

1. Confidentiality according to Art. 32 Para. 1 lit. b GDPR

a. Physical Access Control

Physical access controls are measures that are suitable for preventing unauthorized persons from gaining access to data processing systems with which personal data is processed or used. Physical access control measures that can be used to secure buildings and rooms include automatic access control systems, use of smart cards and transponders, control of access by security personnel and alarm systems. Servers, telecommunications equipment, network technology and similar equipment is to be protected in lockable server cabinets. In addition, it makes sense to support physical access control through organizational measures (e.g., service instructions that provide for locking service rooms when the employee is not present).

Technical measures	Organizational measures
Alarm system	Key regulations / list
Automatic data access control system	Reception / Receptionist / Security
Biometric access barriers	☐ Visitors' book / Visitors' log
Chip cards / transponder systems	Employee / visitor badges
Manual locking system	☑ Visitors accompanied by employees
Security locks	$oxed{\boxtimes}$ Care in the selection of security personnel
Locking system with code lock	Care in selecting cleaning services
Protection of the building shafts	
Doors with knob outside	
Bell system with camera	
☑ Video surveillance of the entrances	

b. Data Access Control

Data access controls are measures that are suitable for preventing data processing systems (computers) from being used by unauthorized persons. Data access control refers to the prevention of the unauthorized use of equipment. Possibilities are, for example, boot password, user ID with password for operating systems and software products used, screen saver with password, the use of smart cards for logon as well as the use of call-back procedures. In addition, organizational measures may also be necessary, for example, to prevent unauthorized viewing (e.g., specifications for setting up screens, issuing guidance to users on choosing a "good" password).

Technical measures	Organizational measures
□ Login with username + password	Manage user permissions
Login with biometric data	Create user profiles
Anti-virus software server	Central password assignment
Anti-virus software clients	Secure password policy
Anti-virus software mobile devices	Deletion / destruction policies
Firewall	☑ Clean desk policy
Intrusion detection systems	General data protection and / or
	security policies
Mobile device management	Mobile device policy
Use VPN for remote access	



Encryption of data carriers	
Encryption smartphones	
☐ Housing lock	
BIOS protection (separate password)	
Locking external interfaces (USB)	
🔀 Automatic desktop lock	
Encryption of notebooks / tablet	

c. Data Usage Control

Data usage controls are measures that ensure that those authorized to use a data processing system can only access the data subject to their access authorization and that personal data cannot be read, copied, modified or removed without authorization during processing, use and after storage. Data usage control can be ensured, among other things, by suitable authorization concepts that enable differentiated control of access to data. It is important to differentiate between the content of the data and the possible access functions to the data. Furthermore, suitable control mechanisms and responsibilities must be defined to document the granting and withdrawal of authorizations and to keep them up to date (e.g., in the event of hiring, change of job, termination of employment). Special attention should always be paid to the role and capabilities of administrators.

Technical measures	Organizational measures
File shredder (min. level 3, cross cut)	Deployment of authorization concepts
External document shredder (DIN 66399)	Minimum number of administrators
Physical deletion of data carriers	Privacy vault
□ Logging of accesses to	Management user rights by
applications, specifically when entering,	administrators
modification and deletion of data	

d. Separation

Separation includes measures that ensure that data collected for different purposes can be processed separately. This can be ensured, for example, by logical and physical separation of the data.

Technical measures	Organizational measures
Separation of production and test	Control via authorization concept
environment	
Physical separation (systems /	Setting database rights
databases / data carriers)	
Multi-client capability of relevant	Data sets are provided with purpose
applications	attributes

2. Pseudonymization (Art. 32 Para. 1 lit. a GDPR; Art. 25 Para. 1 GDPR)

The processing of personal data in such a way that the data can no longer be attributed to a specific data subject without recourse to additional information, provided that such additional information is stored separately and is subject to appropriate technical and organizational measures.

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$oxedsymbol{\square}$ In the case of pseudonymization: $oxedsymbol{oxed}$ Internal instruction to anonymize /	
Separation of the assignment data and storage pseudonymize personal data as far as possible	9
in separate and in the event of disclosure or even after expiry	
secure systems (possibly encrypted) of the statutory deletion period	

3. Integrity (Art. 32 Para. 1 lit. b GDPR)

a. Transfer Control

Transfer control means measures to ensure that personal data cannot be read, copied, altered or removed without authorization during electronic transmission or while being transported or stored on data carriers, and that it is possible to verify and establish to which entities personal data is intended to be transferred by data transmission equipment. Encryption techniques and virtual private networks, for example, can be used to ensure confidentiality in electronic data transmission. Measures to be taken when transporting or forwarding data media include transport containers with locking devices and regulations for destroying data media in accordance with data protection requirements.

Technical measures	Organizational measures
E-mail encryption	Documentation of data recipients
	and the duration of the planned transfer
	and the deletion deadlines
☐ Use of VPN	Overview of regular call-off and
	transmission processes
igtimes Logging of accesses and retrievals	igtimes Disclosure in anonymized or
	pseudonymized form
Safe transport containers	Care in the selection of transport
	personnel and vehicles
Provision via encrypted	Personal handover with protocol
connections like sftp, https	
Use of signature methods	

b. Input Control

Input control refers to measures that ensure that it is possible to check and establish retrospectively whether and by whom personal data has been entered into, modified or removed from data processing systems. Input control is achieved through logging, which can take place at various levels (e.g. operating system, network, firewall, database, application). It must also be clarified which data is logged, who has access to logs, by whom and on what occasion/at what time these are checked, how long storage is required and when deletion of the logs takes place.

Technical measures	Organizational measures
☐ Technical logging of the input,	Overview, with which programs
modification and deletion of data	which data has been entered or changed or
	can be deleted
Manual or automated control of the	Traceability of input,
logs	modification and deletion of data by
	individual user names (not
	user groups)



Assignment of rights for input,
modification and deletion of data on
the basis of an authorization concept
Storage of forms from which
data have been transferred to automated
processing operations
☐ Clear responsibility for carrying out
deletions

4. Availability and Resilience (Art. 32 Para. 1 lit. b GDPR)

a. Availability

Availability refers to measures that ensure that personal data is protected against accidental destruction or loss. This covers topics such as an uninterruptible power supply, airconditioning systems, fire protection, data backups, secure storage of data media, virus protection, raid systems, disk mirroring, and so on. This information refers to the data center.

Organizational measures
Backup & Recovery Concept (formulated)
Control of the backup process
Regular tests for data
recovery and logging of
results
Storing the backup media in
a safe place outside the
server room
No sanitary connections in or
above the server room
Existence of an emergency plan (e.g. BSI IT-
Grundschutz 100-4)
Separate partitions for operating
systems and data

5. Procedures for Regular Review, Assessment and Evaluation (Art. 32 Para. 1 lit. d GDPR; Art. 25 Para. 1 GDPR)

a. Data Protection Management

Technical measures	Organizational measures



Software solutions for data protection	☐ Internal / external data protection officer
management in action	Christian Volkmer
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Central documentation of all procedures	$oxed{\boxtimes}$ Employees trained and committed to
and regulations on data protection with access	confidentiality/data secrecy
for employees according to need /	
authorization (e.g. Wiki, Intranet)	
☐ ISO 27001 security certification,	Regular training of employees at least
BSI IT-Grundschutz or ISIS12	annually
Other documented security	☐ Internal / External Information Security
concept	Officer/ CISO name / company contact
igthicking A review of the effectiveness of the	igtherightarrow The data protection impact assessment
technical protective measures is carried out at	(DPIA) is to be carried out if necessary
least once a year	
	igthered The organization complies with the
	information obligations according to Art. 13
	and Art. 14 GDPR
	Formalized process for handling requests
	for information from data subjects is in place

b. Incident Response Management

Support for security breach response

Technical measures	Organizational measures
□ Use of firewall and regular updating	Documented process for detecting and reporting security incidents / data breakdowns (also with regard to the obligation to report to the supervisory authority)
☑ Use of spam filters and regular updating	Documented procedure for handling security incidents
□ Use of virus scanners and regular updating	☑ Involvement of ☑ DPO and ☑ ISO in security incidents and data breaches
☐ Intrusion Detection System (IDS)	Documentation of security incidents and data breakdowns e.g. via ticket system



Intrusion Prevention System (IPS)	Formal process and responsibilities	
	for following up on security incidents	
	and data breaches	
c. Privacy-friendly Default Settings (Art. 25 Para. 2 GDPR)		
Privacy by design / Privacy by default		
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Technical measures	Organizational measures	
No more personal		
data is collected than is necessary for the		
respective purpose		
Simple exercise of the right of withdrawal		
of the data subject by technical		
measures		
d. Order Control (outsourcing to third parties)		
Order control refers to measures that ensure that personal data processed on behalf of a		
customer can only be processed in accordance with the customer's instructions. In addition		
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Order control refers to measures that ensure that personal data processed on behalf of a customer can only be processed in accordance with the customer's instructions. In addition to data processing done on behalf of the data controller, this item also includes the performance of maintenance and system support work both on site and via remote maintenance. If the contractor uses service providers in the sense of commissioned processing, the following points must always be regulated with them.

Technical measures	Organizational measures
	Prior verification of the safety measures
	taken by the contractor and their
	documentation
	Selection of the contractor under
	due diligence aspects (especially with
	regard to data protection and data
	security)
	Conclusion of the necessary order
	processing agreement or EU standard
	contractual clauses
	Written instructions to the
	contractor
	Obligation of the contractor's employees to
	maintain data secrecy
	Obligation to appoint a data
	protection officer by the contractor if
	the obligation to appoint exists
	Agreement on effective control rights
	vis-à-vis the contractor
	Regulation on the use of further
	subcontractors
	Ensuring the destruction of data
	after the completion of the order



☐ In case of a longer collaboration: Ongoing
review of the contractor and
its level of protection