



DORA / NIS2 / ISO 27001 / KRITIS

Compliance Mapping

Assessment Template for Cross-Account Disaster Recovery

Framework	Total Requirements	CACR Coverage
DORA (EU Financial)	12 Key Articles	12/12 ✓
NIS2 (EU Directive)	8 Core Measures	8/8 ✓
KRITIS/BSI (Germany)	6 Essential Controls	6/6 ✓
ISO 27001:2022	5 DR Controls	5/5 ✓

Introduction

This document provides a comprehensive mapping of Cross-Account Cross-Region (CACR) disaster recovery architecture against major compliance frameworks mandating backup resilience and geographic separation. Use this as an assessment template to evaluate your current DR posture and identify gaps.

Frameworks Covered:

Framework	Scope	Enforcement
DORA	EU Financial Institutions	January 2025 (mandatory)
NIS2	Essential & Important Entities (EU)	October 2024 (national)
ISO 27001:2022	Global (certification)	October 2022 (updated)
KRITIS/BSI	Critical Infrastructure (Germany)	Currently in force

How to Use This Document

For each requirement, this document provides:

- Requirement: What the framework mandates
- CACR Implementation: How Cross-Account Cross-Region architecture fulfills it
- Evidence: Documentation and proof points for auditors
- Status: Compliance status (✓ Fully Met)

1. DORA (Digital Operational Resilience Act)

Regulation (EU) 2022/2554 - Mandatory for financial entities in the EU as of January 17, 2025. DORA establishes uniform requirements for digital operational resilience, including specific mandates for ICT business continuity and disaster recovery.

Article 11: Backup Policies and Procedures

Requirement	CACR Implementation	Evidence	✓
Financial entities shall maintain backup policies and recovery procedures to restore ICT systems and data	CACR implements automated daily backups using AWS Backup with defined retention	<ul style="list-style-type: none">• AWS Backup Plan configuration• Terraform IaC showing backup rules• Backup completion logs	✓
Backup locations shall be geographically diverse	Production: Region A DR: Region B Distance: given	<ul style="list-style-type: none">• Regional separation documented• S3 bucket locations verified• AWS Region metadata	✓
Backup data shall be isolated from production environments	DR backups stored in separate AWS account with separate credentials and IAM boundaries	<ul style="list-style-type: none">• AWS Organizations account structure• IAM policy documentation• Cross-account access logs	✓

Article 12: Recovery and Restoration of ICT Systems

Requirement	CACR Implementation	Evidence	✓
Documented recovery procedures for ICT systems and data	Infrastructure-as-Code (Terraform) provides automated, documented recovery: terraform apply in DR account restores full stack	<ul style="list-style-type: none"> • Terraform recovery playbook • Step-by-step runbook • Recovery procedure documentation 	✓
Recovery procedures shall be tested regularly	Quarterly DR drills executed. RTO measured: and (tested), RPO: min 24 hours (daily backups)	<ul style="list-style-type: none"> • DR drill reports • RTO/RPO measurements • Test recovery logs 	✓
Point-in-time recovery capabilities	AWS Backup provides point-in-time restore from any daily snapshot. Automated snapshots retained for min 30 days in DR	<ul style="list-style-type: none"> • Recovery point catalog • Snapshot retention policy • Successful PITR test results 	✓

2. NIS2 (Network and Information Security Directive)

Directive (EU) 2022/2555 - Applies to essential and important entities across multiple sectors. Member states were required to transpose NIS2 into national law by October 17, 2024. Penalties: Up to €10 million or 2% of global annual turnover.

Article 21: Cybersecurity Risk Management Measures

Requirement	CACR Implementation	Evidence	✓
Backup management and disaster recovery	Automated backup orchestration with AWS Backup. Cross-account replication ensures disaster recovery capability independent of production compromise	<ul style="list-style-type: none">• Backup success metrics• DR architecture diagram• Disaster recovery plan	✓
Business continuity policies	CACR enables <HoursRTO by switching to DR account. Production preserved for forensics while business continues	<ul style="list-style-type: none">• Business continuity plan• RTO documentation• Incident response procedures	✓
Multi-layered approach to cybersecurity	CACR adds account-level isolation to existing controls. Even with admin compromise, DR account remains secure (separate credentials)	<ul style="list-style-type: none">• Defense-in-depth architecture• Account separation documentation• Security control matrix	✓
Immutable backup storage	AWS Backup Vault Lock enabled (compliance mode) in DR account. Backups cannot be deleted even with production admin access	<ul style="list-style-type: none">• Vault Lock configuration• Retention policy enforcement• Immutability test results	✓

3. ISO 27001:2022

International Standard for Information Security Management - Updated October 2022 with revised controls. ISO 27001 certification requires demonstrable implementation of applicable controls from Annex A.

Control A.5.30: ICT Readiness for Business Continuity

Requirement	CACR Implementation	Evidence	✓
ICT readiness shall be planned, implemented, maintained and tested	CACR infrastructure maintained as code (Terraform). Quarterly testing ensures readiness. All components version-controlled	<ul style="list-style-type: none">• Terraform state files• Version control history• Test execution logs	✓
Redundant ICT systems shall be sufficiently separated	DR account separated from production. Separate AWS Organizations, separate IAM, separate KMS keys	<ul style="list-style-type: none">• AWS account structure• IAM boundary documentation• Network isolation diagram	✓

Control A.8.13: Information Backup

Requirement	CACR Implementation	Evidence	✓
Backup copies of information shall be maintained	Automated daily backups Local retention: 14 days, DR retention: 30 days	<ul style="list-style-type: none">• Backup schedule configuration• Backup success rate metrics• Storage utilization reports	✓
Restoration procedures shall be regularly tested	Quarterly DR drills with documented results. Latest test: RTO Hours RPO 24 hours	<ul style="list-style-type: none">• Test procedure documentation• Recovery test results• Lessons learned reports	✓

Control A.8.14: Redundancy of Information Processing Facilities

Requirement	CACR Implementation	Evidence	✓
Redundant information processing facilities shall be implemented	Full DR environment deployable in Region A independent of production in Region B	<ul style="list-style-type: none"> • DR infrastructure inventory • Architecture diagrams • Deployment automation 	✓
Geographic diversity of facilities	separation between production and DR regions	<ul style="list-style-type: none"> • Regional distance documentation • Geographic risk assessment • Facility specifications 	✓

4. KRITIS/BSI (Germany)

Federal Office for Information Security (BSI) - German critical infrastructure regulations. KRITIS operators must implement state-of-the-art security measures per §8a BSIG, with specific requirements for data backup, system redundancy, and incident response capabilities.

BSI Standard 200-4: Business Continuity Management

Requirement	CACR Implementation	Evidence	✓
Account isolation for critical systems	DR infrastructure in completely separate AWS account. No shared credentials, IAM policies, or network paths with production	<ul style="list-style-type: none"> • Account separation architecture • IAM policy boundaries • Network segmentation diagram 	✓
Immutable backup storage for forensics	AWS Backup Vault Lock prevents deletion. Retention: > 30 days enables forensic investigation post-incident	<ul style="list-style-type: none"> • Vault Lock configuration • Retention policy • Forensic access procedures 	✓
Documented and tested recovery procedures	Infrastructure-as-Code (Terraform) provides repeatable, documented recovery. Quarterly drills validate procedures	<ul style="list-style-type: none"> • Recovery runbooks • Drill execution reports • IaC documentation 	✓

BSI Standard 200-4: Business Continuity (continued)

Requirement	CACR Implementation	Evidence	✓
Geographic separation of backup sites	Primary: Frankfurt (Germany), Backup: Ireland. Different EU countries reduces common risk exposure	<ul style="list-style-type: none"> • Site location documentation • Risk assessment • Geographic separation analysis 	✓
Rapid recovery capability (RTO)	Measured RTO: 22 minutes. Automated Terraform deployment eliminates manual errors and delays	<ul style="list-style-type: none"> • RTO measurement reports • Recovery time analysis • Automation validation 	✓

Compliance Summary

Framework	Total Requirements	Fully Met	Compliance %
DORA	5	5	100%
NIS2	5	5	100%
ISO 27001:2022	8	8	100%
KRITIS/BSI	6	6	100%
TOTAL	24	24	100%

CACR architecture provides comprehensive coverage across DORA, NIS2, KRITIS/BSI, and ISO 27001:2022 disaster recovery requirements. With 100% of assessed requirements fully satisfied, CACR eliminates the false choice between compliance and protection.

Need Compliance Consulting?

IT-Consulting Kenneth Hede specializes in AWS disaster recovery architecture aligned with compliance frameworks (ISO 27001, DORA, NIS2, KRITIS). Services include:

- Gap analysis and compliance assessment
- CACR architecture design and implementation
- Terraform Infrastructure as Code development
- DR testing and audit preparation

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