The certification body of TÜV Informationstechnik GmbH hereby awards this certificate to the company

# CAT Telecom Public Company Ltd. 99 Chaeng Watthana Road Laksi, Bangkok 10210, Thailand

to confirm that its security area

# **CAT Data Center Nonthaburi II**

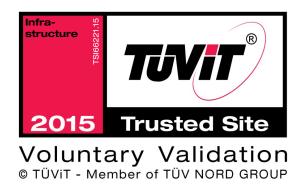
fulfils all requirements for high protection of the criteria catalogue

# Trusted Site Infrastructure TSI V3.2 Level 3 (extended)

of TÜV Informationstechnik GmbH. The requirements are summarized in the appendix to the certificate.

The appendix is part of the certificate and consists of 5 pages.

The certificate is valid only in conjunction with the corresponding evaluation report until 2017-07-31.





Essen, 2015-07-08

Joachim Faulhaber

#### **TÜV Informationstechnik GmbH**

Member of TÜV NORD GROUP Langemarckstr. 20 45141 Essen, Germany www.tuvit.de



# **Certification System**



The certification body of TÜV Informationstechnik GmbH performs its certification on the basis of the following product certification system:

 German document: "Zertifizierungsschema für TÜViT Trusted-Zertifikate der Zertifizierungsstelle TÜV Informationstechnik GmbH", version 1.0 as of 2010-05-18, TÜV Informationstechnik GmbH

# **Evaluation Report**

 "Assessment Report - Trusted Site Infrastructure (TSI), CAT Data Center Nonthaburi II", version 1.1 as of 2015-07-02, TÜV Informationstechnik GmbH

# **Evalution Requirements**

 "Trusted Site Infrastructure – TSI Criteria Catalogue", version 3.2 as of 2014-10-01, TÜV Informationstechnik GmbH

The Evaluation Requirements are listed at the end. Not applicable requirements are printed in grey.

#### **Evaluation Target**

The target of evaluation is the security area "CAT Data Center Nonthaburi II" of CAT Telecom Public Company Ltd. It is detailed in the evaluation report.

#### **Evaluation Result**

The result is "Level 3 (extended)": all requirements of the evaluation aspects FIR, SEC and ACV of the next higher level are fulfilled.



### **Summary of the Evaluation Requirements**



The requirements for Trusted Site Infrastructure (TSI), version 3.2:

#### 1 ENV - Environment

There are no surrounding hazard potentials. The decision on the location must be based on the avoidance of floods, explosions, seismic events, shock waves, danger of collapse or pollutants.

#### 2 CON - Construction

Walls, doors and windows offer protection against access, fire and debris. It has also been ensured that building sections threatened by water, EM/RF interference fields, and dangerous next-door production processes are avoided. The building is protected against lightning. The security area is located in a separate fire protection area and not directly adjacent to the public. IT and technical equipment are separated.

#### 3 FIR - Fire Protection / Alarm / Extinguishing Systems

A fire alarm system has been installed in the complete security area and linked with the fire brigade. Adjacent rooms, raised floors, suspended ceilings and air ducts are included in the fire monitoring. Apart from signalling an alarm, damage containment measures such as a gas extinguishing system in the security area are triggered. Furthermore appropriate hand fire extinguishers are available.



#### 4 SEC - Security

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An access control system including appropriate access rules does exist. The protection against breaking and entering features several levels, and all security sensitive areas are monitored by means of an intrusion detection system. These security systems are connected to the emergency power supply and to a permanently manned control room.

#### 5 POW - Power Supply

The electrical installations are realized in accordance with the relevant DIN standards and VDE regulations. They are protected against over voltage and realized with adapted separations and with protection of the electric circuits. The IT- and the security systems are connected to an uninterruptible power supply. For the supply alternative possibilities exist.

#### 6 ACV - Air Conditioning and Ventilation

Air conditioning for the IT systems and infrastructure components is sufficiently given. It has been ensured that air temperature, humidity and dust content comply with specified limits. The measured values are remotely controlled. Dampers are installed according to the fire protection concept.

#### 7 ORG - Organization

Periodical functional tests are carried out for all safeguards. A maintenance schedule defines methods and intervals for the wear parts of the infrastructure components. The communication with the exterior is ensured, even if the PBX fails. The data backup media is stored and protected



against fire and access in an area separate from the security area.



#### 8 DOC - Documentation

A DIM (Documentation of Infrastructure Measures) or a security concept has been provided. Rules of conduct exist, i.e. covering access control with respect to authorization or key / smart card distribution. Up-to-date plans and documentation are available for the building and all infrastructure components. Furthermore a fire protection concept does exist and has been coordinated with the local fire brigade. Additionally emergency and recovery concepts are provided.

#### 9 DDC - Dual Site Data Center

The dual site data center consists of 2 TSI audited data centers, which individually have reached at least one level underneath the Dual Site Level. The data centers are located in separate buildings with separate supplies, have a redundant network connection and deviate by size at the most by 30%. For Dual Site Level 4 the data centers have a minimum distance of 5 km.



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medium protection requirements (according to Level 1 the BSI infrastructure requirements of the baseline protection manual) Level 2 extended protection requirements (extended requirements to all above mentioned aspects) high protection requirements (complete redun-Level 3 dancy of essential components, no single point of failures, climate limits according to EN 1047-2) Level 4 very high protection requirements (advanced access control, no adjacent hazard potentials, with minimal intervention time) Dual Site both data centers individually reach at least one Level 2-4 level underneath the Dual Site Level.