TXOne Release Note-Firmware



Product type Industrial EdgeIPS Release Date 2021/09/27

1. Release version

• Firmware name: ips.fw.g02_IPS_G02_1.3.5.acf

Version: IPS_G02_1.3.5Revision: 0a1f3a7aSHA256 Checksum:

b47b60bcfcb9925b95bf0303b02b3110d26bc57001285da664de1a30e77ff286

• Signature info: TM 210825 22

2. Applied models

Platform: ARM64

- IPS-102-BP-TM

3. Release info

• **TOS**: ips_g02_1.3.5

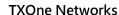
• **Platform (imx8mm):** ips_g02_1.3.5

• **Import:** ips_g02_1.3.5

• **TDTS:** ics/2.6.19

A. Support Features (since FW 1.2.4)

- [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
 - 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:
 - 10 OT protocols supported in protocol level.
 - 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
 - V/N/C
- 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 to 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: