Release Notes

1. Basic Information

Device Model	NTA NX3-2000E/1000E/HD2100/HD2200 NTA VM
Software Version	V4.5R90F01SP05
Upgrade File	update_nta_V4.5R90F01SP05.190926build32477.bin MD5: 318F31D1C4F5E5FB0860E1F7C5BFCDF4
Release Date	2019-09-30
How to Obtain	Obtain the upgrade file from the upgrade system or contact NSFOCUS technical support.

2. Version Mapping

Product Model	NTA NX3-2000E/1000E (NSF-2800) NTA NX3-HD2100/HD2200 (C236)
ADS	V4.5.88.15, V4.5R90F01, V4.5R90F01SP01, V4.5R90F01SP02, V4.5R90F01SP03, V4.5R90F01SP04, V4.5R90F01SP05, V4.5R90F01SP06, V4.5R90F01SP07
ADS M	V4.5R90F01SP06, V4.5R90F01SP07, V4.5R90F01SP08
NTA-ATM	V4.5R89F03
Threat Analysis and Traceback System (TAT)	V2.0.0
Client Browser	Chrome Firefox IE 10
Documentation	NSFOCUS NTA Installation Guide/User Guide (V4.5R90F01)

3. Satisfied Requirements

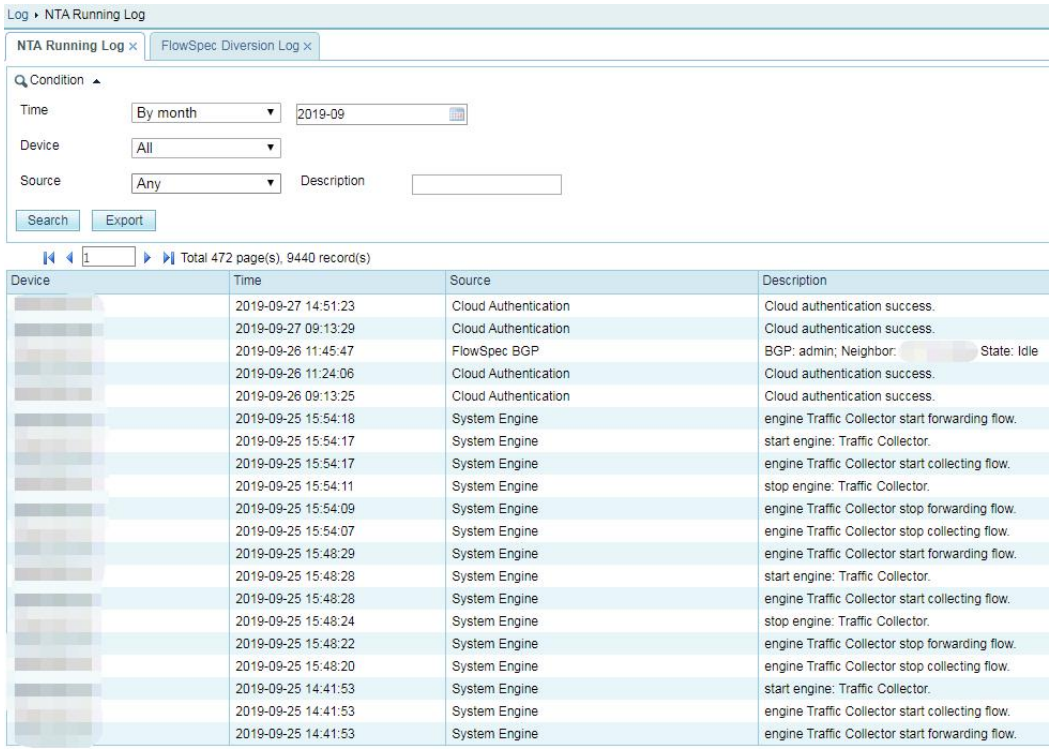
No.	Requirement Description
1	System operating logs and FlowSpec diversion logs can be sent to ADS M.
2	IPFIX packets support variable-length fields.

4. New Functions

4.1 System Operating Logs and FlowSpec Diversion Logs Can Be Sent to ADS M

NTA sends its own operating logs and FlowSpec diversion logs every minute in an incremental way. You can choose **Administration > Third-Party Interface > Management Mode** to configure ADS M.

After NTA is configured on ADS M, you can view NTA's operating logs and FlowSpec diversion logs on ADS M about 1 minute later.



It should be noted that NTA sends logs generated in the last minute to ADS M. Therefore, after the NTA is upgraded and ADS M configuration is complete, NTA only sends logs generated in the last minute to ADS M, instead of sending all previous logs.

4.2 IPFIX Packets Support Variable-Length Fields

As NTA before V4.5R90F01SP05 cannot parse the variable-length field **VRFname**, it cannot properly parse packets and its anomaly detection function cannot work properly.

More often than not, **VRFname** is a field of the string type. As NTA does not handle variable-length fields, once discovering a variable-length field in an IPFIX packet, NTA ignores it and continues to analyze subsequent data according to protocol-specific rules.

It is noteworthy that NTA saves IPFIX templates locally. NTA before V4.5R90F01SP05 cannot parse variable-length fields, and thus saves different templates than those on NTA V4.5R90F01SP05. If NTA has saved a template before the upgrade to V4.5R90F01SP05 and does not receive a template packet to update this template after upgrade, a parsing error will occur and can disappear only after the template packet is received to update the template.

5. Fixed Bugs

Bug ID	Bug Description
Bug 160494	The diversion switching function does not work.
Bug 159926	Automatic learning results show incorrect IP group names.
Bug 159693	The automatic learning function does not work properly.
Bug 158839	The system status data is not recorded.
Bug 159020	Sometimes, an improper diversion rule is applied for a destination IP address.
Bug 162349	When detecting attacks, NTA generates a great many logs as it fails to obtain the automatically learned traffic threshold.
Bug 163195	Spelling mistakes exist in the prompt message indicating a cloud authentication failure.
Bug 162451	On the **Machine Status** page under **Monitor**, no data is displayed in the **System Status** area.
Bug 163178	Specified region names cannot be retrieved with the search function.
Bug 163637	The IP address range for which diversion is conducted is not properly displayed on the **IP Diversion** page under **Monitor > Routing Table**.

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_V4.5R90F01SP05.190926build32477.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 **V4.5R90F01SP05.190926build32477**, 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 during upgrade:

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

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

7. Upgrade Path