

Release Notes

1. Basic Information

Product Model	<ul style="list-style-type: none"> NTA NX3-2000E/1000E/HD2100/HD2200 vNTA
Software Version	V4.5R90F02SP04
Upgrade File	update_nta_V4.5R90F02SP04.201117build41787.bin (MD5 value: 1c6192a6ce81d1fc9e7e5a73e6e13f2d)
Release Date	2020-11-17
How to Obtain	Obtain the upgrade file from the upgrade system or contact NSFOCUS technical support.

2. Version Mapping

Hardware Model	<ul style="list-style-type: none"> NTA NX3-2000E/1000E (NSF-2800) NTA NX3-HD2100/HD2200 (C236)
ADS	<ul style="list-style-type: none"> V4.5R90F02 V4.5R90F02SP01 V4.5R90F02SP02 V4.5R90F02SP03 V4.5R90F02SP04
ADS M	V4.5R90F02SP04
NTA-ATM	V4.5R89F03
MagicFlow	V4.5R90F01SP01
Threat Analysis Traceback (TAT)	V2.0.0
Client Browser	<ul style="list-style-type: none"> Chrome Firefox
Documentation	None

3. New Requirements

No.	Requirement Description
1	Custom SNMP OIDs are supported for routers.
2	Operations on the diversion routing table can be performed in bulk.
3	Customer-provided SSL certificates can be imported.
4	A valid license can be previewed before it is verified.
5	Log email contents are optimized.
6	Logs uploaded to the cloud cleaning platform are optimized.

4. New Functions

4.1 SNMP OID Customization for Routers

Description

NTA obtains the CPU usage and memory usage of routers through SNMP and present them. SNMP OIDs are specific to enterprises as different vendors or even different device models from the same vendor have different SNMP OIDs. This new version allows users to specify SNMP OIDs in support of various devices from more vendors.

Configuration and Use

The SNMP OID customization function is added to the SNMP configuration area of the route configuration page, allowing you to specify the CPU usage OID and memory usage OID for a router.

You can obtain the router's memory usage in either of the following ways:

1. Specify the memory usage OID of a router.
2. Calculate the memory usage based on the total memory, used memory, and idle memory. For this purpose, you need to type at least two of the following OIDs during SNMP configuration: OID of the total memory, OID of the used memory, and OID of the idle memory.

Figure 1-1 Specifying custom SNMP OIDs

Basic Information	Flow Configuration	SNMP Configuration	Router Alert Configuration	Traffic Statistics
1	2	3	4	5
SNMP Collection		<input checked="" type="checkbox"/> Enable		
SNMP Collection IP		<input type="text" value="3.3.3.3"/> Allow IPv4/IPv6		
Vendor		<input type="text" value="Cisco"/>		
SNMP Version		<input type="text" value="v1"/>		
Community		<input type="text"/>		
Custom OID		<input checked="" type="checkbox"/> Enable		
CPU Usage OID		<input type="text"/>		
Memory Usage Computation Method		<input type="radio"/> Usage OID <input checked="" type="radio"/> Numerical OID ?		
Total Memory OID		<input type="text"/>		
OID of Used Memory		<input type="text"/>		
OID of Idle Memory		<input type="text"/>		
		<input type="button" value="Back"/> <input type="button" value="Next"/>		

4.2 Bulk Operation on the Diversion Routing Table

Description

In earlier versions, when it comes to diversion delivery or withdrawal, users need to dispatch or disable diversion rules one by one. They find the operations troublesome and expect these operations to be performed in bulk.

Configuration and Use

The screenshot shows the NTA configuration interface. At the top, there are navigation tabs: Overview, Regions, Routers, Router Interface Groups, IP, Routing Table, Traffic auto-learning, and Machine Status. The 'Routing Table' tab is active. Below the tabs, there are sub-tabs for IP Diversion, FlowSpec Diversion, Group Diversion, Manual Traffic Diversion, and FlowSpec Manual Traffic Diversion. A red box highlights the 'Add Bulk Diversion' button in the top right corner. Below the sub-tabs is a table with the following columns: Diversion IP, Diversion Subnet Length, Diversion Duration:Min, Diversion Type, Diversion Details, and Operation. The table contains 10 rows of data, each representing a diversion rule. The first column of the table is highlighted with a red box.

Diversion IP	Diversion Subnet Length	Diversion Duration:Min	Diversion Type	Diversion Details	Operation
1.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]
2.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]
3.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]
4.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]
5.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]
6.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]
7.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]
8.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]
9.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]
10.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]
11.1.1.1	32	Unlimited	Null-Route Diversion	Name: test_pthm Next-hop IP Address: 11.11.11.11	[Add] [Edit] [Delete]

The screenshot shows the 'Result' dialog box. It contains a table with the following columns: Diversion IP, Result, and Remark. The table contains 10 rows of data, each representing a diversion rule. The 'Result' column for all entries shows a green checkmark, indicating that the diversion rules were successfully added.

Diversion IP	Result	Remark
1.1.1.1/32	✓	
2.1.1.1/32	✓	
3.1.1.1/32	✓	
4.1.1.1/32	✓	
5.1.1.1/32	✓	
6.1.1.1/32	✓	
7.1.1.1/32	✓	
8.1.1.1/32	✓	
9.1.1.1/32	✓	
10.1.1.1/32	✓	

Close

The screenshot shows the 'FlowSpec Manual Traffic Diversion' configuration page in the NTA interface. A table lists diversion rules. The 'Name' column has a red box around it. The 'Alert ID' column has a red box around the value 'N/A'. The 'Region/IP Group' column has a red box around the value 'Default Diversion Policy'. The 'Diversion Holding Time(Min)' column has a red box around the value '5'. The 'Source IP' column has a red box around the value '1.2.3.1/32'. The 'Source Port' column has a red box around the value '123'. The 'Destination IP' column has a red box around the value 'N/A'. The 'Destination Port' column has a red box around the value 'N/A'. The 'Protocol' column has a red box around the value 'N/A'. The 'FlowSpec BGP' column has a red box around the value 'xc'. The 'Action' column has a red box around the value 'discard'. The 'Operation' column has a red box around the value 'redirect 123.456'. A 'Bulk Diversion' button is highlighted with a red box.

Name	Alert ID	Region/IP Group	Diversion Holding Time(Min)	Source IP	Source Port	Destination IP	Destination Port	Protocol	FlowSpec BGP	Action	Operation
ci	N/A	Default Diversion Policy	5	1.2.3.1/32	123	N/A	N/A	N/A	xc	discard	
si	N/A	Default Diversion Policy	Unlimited	N/A	123	N/A	N/A	N/A	xc	redirect 123.456	

The screenshot shows the 'IP Diversion' configuration page in the NTA interface. A table lists diversion rules. The 'Diversion IP Range' column has a red box around it. The 'Region/IP Group' column has a red box around the value 'Default Diversion Policy'. The 'Current Alert' column has a red box around the value 'N/A'. The 'Trigger Strategy' column has a red box around the value 'N/A'. The 'Trigger Traffic' column has a red box around the value 'N/A'. The 'Current Attack Traffic' column has a red box around the value 'tpe:0 ppt:0'. The 'Diversion Mode' column has a red box around the value 'Manual IP Diversion'. The 'Diversion Type' column has a red box around the value 'ADS'. The 'Diversion Target(BGP next-hop IP address)' column has a red box around the value 'ADS'. The 'Start Time' column has a red box around the value '2020-11-23 10:29:57'. The 'Diversion Holding Time (Min)' column has a red box around the value 'Ongoing'. The 'Processing Status' column has a red box around the value 'Processed'. The 'Remark' column has a red box around the value 'N/A'. The 'Operation' column has a red box around the value 'Withdraw Diversion'. A 'Bulk Withdraw Diversion' button is highlighted with a red box.

Diversion IP Range	Region/IP Group	Current Alert	Trigger Strategy	Trigger Traffic	Current Attack Traffic	Diversion Mode	Diversion Type	Diversion Target(BGP next-hop IP address)	Start Time	Diversion Holding Time (Min)	Processing Status	Remark	Operation
36.1.1.16/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	
36.1.1.15/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	
36.1.1.14/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	
36.1.1.13/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	
36.1.1.12/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	
36.1.1.11/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	
36.1.1.10/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	
36.1.1.9/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	
36.1.1.8/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	
36.1.1.7/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	
36.1.1.6/32	Default Diversion Policy	N/A	N/A	N/A	tpe:0 ppt:0	Manual IP Diversion	ADS	ADS	2020-11-23 10:29:57	Ongoing	Processed	N/A	

The screenshot shows the 'FlowSpec Diversion' configuration page in the NTA interface. A table lists diversion rules. The 'Name' column has a red box around it. The 'Alert ID' column has a red box around the value 'N/A'. The 'Region/IP Group' column has a red box around the value 'Default Diversion Policy'. The 'Protocol' column has a red box around the value 'N/A'. The 'Source IP' column has a red box around the value '1.2.3.1/32'. The 'Source Port' column has a red box around the value '123'. The 'Destination IP' column has a red box around the value 'N/A'. The 'Destination Port' column has a red box around the value 'N/A'. The 'Start Time' column has a red box around the value '2020-11-23 10:33:02'. The 'Diversion Holding Time(Min)' column has a red box around the value '4'. The 'Packet Length' column has a red box around the value 'N/A'. The 'Action' column has a red box around the value 'discard'. The 'FlowSpec BGP' column has a red box around the value 'xc'. The 'Processing Status' column has a red box around the value 'Processed'. The 'Operation' column has a red box around the value 'Withdraw Diversion'. A 'Bulk Withdraw Diversion' button is highlighted with a red box.

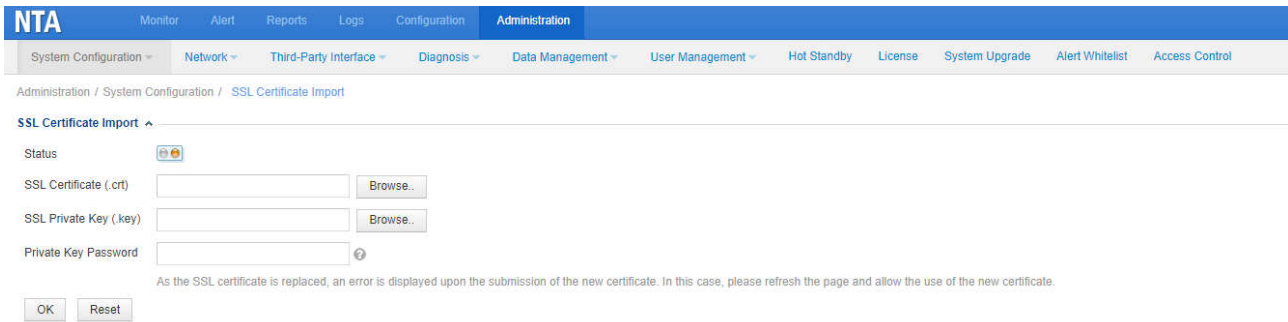
Name	Alert ID	Region/IP Group	Protocol	Source IP	Source Port	Destination IP	Destination Port	Start Time	Diversion Holding Time(Min)	Packet Length	Action	FlowSpec BGP	Processing Status	Operation
ci	N/A	Default Diversion Policy	N/A	1.2.3.1/32	123	N/A	N/A	2020-11-23 10:33:02	4	N/A	discard	xc	Processed	
si	N/A	Default Diversion Policy	N/A	N/A	123	N/A	N/A	2020-11-23 10:33:02	Unlimited	N/A	redirect 123.456	xc	Processed	

4.3 Import of Customer-Provided SSL Certificates

Description

As NTA uses a self-signed SSL certificate, when a user accesses it via a browser, the browser prompts that the certificate is not a trusted one. In response to this issue, some customers demand that NTA support the import of a certificate of their registered domain names.

Configuration and Use



NTA Administration

System Configuration Network Third-Party Interface Diagnosis Data Management User Management Hot Standby License System Upgrade Alert Whitelist Access Control

Administration / System Configuration / SSL Certificate Import

SSL Certificate Import

Status

SSL Certificate (.crt) Browse..

SSL Private Key (.key) Browse..

Private Key Password

As the SSL certificate is replaced, an error is displayed upon the submission of the new certificate. In this case, please refresh the page and allow the use of the new certificate.

OK Reset

4.4 Preview of an Imported License Prior to License Verification

Description

In earlier versions, NTA allows users to preview the license after the license is verified. This makes it difficult to determine causes of license import failures. In this version, license preview precedes license verification. That is to say, as long as the license is a valid one provided by NSFOCUS, it will be parsed for preview before license verification.

Configuration and Use

License Preview	
License No.	65AC [REDACTED] D2F
License Type	Trial License
Monitored Devices	80
Max Flow Rate	60000 flows/s
Authorization Object	NTA 1000E
Start Date	2020-11-01
End Date	2022-12-10

5. Fixed Bugs

- 189939: The traffic is incorrectly recorded in diversion withdrawal logs generated during the switch of a diversion rule.
- 189937: Diversion rules for protection groups are switched before the diversion holding period expires.
- 171930: After a virtual IP address is configured for C236 working in HA mode, restarting C236 will write the IP address persistently to interface configuration files.
- 181496: A router is selected for **Routers** by default on the **Search** page under **Alert**.
- 190862: The HSTS Missing From HTTPS Server vulnerability is fixed.

6. Upgrade Procedure

Note: You must upgrade in strict accordance with the upgrade path.

The upgrade procedure is as follows:

Step 1 Log in to the web-based manager of NTA and choose **Administration > System Upgrade**.

Step 2 Browse to **update_nta_V4.5R90F02SP04.201117build41787.bin** and click **Upload**.

Step 3 Read upgrade notes and click **Confirm Upgrade** to start the upgrade.

The upgrade takes about 5 minutes. After the upgrade is complete, refresh the current page. Click **About** in the upper-right corner of the web-based manager to check the current system version. If **Product Version** is **V4.5R90F02SP04.201117build41787**, the upgrade succeeded. If not, the upgrade failed and you need to contact NSFOCUS technical support.

---End

It is normal that the following situations arise in the upgrade process:

1. The web-based manager displays an error message "502 Bad Gateway" for or directly denies your access request.
2. All services stop running.
3. The upgrade takes about 5 minutes. If the page remains unresponsive after 5 minutes, you need to manually refresh the page.

Note that the system will automatically restart after the installation is complete.

7. Upgrade Path

