



Ref. Certif. No.

FR_Cyber10100

IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE)

Certificate of Conformity – Industrial Cyber Security Capability

Type

Product Capability Assessment

Name and address of the applicant

Moxa Inc.
13F, No. 3, Sec. 4, New Taipei Blvd., Xinzhuang Dist.
242032 New Taipei City
Taiwan

Certificate Coverage (including Version)

TN-4908 / TN-4916 Series (firewall version) V3.0

Standard

IEC 62443-4-2:2019

Requirements Assessed / Total Requirements

Identification and authentication control (12, 3, 22)
Use control (10, 5, 21)
System integrity (9, 8, 19)
Data confidentiality (3, 0, 5)
Restricted data flow (1, 3, 4)
Timely response to events (2, 0, 3)
Resource availability (9, 1, 11)
Software application (0, 0, 3)
Embedded device (0, 0, 13)
Host device (0, 0, 14)
Network device (13, 4, 22)
Security level 2

Additional information (if necessary may also be reported on page 2)

The product has been developed following Process Application of Capabilities Assessment (IEC 62443-4-1) as certified in FR_Cyber10002/A1.

Additional Information on page 2

As shown in the Test Report Ref. No. which forms part of this Certificate

CYT-BGUJ-WTW-P21060944-A0

This Certificate of Conformity, issued by the National Certification Body, certifies that the above have been found to be in conformity with the requirements of the Industrial Cyber Security Capability Scheme (IECEE OD-2061) as it relates to the claims declared by the Applicant.



LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES - LCIE
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92260 Fontenay-aux-Roses, FRANCE
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Date: 12/07/2023



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Signature: Julien GAUTHIER
Certification Officer

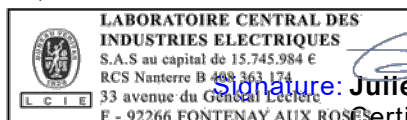
Product references

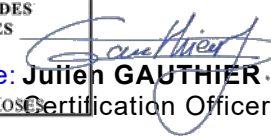
Models TN-	TN-4908 series	TN-4916 series
Product List	TN-4908-8GTX-WV-T TN-4908-8GTX-WV-CT-T TN-4908-ETBN-F-4GTX-4GTXBP-WV-T TN-4908-ETBN-F-4GTX-4GTXBP-WV-CT-T TN-4908-4GPoE-4GTX-WV-T TN-4908-4GPoE-4GTX-WV-CT-T TN-4908-ETBN-F-4GPoE-4GTXBP-WV-T TN-4908-ETBN-F-4GPoE-4GTXBP-WV-CT-T TN-4908-WV-T TN-4908-WV-CT-T TN-4908-ETBN-F-4BP-WV-T TN-4908-ETBN-F-4BP-WV-CT-T TN-4908-4GTX-WV-T TN-4908-4GTX-WV-CT-T TN-4908-ETBN-F-4GTXBP-WV-T TN-4908-ETBN-F-4GTXBP-WV-CT-T	TN-4916-8PoE-4GPoE-4GTX-WV-T TN-4916-8PoE-4GPoE-4GTX-WV-CT-T TN-4916-ETBN-F-8PoE-4GPoE-4GTXBP-WV-T TN-4916-ETBN-F-8PoE-4GPoE-4GTXBP-WV-CT-T TN-4916-4GTX-WV-T TN-4916-4GTX-WV-CT-T TN-4916-ETBN-F-4GTXBP-WV-T TN-4916-ETBN-F-4GTXBP-WV-CT-T TN-4916-12PoE-4GTX-WV-T TN-4916-12PoE-4GTX-WV-CT-T TN-4916-ETBN-F-12PoE-4GTXBP-WV-T TN-4916-ETBN-F-12PoE-4GTXBP-WV-CT-T



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IEC 62443-4-2 ID	Requirement Name	Results-Remarks	Verdict
CCSC 02	Compensating countermeasures	Not in scope	N/A
CCSC 03	Least privilege	Not in scope	N/A
CCSC 04	Software development process	Not in scope	N/A
CR 1.01	Human user identification and authentication		Pass
CR 1.01 RE(1)	Unique identification and authentication		Pass
CR 1.01 RE(2)	Multifactor authentication for all interfaces	Not evaluated on customer request	N/E
CR 1.02	Software process and device identification and authentication		Pass
CR 1.02 RE(1)	Unique identification and authentication	Not evaluated on customer request	N/E
CR 1.03	Account management		Pass
CR 1.04	Identifier management		Pass
CR 1.05	Authenticator management		Pass
CR 1.05 RE(1)	Hardware security for authenticators	Not evaluated on customer request	N/E
CR 1.06	Wireless access management	Not in scope	N/A
NDR 1.06	Wireless access management	Not in scope	N/A
NDR 1.06 RE(1)	Unique identification and authentication	Not in scope	N/A
CR 1.07	Strength of password-based authentication		Pass
CR 1.07 RE(1)	Password generation and lifetime restrictions for human users	Not evaluated on customer request	N/E
CR 1.07 RE(2)	Password lifetime restrictions for all users (human, software process, or device)	Not evaluated on customer request	N/E
CR 1.08	Public key infrastructure certificates		Pass
CR 1.09	Strength of public key-based authentication		Pass
CR 1.09 RE(1)	Hardware security for public key-based authentication	Not evaluated on customer request	N/E
CR 1.10	Authenticator feedback		Pass
CR 1.11	Unsuccessful login attempts		Pass
CR 1.12	System use notification		Pass
CR 1.13	Access via untrusted networks	Not in scope	N/A
NDR 1.13	Access via untrusted networks		Pass
NDR 1.13 RE(1)	Explicit access request approval	Not evaluated on customer request	N/E
CR 1.14	Strength of symmetric key-based authentication	Not in scope	N/A
CR 1.14 RE(1)	Hardware security for symmetric key-based authentication	Not evaluated on customer request	N/E
CR 2.01	Authorization enforcement		Pass
CR 2.01 RE(1)	Authorization enforcement for all users (humans, software processes and devices)		Pass
CR 2.01 RE(2)	Permission mapping to roles		Pass
CR 2.01 RE(3)	Supervisor override	Not evaluated on customer request	N/E
CR 2.01 RE(4)	Dual approval	Not evaluated on customer request	N/E
CR 2.02	Wireless use control	Not in scope	N/A

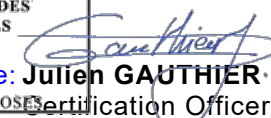


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SAR 2.04	Mobile code	Not evaluated on customer request	N/E
EDR 2.04	Mobile code	Not evaluated on customer request	N/E
HDR 2.04	Mobile code	Not evaluated on customer request	N/E
CR 2.03	Use control for portable and mobile devices	Not in scope	N/A
CR 2.04	Mobile code	Not in scope	N/A
NDR 2.04	Mobile code	Not in scope	N/A
SAR 2.04 RE(1)	Mobile code authenticity check	Not evaluated on customer request	N/E
EDR 2.04 RE(1)	Mobile code authenticity check	Not evaluated on customer request	N/E
HDR 2.04 RE(1)	Mobile code authenticity check	Not evaluated on customer request	N/E
NDR 2.04 RE(1)	Mobile code authenticity check	Not in scope	N/A
CR 2.05	Session lock	Not in scope	N/A
CR 2.06	Remote session termination		Pass
CR 2.07	Concurrent session control	Not evaluated on customer request	N/E
CR 2.08	Auditable events		Pass
CR 2.09	Audit storage capacity		Pass
CR 2.09 RE(1)	Warn when audit record storage capacity threshold reached	Not evaluated on customer request	N/E
CR 2.10	Response to audit processing failures		Pass
CR 2.11	Timestamps		Pass
CR 2.11 RE(1)	Time synchronization		Pass
CR 2.11 RE(2)	Protection of time source integrity	Not evaluated on customer request	N/E
CR 2.12	Non-repudiation		Pass
EDR 2.13	Use of physical diagnostic and test interfaces	Not evaluated on customer request	N/E
HDR 2.13	Use of physical diagnostic and test interfaces	Not evaluated on customer request	N/E
CR 2.12 RE(1)	Non-repudiation for all users	Not evaluated on customer request	N/E
EDR 2.13 RE(1)	Active monitoring	Not evaluated on customer request	N/E
HDR 2.13 RE(1)	Active monitoring	Not evaluated on customer request	N/E
CR 2.13	Use of physical diagnostic and test interfaces	Not in scope	N/A
NDR 2.13	Use of physical diagnostic and test interfaces		Pass
NDR 2.13 RE(1)	Active monitoring	Not evaluated on customer request	N/E
CR 3.01	Communication integrity		Pass
SAR 3.02	Protection from malicious code	Not evaluated on customer request	N/E
EDR 3.02	Protection from malicious code	Not evaluated on customer request	N/E
HDR 3.02	Protection from malicious code	Not evaluated on customer request	N/E
CR 3.01 RE(1)	Communication authentication		Pass
NDR 3.02	Protection from malicious code		Pass
HDR 3.02 RE(1)	Report version of code protection	Not evaluated on customer request	N/E
CR 3.02	Protection from malicious code	Not in scope	N/A
CR 3.03	Security functionality verification		Pass



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CR 3.03 RE(1)	Security functionality verification during normal operation	Not evaluated on customer request	N/E
CR 3.04	Software and information integrity		Pass
CR 3.04 RE(1)	Authenticity of software and information		Pass
CR 3.04 RE(2)	Automated notification of integrity violations	Not in scope	N/A
CR 3.05	Input validation		Pass
CR 3.06	Deterministic output	Not in scope	N/A
CR 3.07	Error handling		Pass
CR 3.08	Session integrity		Pass
CR 3.09	Protection of audit information		Pass
CR 3.09 RE(1)	Audit records on write-once media	Not evaluated on customer request	N/E
EDR 3.10	Support for updates	Not evaluated on customer request	N/E
HDR 3.10	Support for updates	Not evaluated on customer request	N/E
CR 3.10	Support for updates	Not in scope	N/A
EDR 3.10 RE(1)	Update authenticity and integrity	Not evaluated on customer request	N/E
HDR 3.10 RE(1)	Update authenticity and integrity	Not evaluated on customer request	N/E
NDR 3.10	Support for updates		Pass
NDR 3.10 RE(1)	Update authenticity and integrity		Pass
EDR 3.11	Physical tamper resistance and detection	Not evaluated on customer request	N/E
HDR 3.11	Physical tamper resistance and detection	Not evaluated on customer request	N/E
CR 3.11	Physical tamper resistance and detection	Not in scope	N/A
EDR 3.11 RE(1)	Notification of a tampering attempt	Not evaluated on customer request	N/E
HDR 3.11 RE(1)	Notification of a tampering attempt	Not evaluated on customer request	N/E
NDR 3.11	Physical tamper resistance and detection		Pass
NDR 3.11 RE(1)	Notification of a tampering attempt	Not evaluated on customer request	N/E
EDR 3.12	Provisioning product supplier roots of trust	Not evaluated on customer request	N/E
HDR 3.12	Provisioning product supplier roots of trust	Not evaluated on customer request	N/E
CR 3.12	Provisioning product supplier roots of trust	Not in scope	N/A
NDR 3.12	Provisioning product supplier roots of trust		Pass
EDR 3.13	Provisioning asset owner roots of trust	Not evaluated on customer request	N/E
HDR 3.13	Provisioning asset owner roots of trust	Not evaluated on customer request	N/E
CR 3.13	Provisioning asset owner roots of trust	Not in scope	N/A
NDR 3.13	Provisioning asset owner roots of trust		Pass
EDR 3.14	Integrity of the boot process	Not evaluated on customer request	N/E
HDR 3.14	Integrity of the boot process	Not evaluated on customer request	N/E
CR 3.14	Integrity of the boot process	Not in scope	N/A
EDR 3.14 RE(1)	Authenticity of the boot process	Not evaluated on customer request	N/E
HDR 3.14 RE(1)	Authenticity of the boot process	Not evaluated on customer request	N/E
NDR 3.14	Integrity of the boot process		Pass

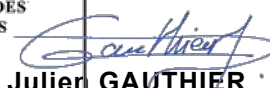


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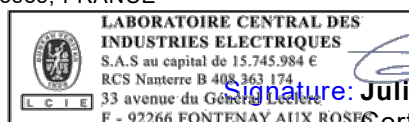
NDR 3.14 RE(1)	Authenticity of the boot process		Pass
CR 4.01	Information confidentiality		Pass
CR 4.02	Information persistence		Pass
CR 4.02 RE(1)	Erase of shared memory resources	Not evaluated on customer request	N/E
CR 4.02 RE(2)	Erase verification	Not evaluated on customer request	N/E
CR 4.03	Use of cryptography		Pass
CR 5.01	Network segmentation		Pass
CR 5.02	Zone boundary protection	Not in scope	N/A
NDR 5.02	Zone boundary protection		Pass
NDR 5.02 RE(1)	Deny all, permit by exception		Pass
NDR 5.02 RE(2)	Island mode	Not evaluated on customer request	N/E
NDR 5.02 RE(3)	Fail close	Not evaluated on customer request	N/E
CR 5.03	General-purpose communication restrictions person-to-person	Not in scope	N/A
NDR 5.03	General purpose, communication restrictions person-to-person		Pass
CR 5.04	Application partitioning	Not in scope	N/A
CR 6.01	Audit log accessibility		Pass
CR 6.01 RE(1)	Programmatic access to audit logs	Not evaluated on customer request	N/E
CR 6.02	Continuous monitoring		Pass
CR 7.01	Denial of service protection		Pass
CR 7.01 RE(1)	Manage communication load from component		Pass
CR 7.02	Resource Management		Pass
CR 7.03	Control System backup		Pass
CR 7.03 RE(1)	Backup integrity verification		Pass
CR 7.04	Control system recovery and reconstitution		Pass
CR 7.05	Emergency Power	Not in scope	N/A
CR 7.06	Network and security configuration settings		Pass
CR 7.06 RE(1)	Machine-readable reporting of current security settings	Not evaluated on customer request	N/E
CR 7.07	Least functionality		Pass
CR 7.08	Control system component inventory		Pass



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