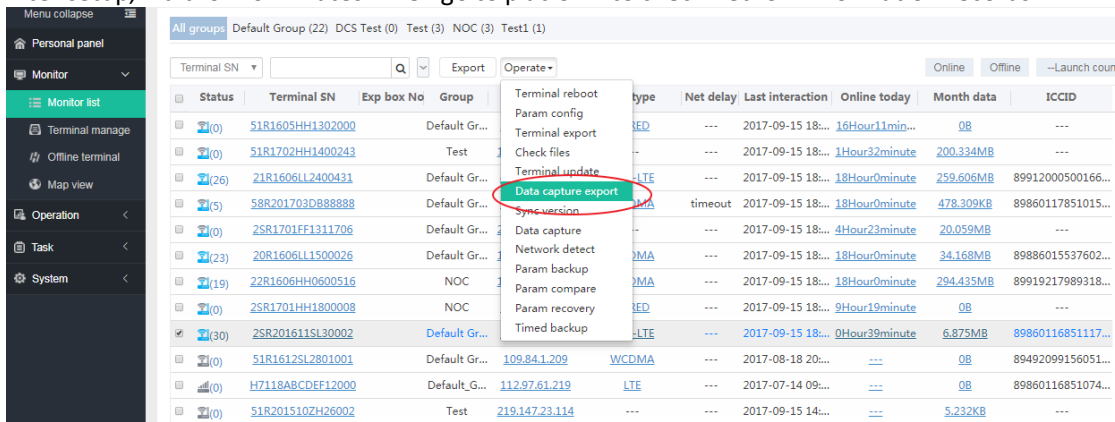
service ipfix

shutdown

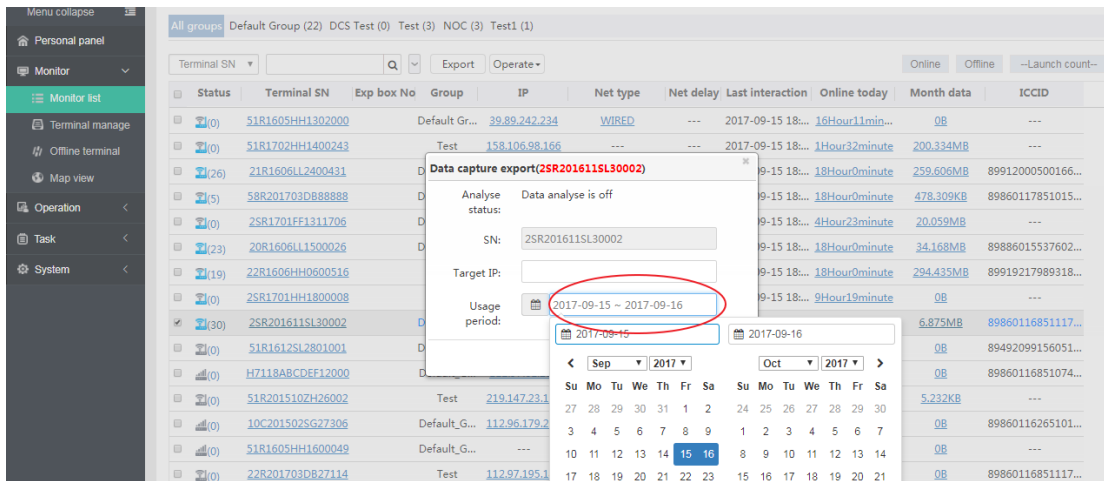
After IPFix is enabled, the function will run in the device, and send recorded information to the platform.

2.2 Check the captured information.

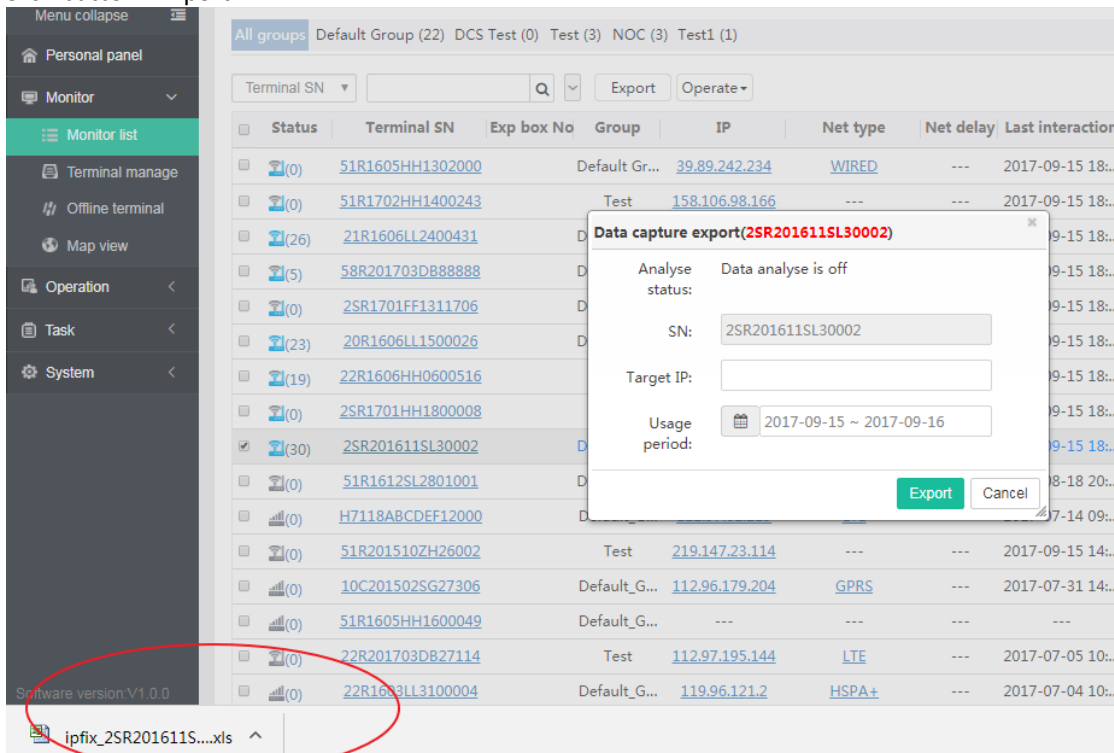
After setup, wait for 10 minutes. Then go to platform to check netflow information records:



Status	Terminal SN	Exp box No	Group	Operate	type	Net delay	Last interaction	Online today	Month data	ICCID
(0)	51R1605HH1302000		Default Gr...	Terminal reboot	...	...	2017-09-15 18:...	16Hour11min...	0B	...
(0)	51R1702HH1400243		Test	Terminal export	...	...	2017-09-15 18:...	1Hour32minute	200.334MB	...
(26)	21R1606L12400431		Default Gr...	Check files	...	...	2017-09-15 18:...	18Hour0minute	259.606MB	89912000500166...
(5)	58R201703DB88888		Default Gr...	Terminal update	...	...	2017-09-15 18:...	18Hour0minute	478.309KB	89860117851015...
(0)	2SR1701FF1311706		Default Gr...	Sync version	...	timeout	2017-09-15 18:...	18Hour0minute	478.309KB	89860117851015...
(23)	20R1606L1500026		Default Gr...	Data capture	...	...	2017-09-15 18:...	4Hour23minute	20.059MB	...
(19)	22R1606HH0600516		NOC	Network detect	...	...	2017-09-15 18:...	18Hour0minute	34.168MB	89886015537602...
(0)	2SR1701HH1800008		NOC	Param backup	...	...	2017-09-15 18:...	18Hour0minute	294.435MB	89919217989318...
(30)	2SR201611SL30002		Default Gr...	Param compare	...	...	2017-09-15 18:...	9Hour19minute	0B	...
(0)	51R1612SL2801001		Default Gr...	Param recovery	...	...	2017-09-15 18:...	0Hour39minute	6.875MB	89860116851117...
(0)	H7118ABCDEF12000		Default_G...	Timed backup	...	...	2017-08-18 20:...	---	0B	89492099156051...
(0)	51R201510ZH26002		Test		...	...	2017-07-14 09:...	---	0B	89860116851074...
(0)	51R201510ZH26002		Test		...	...	2017-09-15 14:...	---	5.232KB	---



Click button "Export"



Open the excel file, then find the captured netflow information as below:

A	B	C	D	E	F	G	H	I	J		
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:58	886000	2017-09-15 10:34:58	886000	192.168.8.74	19771	157.55.56.141	40017	62	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:58	651000	2017-09-15 10:34:58	651000	157.55.56.141	40017	192.168.8.74	19771	75	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:57	823000	2017-09-15 10:34:58	050000	52.229.169.31	443	192.168.8.74	55742	120	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:57	623000	2017-09-15 10:34:57	850000	192.168.8.74	55742	52.229.169.31	443	886	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:57	295000	2017-09-15 10:34:57	775000	192.168.8.74	19771	157.55.235.165	40015	184	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:57	046000	2017-09-15 10:34:57	536000	157.55.235.165	40015	192.168.8.74	19771	429	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:56	897000	2017-09-15 10:34:57	136000	192.168.8.74	19771	65.55.223.21	40030	116	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:56	855000	2017-09-15 10:34:57	047000	192.168.8.74	19771	64.4.23.142	40007	293	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:56	853000	2017-09-15 10:34:57	045000	192.168.8.74	19771	64.4.23.154	40017	165	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:56	852000	2017-09-15 10:34:57	044000	192.168.8.74	19771	64.4.23.175	40030	115	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:56	644000	2017-09-15 10:34:56	853000	64.4.23.175	40030	192.168.8.74	19771	165	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:56	644000	2017-09-15 10:34:56	898000	65.55.223.21	40030	192.168.8.74	19771	355	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:56	643000	2017-09-15 10:34:56	853000	64.4.23.154	40017	192.168.8.74	19771	351	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:56	643000	2017-09-15 10:34:56	856000	64.4.23.142	40007	192.168.8.74	19771	239	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:52	898000	2017-09-15 10:34:55	900000	239.255.255.250	1900	192.168.8.74	63279	864	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:48	497000	2017-09-15 10:34:48	497000	192.168.8.74	50671	111.221.77.151	33033	112	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:48	442000	2017-09-15 10:34:48	698000	111.221.77.151	33033	192.168.8.74	50671	607	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:47	584000	2017-09-15 10:34:56	592000	74.125.204.101	443	192.168.8.74	57546	194	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:47	423000	2017-09-15 10:34:56	432000	74.125.204.101	443	192.168.8.74	57545	194	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:45	630000	2017-09-15 10:34:45	630000	192.168.8.74	19771	111.221.77.140	40001	117	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:45	590000	2017-09-15 10:34:45	590000	111.221.77.140	40001	192.168.8.74	19771	173	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:45	531000	2017-09-15 10:34:54	531000	74.125.204.113	443	192.168.8.74	57544	194	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:45	521000	2017-09-15 10:34:54	521000	74.125.204.113	443	192.168.8.74	57543	194	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:37	798000	2017-09-15 10:34:46	798000	112.90.78.157	143	192.168.8.74	57542	194	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:36	540000	2017-09-15 10:34:45	539000	74.125.204.139	443	192.168.8.74	57541	194	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:36	527000	2017-09-15 10:34:45	532000	74.125.204.139	443	192.168.8.74	57540	194	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:36	521000	2017-09-15 10:34:45	519000	74.125.204.139	443	192.168.8.74	57539	194	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:36	519000	2017-09-15 10:34:45	522000	74.125.204.139	443	192.168.8.74	57538	194	br0
2SR201611SL30002	2017-09-15 18:35:30	2017-09-15 10:34:31	043000	2017-09-15 10:34:40	047000	74.125.204.102	443	192.168.8.74	57537	194	br0

NOTE: if you want to see date N record, always need select time N+1 date. For example, want to see 09-18 record, then need to select date from 09-18 to 09-19, or from 09-18 to 09-20. If you select 09-17 to 9-18, then records of 09-18 doesn't show. Just follow this rule to get records of specific date.

PS: Remember to shutdown the IPFix feature after using it, because it cost extra data



Create smart things



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