

Certificate

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

Thüringer Netkom GmbH
Schwerborner Straße 30
99087 Erfurt, Germany

to confirm that its security area

Data Center Ilmenau

fulfils all requirements of

ISO/IEC 22237-1, -2, -3, -4, -6
Availability Class 3
Protection Classes 1-3
Granularity Level 2

using Trusted Site Infrastructure Criteria Catalog TSI.STANDARD V4.6 of TÜV NORD CERT GmbH. The requirements are summarized in the appendix to the certificate.

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

Certificate ID: 661291.26

valid from 2026-01-27 until 2028-01-27

Essen, 2026-01-27

Certification Body of TÜV NORD CERT GmbH

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ISO/IEC 22237

Infrastructure

tuev-nord.de

661291.26

To Certificate



Certification scheme

The certification body of TÜV NORD CERT GmbH performs its certifications based on the following certification scheme:

- German document: „Zertifizierungssystem für IT-Zertifikate (nicht akkreditierter Bereich) der Zertifizierungsstelle der TÜV NORD CERT GmbH“, D503-CP-001, Rev. 00/09.24, TÜV NORD CERT GmbH

Evaluation report

- German document: “Evaluierungsbericht – Trusted Site Infrastructure (TSI.STANDARD), Rechenzentrum Ilmenau“, Version 1.0 as of 2026-01-26, TÜV NORD CERT GmbH

Evaluation requirements

The evaluation requirements are defined in the following standards:

- ISO/IEC 22237-1, Information technology – Data centre facilities and infrastructures –Part 1: General concepts, 2021-10
- ISO/IEC 22237-2, Information technology – Data centre facilities and infrastructures –Part 2: Building construction, 2024-02
- ISO/IEC 22237-3, Information technology – Data centre facilities and infrastructures –Part 3: Power Distribution, 2021-10
- ISO/IEC 22237-4, Information technology – Data centre facilities and infrastructures –Part 4: Environmental control, 2021-10
- ISO/IEC 22237-6, Information technology – Data centre facilities and infrastructures –Part 6: Security systems, 2024-02

and were checked applying the evaluation requirements:

- „TSI.STANDARD Criteria Catalog“, TSI.STANDARD V4.6 as of 2024-11-01, TÜV NORD CERT GmbH

The evaluation requirements are summarized at the end. Not applicable requirements are printed in grey.

Evaluation target

Evaluation target is the security area “Data Center Ilmenau” of Thüringer Netkom GmbH. It is detailed in the evaluation report.

Evaluation result

The evaluation target fulfils all applicable requirements of the above-mentioned standards with regard to

- Availability Class 3
- Protection Classes 1-3
- Granularity Level 2

Summary of the Evaluation Requirements

The requirements for Trusted Site Infrastructure, TSI.STANDARD V4.6, which contain the requirements of ISO/IEC 22237:

1 ENV – Environment

Surrounding hazard potentials have been avoided. The decision on the location is based on risk assessments according to e.g. 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. The building is protected against lightning. The security area is located in a separate fire protection area and not directly adjacent to the public and dangerous next-door production processes. IT and technical equipment are separated. A constructive fire and water prevention is given.

3 FIR – Fire Alarm & Extinguishing Systems

A fire alarm system has been installed in the complete security area and linked to an alarm receiving center. Adjacent rooms, raised floors, suspended ceilings and air ducts are included in the fire monitoring. Apart from signaling 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 Systems & Organization

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. The security systems are fed by a main and an additional power source. The alarms are transmitted to a permanently manned security control room.

5 CAB – Cabling

Communication and data cables are laid with the necessary distance to each other and to power cables on separate cable routings in accordance with EN 50174-2. Data cables are not laid in any hazardous areas or they are specially protected. WAN trays are crossing-free, and connections to at least 2 providers are given from Level 3.

6 POW – Power Supply

The electrical installations are realized in accordance with the relevant standards and regulations. They are protected against over voltage and realized with adapted separations and with protection of the electric circuits. Failure of power components is handled by a redundant layout. The IT components and the security control room are connected to an emergency power unit and UPS systems. Commissioning procedures have been performed.

7 ACV – Air Conditioning & 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. Dampers are installed according to the fire protection concept. The measured values are remotely controlled. Failure of air conditioning components are handled by a redundant layout. Commissioning procedures have been performed.

8 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 data backup media is stored and protected against fire and access in an area separate from the security area.

9 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 drawings are available for the building and all infrastructure components, as well as schematics and data sheets. Furthermore, a fire protection concept does exist and has been coordinated with the local fire brigade. Additionally, emergency or recovery concepts are provided.

10 ISO/IEC 22237

The supplementary requirements for holistic coverage of ISO/IEC 22237-1, -2, -3, -4, -6 have been implemented.

To achieve availability class X, all ISO/IEC 22237 requirements relevant in level X as well as the TSI requirements in the areas of POW and ACV must be achieved at least in the corresponding TSI level X.

Granularity level 2 according to ISO/IEC 22237-3 and -4 is confirmed if the TSI requirements are fulfilled in one of the levels 2, 3 or 4 together with the corresponding ISO/IEC 22237 requirements.

L Level

Level 1	Medium protection requirements (corresponds to the infrastructure requirements of the “IT-Grundschutz Catalogues” published by the German Federal Office for Information Security (BSI))
Level 2	Extended protection requirement (redundancies of critical supply systems, with supplementary requirements for the aforementioned assessment aspects)
Level 3	High protection requirement (complete redundancies of critical supply systems – no single point of failures in important central systems)
Level 4	Very high protection requirements (advanced access control, no adjacent hazard potentials, with minimal intervention times in the case of alarms)
Dual Site Level 2-4	Both data centers individually reach at least one Level underneath the Dual Site Level.

E EFF – Energy Efficiency

The value for the Power Usage Effectiveness (PUE) of the data center infrastructure was correctly determined and is below 1.5. The results of the continuous measurements over 12 months for the total energy demand and the IT energy demand as well as documentation for the measurement concept are available.