

TXOne Release Note- Firmware



Product type	Industrial EdgeIPS	Release Date	2021/09/27
1. Release version <ul style="list-style-type: none">● Firmware name: ips.fw.g02_IPS_G02_1.3.5.acf● Version: IPS_G02_1.3.5● Revision: 0a1f3a7a● SHA256 Checksum: b47b60bcfcb9925b95bf0303b02b3110d26bc57001285da664de1a30e77ff286● Signature info: TM_210825_22			
2. Applied models <ul style="list-style-type: none">● Platform: ARM64<ul style="list-style-type: none">- IPS-102-BP-TM			
3. Release info <ul style="list-style-type: none">● TOS: ips_g02_1.3.5● Platform (imx8mm): ips_g02_1.3.5● Import: ips_g02_1.3.5● TDTS: ics/2.6.19 A. Support Features (since FW 1.2.4) <ul style="list-style-type: none">● [New Feature] - Device Rule List and Master Rule List supported in [Policy Enforcement Rule] page.● [New Feature] - Basic and Advanced Filter supported in [Policy Enforcement Rule] page.● [New Feature] - Device Profiles and Master Profiles supported in [IP objects], [Service objects], [Protocol Filter Profiles], [IPS Profiles] and [File Filter Profiles] pages.● [New Feature] - Added File Filter Profiles● [New Feature] - Support packet capture● [New Feature] - Support CLI command for the below feature<ul style="list-style-type: none">● Network > Device Settings● Object Profiles > IP Object Profiles● Object Profiles > Service Object Profiles● Security > Policy Enforcement● ODC Setting● SNMP● Time and Date● Device Reboot● Switch Firmware partition● System Management● System Information● [New Feature] - MELSOFT protocol advanced filtering:<ul style="list-style-type: none">● 10 OT protocols supported in protocol level.<ul style="list-style-type: none">▪ HART-IP▪ OPC-UA▪ OPC-Classic▪ BACnet▪ DNP3			

- IEC-104
 - GE-SDI
 - GE-SRTP
 - HL7
 - DICOM
- 10 general protocols supported in protocol level.
 - MS-RPC
 - DNS
 - SNMP
 - TELNET
 - SMTP
 - SIP
 - MQTT
 - SSH
 - TFTP
 - VNC
- 1 general protocol supported in advanced level.
 - SMB
- [New Feature] - Support auto rule learning
- [New Feature] - New protocols by signature update in [Protocol Filter Profile] page.
- [New Feature] - Support SNMP
- [New Feature] - Default IPS profile will be generated when the setting is factory default setting.
- [New Feature] - Device Rule List and Master Rule List supported in [Policy Enforcement] page.

B. Improvement

- [Enhancement] - Release note download in the pattern update page
- [Enhancement] - IPS Rule metadata download in pattern update page
- [Enhancement] - Support pattern encyclopedia and MITRE ATT&CK ID in pattern update page
- [Enhancement] - Support two USB disk (industrial grade) models
 - Innodisk USB driver 2SE
 - Apacer USB 3.0 16GB
- [Enhancement] - Support remote access from ODC-VA to the device.
- [Enhancement] - Added Bandwidth Utilization and Packet Transmission Status in [System] page
- [Enhancement] - Added LLDP settings in [Device Settings] page.
- [Enhancement] - Support enable/disable ping in [System Management] page
- [Enhancement] - Support file filter logs in [File Filter Logs] page

C. Bug Fix

- [TXN-3928] - [RDQA Page] Download Debug log for too long a time
- [TXN-3965] - [Bypass] Took 11 seconds to change bypass mode after rebooting

D. Known issues

- [TXN-1743] - Show maintenance page in short time after upgrade from 1.0.8 to 1.1.5
- [TXN-1760] - ODC 1.0.x cannot apply config to IPS devices w/ new 1.1.x FW
- [TXN-1767] - Command/function category of the OT protocols will get wrong mapping when IPS 1.1 uses previous pattern of which the version < 200723_15
- [TXN-2956] - Login failed after FW switch partition from 1.0.8 to 1.2.0
- [TXN-3729] - [Applications > Packet Capture] The VLAN Item Format in Captured Pcap File could Miss One Layer Information

E. SW limitation

- Policy enforcement cannot block ICMP rules which are based on reversed direction
- Limited support of VLAN QinQ traffic: only support 802.1Q (0x8100) and 802.1ad (88A8)
- Active query of assets in inline mode
 - The subnets of MGMT and data MUST be the same
 - Fixed service ports are used: MODBUS (TCP: 502), CIP (TCP: 44818), FINS (TCP: 9600) and SMB (TCP: 445)
 - The queried asset MUST be a server and can send back expected responses to EdgeIPS according to our query commands

F. Notes

- In current design, when service object is set to 'ICMP' and action is set to 'Deny', it won't work if 'Type/Code' are set as response categories or they are related to the other connection.

Comments :