

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

**Datacenter One NRW GmbH
Dornierstraße 10
51381 Leverkusen, Germany**

to confirm that its security area

DUS1

fulfils all requirements of

**EN 50600
Availability Class 3,
Protection Class 1-3, Granularity 2**

using evaluation method TSI.EN50600 V1.0 of TÜV Informationstechnik GmbH. The requirements are summarized in the appendix to the certificate.

The appendix is part of the certificate and consists of 4 pages.

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



Certificate valid until
2022-05-31

Certificate ID: 66581.20
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Essen, 2020-05-04

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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 1.1 as of 2020-03-01, TÜV Informationstechnik GmbH

Evaluation Report

- German document: “Prüfbericht - TSI.EN50600 DUS1”, version 1.0 as of 2020-04-29, 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

Evaluation Target

The target of evaluation is the security area “DUS1” of Datacenter One NRW 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 class 1-3,
- Granularity level 2.

Summary of the Evaluation Requirements

The EN 50600 defines requirements for a data center in the following areas:

- Building construction,
- Power distribution,
- Environmental control,
- Telecommunications cabling infrastructure,
- Security systems,
- Management and operation.

To classify a data center, four availability classes, four protection classes and three levels of granularity for energy monitoring are defined.

Availability Classes

Four different grades of availability classes are defined for the entirety of all facilities and infrastructures of the data center. The availability classes have the following characteristics, among others:

	EN 50600-2-2 / -2-4	EN 50600-2-3
AC1	Single path layout	-
AC2	Single path layout with redundancies	Single path layout
AC3	Multi-path design, solution for repair during operation	Single path layout with redundancies
AC4	Multi-path design, fault tolerant except during maintenance	Multi-path design, solution for repair during operation

Protection Classes

Four different protection classes are defined. A protection class is assigned to all areas and supply paths of the data center. They describe physical protection against the following events:

- unauthorized access,
- internal environmental events,
- external environmental events.

With regard to unauthorized access, at least three protection classes must be implemented.

Granularity levels for the measurement of energy consumption

Three levels of granularity are defined for the measurement:

- Level 1: a measuring concept that provides simple, general information for the entire data center.
- Level 2: a measuring concept that provides detailed information for specific facilities and infrastructures within the data center.
- Level 3: a measuring concept that provides granular data for the systems within the areas and supply paths of the data center.