Release Version: 2025r1.01 Release Date: 2025/02/27 System version: v1.4.5115

- Features:
  - Add authentication mechanisms functionality confirmation for SSH (OnSec-TC-05011001)
- Enhancement:
  - More CVEs support.
- Bug fixed:
  - Fixed the ineffective test case (OnSec-TC-03011005 OpenSSH User Enumeration) caused by using the wrong version of the Paramiko library.
  - Fixed the issue where SecDevice did not wait long enough for the DUT to reboot.
  - Fixed the issue in the Wi-Fi WPS key crack test case, where the DUT was ignored if it did not send vendor information in the beacon packet.

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Release Version: 2024r4.01-Hoxfixed Release Date: 2025/01/06 System version: v1.4.5108

- Optimization:
  - Refine the core of fuzzer module to prevent took too much time when error pattern locating after DUT crash.
- Bug fixed:
  - Fixed that didn't wait enough time after reboot DUT reboot when the power switch module connected.
  - Fixed the syntax error in OSPF and RIP fuzzer module.
  - Fixed the fuzzer module can't recognize correct network interface issue.

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Release Version: 2024r4.01

Release Date: 2024/11/27

System version: v1.4.5107

- Enhancement:
  - Enhanced Wi-Fi WPS Key crack testcase (OnSec-TC-04003001).
  - Unified the timeout value of fuzzing testcases to 180 seconds, to prevent false alert due to the unstable or build-in firewall of DUT.
    - OnSec-TC-01003012 IPv6 TCP Fuzz Testing
    - OnSec-TC-01003013 IPv6 UDP Fuzz Testing
    - OnSec-TC-01003014 IPv6 ICMP Fuzz Testing
    - OnSec-TC-01003015 IPv6 Fuzz Testing
    - OnSec-TC-01004001 EDSA IPv4 Fuzz Testing
    - OnSec-TC-01004002 EDSA IPv4 TCP Fuzz Testing
    - OnSec-TC-01004003 EDSA IPv4 UDP Fuzz Testing
    - OnSec-TC-01004004 EDSA IPv4 ICMP Fuzz Testing
    - OnSec-TC-01005001 IEC61850 MMS Fuzz Testing

<ul> <li>OnSec-TC-01005002 IEC61850 GOOSE Fuzz Testing</li> <li>OnSec-TC-01005003 IEC61850 SV Fuzz Testing</li> <li>OnSec-TC-01005008 GOOSE Certification Testing</li> <li>OnSec-TC-01008001 IGMPv3 Query Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-01005008 GOOSE Certification Testing</li> </ul>	
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<ul> <li>OnSec-TC-01008001 IGMPv3 Query Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-01008002 IGMPv3 Report Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-01008003 OSPFv2 Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-01008004 RIPv2 Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-01008005 LLDP Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-01009001 EDSA ARP Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-01010001 EDSA Ethernet Fuzz Testing</li> </ul>	
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OnSec-TC-03003006 TLSv1.2 Server Fuzz Testing	
<ul> <li>OnSec-TC-03003007 TLSv1.3 Server Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-03004002 UPnP Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-03005004 NETBIOS-SSN Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-03006004 NTP Server Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-03007002 RTSP Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-03007003 ONVIF Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-03008002 FTP Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-03010009 DNS Server Fuzz Testing</li> </ul>	
• OnSec-TC-03010010 DNS Server Zone Transfer Fuzz Te	sting
<ul> <li>OnSec-TC-03011006 SSH Fuzz Testing</li> </ul>	0
<ul> <li>OnSec-TC-03013002 Telnet Server Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-03015001 RTCP Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-03016001 SNMPv3 Fuzz Testing</li> </ul>	
<ul> <li>OnSec-TC-03016002 SNMPv1 Fuzz Testing</li> </ul>	
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<ul> <li>OnSec-TC-03016005 PPTP Fuzz Testing</li> </ul>	
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<ul> <li>OnSec-TC-03018001 IEC104 Fuzz Testing</li> </ul>	
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- OnSec-TC-03033002 BFD Server Fuzz Testing
- OnSec-TC-03034001 RADIUS Server Fuzz Testing
- OnSec-TC-03034002 RADIUS Server Accounting Fuzz Testing
- OnSec-TC-03035001 IKEv2 Server Fuzz Testing
- OnSec-TC-03036001 IPMI Server Fuzz Testing
- OnSec-TC-03037001 FINS Server Fuzz Testing
- OnSec-TC-03038001 NFSv4 Server Fuzz Testing
- OnSec-TC-03039001 VLAN Server Fuzz Testing
- OnSec-TC-03040001 S7comm Server Fuzz Testing
- OnSec-TC-03041001 IPsec Fuzz Testing
- OnSec-TC-03044001 DICOM Fuzz Testing
- OnSec-TC-03044002 MQTT Fuzz Testing
- OnSec-TC-03044003 CIP Fuzz Testing
- OnSec-TC-03044004 HL7v2 Fuzz Testing
- OnSec-TC-03044005 HL7v3 CDAr2 Fuzz Testing
- OnSec-TC-03044006 HL7v3 FHIR Fuzz Testing
- Bug fixed:
  - Fixed the abnormal function of check button when create new web target in Website Configuration page.

Release Version: 2024r3.01 Release Date: 2024/09/27 System version: v1.4.5074

- Features:
  - Update Machine-id to identify the version.
- Enhancement:
  - More CVEs supports.
  - Update CVE automation flow and structure for latest test items.
  - Update the result validation for EDSA test case.
  - Update the frontend DEKRA Logo.
- Bug fixed:
  - Fix Vlan test case Pre-check packet mechanism(OnSec-TC-03039001).

Release Version: 2024r2.02 Release Date: 2024/06/17

System version: v1.4.5038

- Features:
  - Add Wi-Fi WPA3 client mode fuzz testing (OnSec-TC-04005005)
  - Add Wi-Fi WPA3 AP mode fuzz testing (OnSec-TC-04005006)
- Enhancement:
  - More CVEs supports.
  - Update when loop enable remain time change to loop time countdown.

-Bug fixed:

- Remove the problematic characters in HL7v3 FHIR fuzzing policy.
- Remove the skip and loop frontend interfaces in the WF module.

- Remove the skip and loop frontend interfaces in the WA module.

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Release Version: 2024r2.01 Release Date: 2024/05/17 System version: v1.4.5019

- Features:
  - Add a test case for HL7 CDAR2
  - Add a test case for HL7 FHIR
  - Add a test case for TLS1.3
  - Remove the AI Fuzz Testing test case
- Enhancement:
  - More CVEs supports.
  - Modify log message about skip and loop function
- Bug fixed:
  - Fix the nmap issue
  - Fix jlog bug and loop error
  - Remove unnecessary logs and Fix crash caused by excessive logging

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Release Version: 2024r1.01 Release Date: 2024/03/07 System version: v1.4.4900

- Features:
- None
- Enhancement:
   More CVEs supports.
- Bug fixed:
   Fix add\_report bug.

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Release Version: 2023r2.01 Release Date: 2023/07/04 System version: v1.4.4882

• Features:

- None

- Enhancement:
  - More CVEs supports.
  - Enhance the testing with the Juniper Routers as DUTs of the TestCase: RIPv2 Fuzz Testing.
  - Loose the waiting time, when a WiFi client tries to connect to SecDevice.
- Bug fixed:
  - Fix an eternity loop bug about the TestCase: Known Vulnerability Testing.

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Release Version: 2023r1.01 Release Date: 2023/03/24 System version: v1.4.4816

- Features:
  - None

- Enhancement:
  - More CVEs supports.
  - Loose the check timing of the TestCase: RTSP Fuzz Testing.
  - Loose the check timing of the TestCase: OSPFv2 Fuzz Testing.
  - Loose the check timing of the TestCase: RIPv2 Fuzz Testing.
- Bug fixed:
  - Fix a PowerSwitch control problem, while the SecDevice is doing a fuzzing backward test.

Release Version: 2022r4.01 Release Date: 2022/12/20 System version: v1.4.4762

- Enhancement:
  - More CVEs supports.

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Release Version: 2022r3.01 Release Date: 2022/10/04 System version: v1.4.4762

- Enhancement: - More CVEs supports.
- Bug fixed:
   SecDeviece log Front-end layout adjustment

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Release Version: 2022r2.01 Release Date: 2022/06/30 System version: v1.4.4758

- Features:
  - Support HL7 Analysis.
  - Support GeoIP Testcase.
  - Support Profinet TestCase.
- Enhancement:
  - More CVEs supports.
  - Loose the check timing of the TestCase: EDSA ARP Translation Cache Flood.
  - Enhance auto ip detection.
  - Enhance UDP Fuzzing mechanism.
- Bug fixed:
  - Fix databaselock on boot.
  - Fix ja\_JP locale translation.
  - Fix firmware uploading failed issues.
  - Fix export issues.
  - Fix Web Assessment bug.

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Release Version: 2021r4.01 Release Date: 2021/11/18 System version: v1.4.4661

• Features:

- Support source IP Geolocation Analysis.
- Support ONVIF Protocol Fuzz Testing.
- Enhancement:

- Enhanced Command Injection judgment mechanism, add padding data for determine.

- Bug fixed:
  - Fixed Known Vulnerability Testing always restart issue.
  - Fixed main website could not startup normally issue.
  - Fixed Network Configuration setting issue.
  - Fixed IPsec Fuzz Testing (Policy 04) occurred error issue.
  - Fixed DNS Server Fuzz Testing parsing packet detail error issue.
  - Fixed Fuzz Testing occurred wrong number of pattern issue.
  - Fixed UDP Fuzz Testing testcase occurred system crash.

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Release Version:	2021r3.01
Release Date:	2021/8/3
System version:	v1.4.4352

- Features:
  - Support fuzzing new protocol- OSPFv2 (Routing protocol)
  - Mapping test case into OWASP IOT top 10
     Support
    - I1: Weak, Guessable, or Hardcoded Passwords
    - 12: Insecure Network Services
    - I3: Insecure Ecosystem Interfaces
    - I4: Use of Insecure or Outdated Components
    - 17: Insecure Data Transfer and Storage
    - User can get OWASP IOT top 10 PDF report
- Enhancement:
  - Html report now will show every targets host information if every target's testcase are pass.
  - Html report now will show every targets host information even if some target's testcase are failed.
  - General PDF report will show every targets host information if every target's testcase are pass.
- Bug fixed:
  - Fixed manual crawling web can't work normally in some conditions

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- known vulnerability can't not run issue.

Release Version:	2021r2.02
Release Date:	2021/5/26
System Version:	v1.4.4300

- Features:
  - New version of PDF report(Support OWASP web top 10)
- Enhancements:
  - FW upload support larger than 2 GB of FW size(VM version)
  - SSL/TLS Weak Cipher Algorithm testcase substitute by SSL/TLS service category (25 testcases)

- Bug fixed:
  - Known vulnerability scan result parse error(VM version)

- Fixed some security vulnerability

Release Version:	2021r2.01
Release Date:	2021/5/6
System Version:	v1.4.4267

- Enhancements:
  - Packet Information support for all protocol fuzzing testcase
  - known vulnerabilities scan engine upgrade, improve scan availability.
  - Following protocol fuzzing pattern up to 100000
    - MMS,GOOSE,SV,DNP3,Ethernet,IPv4,TCP, UDP,ICMP ,ARP
- Bug fixed:
  - OnSec-TC-04003001 WPS Crack Testing N/A (VM version)

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Release Version:	2021r1.02
Release Date:	2021/3/22
System Version:	v1.4.4192

- Features:
  - provide 1 ssl testcase
    - blowfish algorithm testing
- Enhancements:
  - modbus fuzzing testing
    - up to 500,000 fuzzing pattern
- Bug fixed:
  - portlist problem

Release Version:	2021r1.01
Release Date:	2021/2/22
System Version:	v1.4.4137

- Features
  - Support CIP protocol fuzz testing
  - Provide 2 of SSH Security test cases:
    - RC2, RC4 Algorithm Testing
    - Provide 12 of HTTPS Security test case.
    - RC2, RC4 Algorithm Testing
    - DES,3DES
    - Key Length of Asymmetric and Symmetric Algorithm Testing
    - DROWN
    - Lucky Thirteen Attack (LUCKY13)
    - ROBOT
    - SSL 64-bit Block Size Cipher Suites Supported (SWEET32)
    - IDEA, CBC Mode Algorithm Testing
- Enhancements
  - improve WiFi testing coverage
    - client fuzz new policy :

- Deauthentication
- Disassociation
- wpa client fuzz new policy:
  - Deauthentication
- ap fuzz new policy : a
  - Reassociation Request
- wpa ap fuzz new policy :
  - Reassociation Request
  - User can setup specified vlan id for VLAN Fuzz testing
  - Packet Information support fuzz protocol
  - Ipv6\_tcp, ipv6\_udp, ipv6\_icmp, mms, goose, sv, dnp3\_tcp, dnp3\_udp, modbus\_tcp, edsa\_arp, edsa\_icmp

Release Version:	2020r3.04
Release Date:	2020/12/23
System Version:	v1.3.0.3998

Features

- Provide more coverage of HTTPS Security test case:
  - Check two weak cipher Twofish algorithm and HMAC algorithm
  - Browser Exploit Against SSL/TLS Attack (BEAST)
  - Logjam
- Enhancements
  - Support all protocol fuzzing speed adjustment
  - More CVE supports

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Release Version:	2020r3.03
Release Date:	2020/11/18
System Version:	v1.3.0.3958

## • Features

- Provide user-defined options to failure condition in the following test cases:
  - TCP-SYN Scan
  - UDP Port Scan
  - TCP-FIN Scan
- Provide new test cases in the following test cases:
  - DICOM Fuzz Testing
  - MQTT Fuzz Testing
  - Auto Detect functional structure adjustment.

Release Version:	2020r3.02
Release Date:	2020/10/21
System Version:	v1.3.0.

- Features
  - Provide Grouping function to All Fuzzing test cases.
  - More coverage of HTTP Fuzzing test case.

- Add Error locate function to all Fuzzing test cases.
- Enhance TLSv1.2 Server Fuzz Testing to support stateful testing.
- Enhance All Pages Cross Site Request Forgery (CSRF) test cases to support user define tokens.

Release Version:	2020r3.01
Release Date:	2020/09/23
System Version:	v1.3.0.3895

- Features
  - Provide new testcases and enhanced testcases:
    - Certificate Signing Algorithm
    - FREAK
    - POODLE
    - TLSv1/SSLv3 Renegotiation Vulnerability
    - Transport Layer Security (TLS) Protocol CRIME
  - Provide enhanced testcases:
    - Heartbleed
    - ChangeCipherSpec Injection
  - Provide fuzzing pattern grouping function in the following test cases:
    - DHCPv4 Server Fuzz Testing
    - DHCPv6 Server Fuzz Testing
    - DNS Server Fuzz Testing
    - DNS Server Zone Transfer Fuzz Testing
    - NTP Server Fuzz Testing
    - IPv6 Fuzz Testing
    - IPv6 ICMP Fuzz Testing
    - VLAN Fuzz Testing
    - IGMPv3 Query Fuzz Testing
    - IGMPv3 Report Fuzz Testing
    - UPnP Fuzz Testing
    - FTP Fuzz Testing
    - TFTP Server Fuzz Testing
    - SNMPv1 Fuzz Testing
    - SNMPv1 Trap Fuzz Testing
    - EDSA Ethernet Fuzz Testing
    - EDSA IPv4 ICMP Fuzz Testing
    - EDSA IPv4 UDP Fuzz Testing
    - EDSA IPv4 TCP Fuzz Testing
    - IPv6 UDP Fuzz Testing
    - IPv6 TCP Fuzz Testing
    - HTTP Fuzz Testing
    - SSH Fuzz Testing
    - EDSA ARP Fuzz Testing
    - EDSA IPv4 Fuzz Testing
    - SNMPv2 Fuzz Testing
    - SNMPv3 Fuzz Testing
    - Telnet Server Fuzz Testing

- CoAP Server Fuzz Testing
- IPsec Fuzz Testing
- IPMI Server Fuzz Testing
- IKEv2 Server Fuzz Testing
- FINS Server Fuzz Testing
- BGP Server Fuzz Testing
- BFD Server Fuzz Testing
- SIP UAS Fuzz Testing
- SV Fuzz Testing
- OPCUA Fuzz Testing
- OCSP Server Fuzz Testing
- LDAPv3 Server Fuzz Testing
- IEC104 Fuzz Testing
- GOOSE Fuzz Testing
- EtherNet/IP Messaging Fuzz Testing
- DNP3 TCP Fuzz Testing
- DNP3 UDP Fuzz Testing
- CWMP (TR69) ACS Fuzz Testing
- BACnet Fuzz Testing
- Fixed Issues
  - Fix Known Vulnerability Testing can not update database issue.

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Release Version:	2020r2.04
Release Date:	2020/08/26
System Version:	v1.3.0.3786

## • Features

- Provide new testcases:
  - SSLv2 Testing
  - SSLv3 Testing
  - TLSv1.0 Testing
  - TLSv1.1 Testing
- Provide fuzzing pattern grouping function in the following test cases:
  - CoAP Server Fuzz Testing
  - DHCPv4 Server Fuzz Testing
  - EDSA ARP Fuzz Testing
  - EDSA Ethernet Fuzz Testing
  - EDSA IPv4 TCP Fuzz Testing
  - EDSA IPv4 UDP Fuzz Testing
  - EDSA IPv4 ICMP Fuzz Testing
  - HTTP Fuzz Testing
  - IPv6 TCP Fuzz Testing
  - IPv6 UDP Fuzz Testing
  - SSH Fuzz Testing
  - SNMPv2 Fuzz Testing
  - SNMPv3 Fuzz Testing
  - Modbus TCP Fuzz Testing
  - Telnet Server Fuzz Testing

- Fixed Issues
  - Optimize the testcase Known Vulnerability Testing to improve test efficiency.
  - Optimize the performance and fault tolerance of WEB Page Account Testing.
  - Enhance checking functions in the following test cases:
    - EDSA IPv4 TCP Fuzz Testing
    - EDSA IPv4 UDP Fuzz Testing
    - DHCPv4 Server Fuzz Testing

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Release Version:	2020r2.03
Release Date:	2020/07/29
System Version:	v1.3.0.3672

- Features
  - The website test can use the target domain name or IP address.
  - It should not in the test if the specific function of the target is disabled. Add the pre-check mechanism in the following test cases:
    - EDSA IPv4 Fragment Reassembly Flood
    - EDSA IPv4 Raw NPDU Flood
    - EDSA IPv4 Auto-Negotiating Raw NPDU Flood
    - EDSA ICMPv4 Flood
    - EDSA ICMPv4 Auto-Negotiating Flood

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Release Version:	2020r2.02
Release Date:	2020/07/01
System Version:	v1.3.0.3575

- Security Issues
  - Disable SSL and TLS 1.0 protocol on the Web server.
  - Disable Weak Ciphers on the Web server.
  - Known security issues fixed.
- Fixed Issues
  - It cannot modify the PASS/FAIL result of the testcase, OnSec-TC-03014001 Known Vulnerability Testing.

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- Fix an issue that the General Setting page cannot reopen.

Release Version:	2020r2.01
Release Date:	2020/06/03
System Version:	v1.3.0.3540

- Features
  - Optimize the user interface for select hosts of multiple targets vulnerability assessments. Increase the maximum number of targets is limited to 64.
- Fixed Issues
  - Improve the performance of access to the fuzz packet information.
  - Fix several issues that had unexpected errors when stop auto crawling.

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Release Version:	2020r1.03
Release Date:	2020/04/24
System Version:	v1.3.0.3430

- Features
  - Provide new testcase, AI Traffic Capture Fuzz Testing
  - Integrate the fuzzing testcases into SecDevice
    - RADIUS Server Fuzz Testing
    - RADIUS Server Accounting Fuzz Testing
    - VLAN Fuzz Testing
    - BGP Fuzz Testing
    - IPMI Server Fuzz Testing
    - IKEv2 Server Fuzz Testing
    - FINS Server Fuzz Testing
    - NFSv4 Server Fuzz Testing
    - S7Comm Fuzz Testing
    - IPsec Fuzz Testing
    - BFD Server Fuzz Testing
  - Support 802.11 WLAN/WPA AP and WPA client fuzz testing
  - Enhance 802.11 WLAN Client fuzz testing
  - Provide new features in IP Camera related fuzzing testcases
    - related fuzzing testcases:
      - RTP Fuzz Testing
      - RTCP Fuzz Testing
      - RTSP Fuzz Testing
      - TLSv1.2 Fuzz Testing
      - 802.11 WLAN AP Fuzz Testing
      - ♦ 802.11 WPA AP Fuzz Testing
      - 802.11 WLAN Client Fuzz Testing
      - 802.11 WPA Client Fuzz Testing
    - features:
  - packet analyzer function
    - fuzzing pattern grouping function
    - sufficient test information
    - user-defined test weight setting in the following fuzzing Information
    - sequential and random test modes
- Fixed Issues
  - Correct the judgment logic of testcase, OnSec-TC-02005001 Cookie Attribute
  - Correct the judgment logic when the device under test reboot

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Release Version:	2020r1.02
Release Date:	2020/03/11
System Version:	v1.3.0.2897

Features

Support the scenario of multiple targets vulnerability assessments.

- Change logs
  - Modify the determining mechanism in testcase SSH Buffer Overflow Testing

(OnSec-TC-03011004)

- Fixed Issues
  - Fix occasional incorrect testing duration information issue.
  - Fix an issue that could not be successfully updated when uploading a new version of SecDevice FW using the webpage.
  - Fix an issue where some files had unexpected errors when crawling.

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Release Version:	2020r1.01
Release Date:	2020/02/04
System Version:	v1.3.0.2834

- Features
  - IPv4 UDP Fuzz Testing packet analysis function is supported.
  - Provided Traffic collecting function in Wi-Fi module.
- Fixed issues
  - Fix IPv6 UDP Fuzz Testing issues.
  - Suppress the chance of traffic collecting issues.