

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

**Globalways AG**  
**Neue Brücke 8**  
**70173 Stuttgart, Germany**

to confirm that its security area

**LEV1**

fulfils all requirements of

**EN 50600**  
**Availability Class 3**

using Trusted Site Infrastructure TSI V4.0 of TÜV Informationstechnik GmbH. The requirements are summarized in the appendix to the certificate.

The appendix is part of the certificate and consists of 7 pages.

The certificate is valid only in conjunction with the evaluation report.



Certificate valid until  
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**Certificate**

## **Certification Scheme**

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

- German document: “Zertifizierungsprogramm (nicht akkreditierter Bereich) der Zertifizierungsstelle der TÜV Informationstechnik GmbH”, version 1.0 as of 2015-08-24, TÜV Informationstechnik GmbH

## **Evaluation Report**

- German document: “Prüfbericht – Trusted Site Infrastructure (TSI), LEV1”, version 2.1 as of 2017-07-17, TÜV Informationstechnik GmbH

## **Evaluation Requirements**

The Evaluation Requirements are defined in the following standards:

- EN 50600-1; Information technology – Data centre facilities and infrastructures – Part 1: General concepts; German version EN 50600-1:2012
- EN 50600-2-1; Information technology – Data centre facilities and infrastructures – Part 2-1: Building construction; German version EN 50600-2-1:2014
- EN 50600-2-2; Information technology – Data centre facilities and infrastructures – Part 2-2: Power distribution; German version EN 50600-2-2:2014

- EN 50600-2-3; Information technology – Data centre facilities and infrastructures – Part 2-3: Environmental control; German version EN 50600-2-3:2014
- EN 50600-2-4; Information technology – Data centre facilities and infrastructures – Part 2-4: Telecommunications cabling infrastructure; German version EN 50600-2-4:2015
- EN 50600-2-5; Information technology – Data centre facilities and infrastructures – Part 2-5: Security systems; German version EN 50600-2-5:2016
- EN 50600-3-1; Information technology – Data centre facilities and infrastructures – Part 3-1: Management and operational information; German version EN 50600-3-1:2016

and were checked applying the evaluation requirements:

- “Trusted Site Infrastructure – TSI Criteria Catalogue”, version 4.0 as of 2016-03-01, vom TÜV Informationstechnik GmbH

The Evaluation Requirements are summarized at the end.

### **Evaluation Target**

The target of evaluation is the security area “LEV1” of Globalways AG. It is detailed in the evaluation report.

### **Evaluation Result**

The result is “EN 50600 Availability Class 3”.

## Summary of the Evaluation Requirements

Evaluation requirements according to Trusted Site Infrastructure (TSI), version 4.0, which contain the requirements of EN 50600:

### 1 ENV - Environment

Surrounding hazard potentials have been avoided. The decision on the location is based on risk assessments according 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 centre. 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 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 TSI Level 3.

#### **5 SEC - Security**

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.

#### **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- and the security systems are connected to an emergency power unit and UPS systems. Commissioning procedures have been performed.

## **7 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. 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 EN 50600

The supplementary requirements to comprehensively cover the EN 50600 are realised.

Three increasing granularity levels define the extent of measurements to determine the energy efficiency.

The following table shows the relationship taken as a basis between EN 50600 (parts 2-2, 2-3, 2-4: availability classes and granularity levels) as well as the TSI V4.0 levels:

EN 50600-2-2/-3/-4 Availability Class	1	2	3	4
EN 50600-2-2 Granularity Level	-	2	2	2
EN 50600-2-3 Granularity Level	-	-	2	2
EN 50600-2-4 Granularity Level	-	-	-	-
TSI V4.0 Level	1	2	3	4

## **L TSI 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)