DNV·GL

Certificate No:
TAA00000T8

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Network and Communication Components

with type designation(s)
ISA-3000 (Industrial Security Appliance)

Issued to
Cisco Systems Inc.
San Jose CA, United States

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature	**B**
Humidity	**B**
Vibration	**A**
EMC	**A**
Enclosure	**Required protection according to relevant rules**

This Certificate is valid until **2021-11-13**.

Issued at **Hamburg** on **2016-11-14**

for **DNV GL**

DNV GL local station: **Long Beach**

Approval Engineer: **Andrea Grün**

Duy Nam Le
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id:
Certificate No: **TAA00000T8**

Product description

Cisco ISA 3000:

- ISA3000-4C-K9 — 4x10/100/1000 Base T, K8 encryption (Copper)
  4x10/100/1000 Base T, K9 encryption, VPN for SSL (Copper) with a management port
- ISA3000-2C2F-K9 — 2x10/100/1000 Base T & 2x1GbE SFP, K8 encryption (Fiber)
  2x10/100/1000 Base T & 2x1GbE SFP, K9 encryption, VPN for SSL (Fiber) with a management port

Software encryption is denoted by the suffix –Kx (where x = any alpha/numeric character)
Current encryption: K9

Hardware	CPU Intel 4 Core 1.25Ghz 8 GB of 1333MHz DDR3 Memory Dedicated management-only Gigabit Ethernet port Mini-USB and RJ45 Console port all copper data ports have relay bypass when there is a loss of power or under software control
Power Supply and Ranges	Dual internal DC Nominal ± 12Vdc, 24Vdc, or 48Vdc Maximum Range 9.6 Vdc to 60 Vdc Power Consumption 24 Watts
Alarm	Alarm I/O: four alarm inputs to detect dry contact open or closed, one Form C alarm output relay (enabled in future release)

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Test reports: PR049002-00.01 dated 08-08-2016
R102238 dated 12-07-2016
Product Documentation and Compliance Information: 78-100733-01B0
Cisco ISA 3000 Industrial Security Appliance Hardware Installation Guide
Drawings: DWG NO. 62-26660-01 dated 05-05-2014

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2015.

Marking of product

The products to be marked with:
- manufacturer name
- model name
- serial number

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.
The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed at least every 2.5 year and at renewal of this certificate.

END OF CERTIFICATE