Digital Operational Resilience Act (DORA)



With you today....



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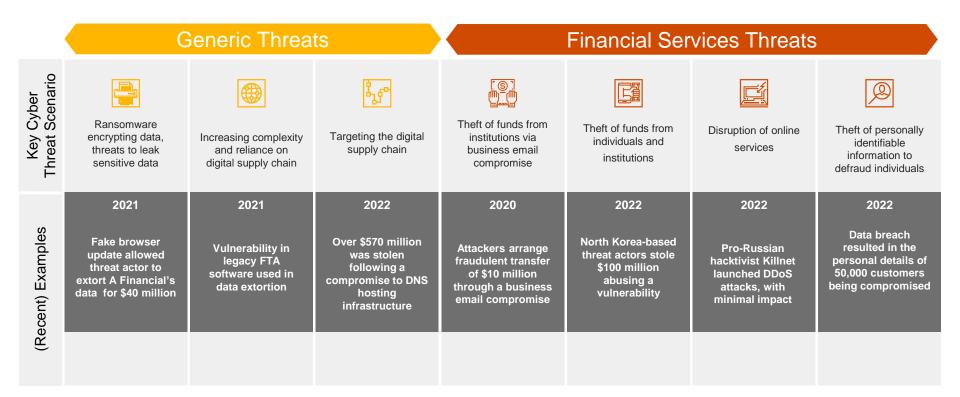


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Setting the Scene

Financial Services cyber risks and case studies



The evolution of digital risks related to the geopolitical context and the change in European regulations to manage ICT and Cyber risks

World Economic Forum annual meeting in Davos: The Global Cyber Outlook 2023

Key Takeaways

Global geopolitical instability has helped bridge the perception gap between the views of business and IT leaders on the importance of managing cyber risk. A catastrophic cyber event is at least somewhat likely in the next couple of years.



There is much more companies can do to increase resilience, including:

- improve e-skills and awareness,
- communication
- information sharing

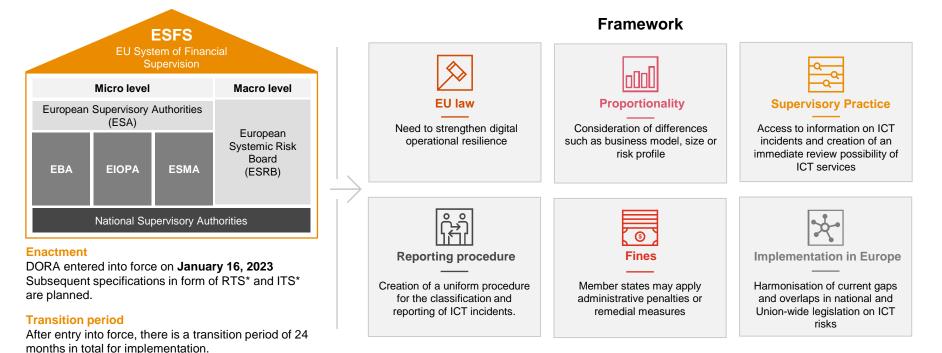
CEOs Point of View: PwC 2023 Global Digital Trust Insights

PwC gathered the views of CEOs, CIOs and CISOs to better understand Cybersecurity & Privacy priorities and evolutionary trends between the first and second line of defense.



Classification and framework of DORA

The "DORA Regulation" creates a binding framework for action in the future



*RTS: Regulatory Technical Standards and ITS: Implementing Technical Standards

The essence of DORA

'Digital Operational Resilience'

What does it really mean?

"

The ability of a finance entity to build, assure and review its operational integrity and reliability by ensuring...

... either directly or indirectly through the use of services provided by ICT third-party services providers,...

... the **full range of ICT-related capabilities** needed to address the security of the network and information systems which a financial entity uses...



... and which support the **continued provision** of financial services and their quality, **including throughout disruption**"

"

DORA Roadmap

The road to entry into force

16.01.2023 DORA entered into force	1st Deadline Q1 2024 12 months after enactment: Deadline for the Drafts of some RTS and ITS	2nd Deadline 1st half of 2024 18 months after entry into force: Deadline for the Drafts of some RTS and two Delegated Acts	17.01.2025 Applicability of DORA		2025 onwards National authorities ensure compliance with the DORA regulation
2023	2024	• •		2025	•
♦ Jun-Sep Nov-Jan'24 Public consultation phas for RTS / ITS	 Early 2024 Expected publication of the consultation versions of two delegated regulations 	f End 24 m effec Dead	Deadline of 2024 onths after tive date: lline for the report		

*Note: The future dates listed are estimates and intended only to provide a basic time frame.

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Scope and Proportionality



Scope

All participants on the financial markets, including banks, insurance undertakings and intermediaries, asset managers, crypto asset providers and more - below is a non-exhaustive list

Credit Institutions

Investment firms

Payment Institutions Electronic money institutions Crypto-asset service providers Trading venues (Re)Insurance undertakings (Re)Insurance intermediaries Occupational retirement provision Credit rating agencies Crowdfunding service providers Account information service providers



ICT third-party service providers

Financial entities may only enter into contractual arrangements with ICT third-party service providers that comply with appropriate information security standards

Proportionality Principle

Size and overall risk profile, as well as the nature, scope and complexity of their services, activities and operations



DORA Spotlight

Subject areas may be grouped into five (5) pillars



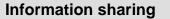
ICT risk management

- Identification of critical or important business functions and determination of risk tolerances for ICT disruptions
- Continuously identify all sources of ICT risk and define protection and prevention measures (including comprehensive "business continuity" strategies and emergency recovery plans)
- Implement key cyber security and resilience controls such as IAM, SIEM, network segregation, etc.



- Introduction of a management process for logging and monitoring ICT-related incidents (incl. their classification)
- Submit an initial, interim and final report on ICT-related incidents
- Harmonise the reporting of ICT-related incidents using the standard templates developed by the ESAs





- Arrangements for sharing cyber threat information and intelligence in a trusted environment
- Establish mechanisms to verify the information provided and take appropriate action



Digital operational resilience testing

- · Advanced threat-led penetration testing every 3 years
- Regular review of the ICT risk management framework and annual review of all critical ICT applications, systems and processes
- Measures to improve any identified deficiencies and reporting to the supervisory authorities
- Possible regular implementation of threat-driven penetration tests with the involvement of third-party service providers

Management of risk by third-party

- Harmonisation of relations with ICT third party providers in all phases of contractual agreements
- Standard contractual clauses must contain a full description
 of the services provided
- Continuously monitor, document and report on all contractual arrangements with third party providers and identify services that support critical or important functions



Effects of DORA

The FS industry Point-of-View

First Steps	Challenges	Additional strengthening of resilience	
Gap Analysis	Critical services mapping, including tech chain and ICT TPP	TIBER-EU	
Remediation Plan	Scenario- based management models evolution	Automated communication processes	
New DORA responsibilities establishment	Network Segregation	Market collaboration and information sharing	
Incident Management Process	Zero-Trust Implementation	Dashboard for Integrated ICT/Cyber Risk Monitoring	
Threat Intelligence	Threat-led penetration tests		
ICT service provider contracts and recovery/exit measures	ICT TPP Risk Mgmt & Governance		

Common Issues

Digital Operational Resilience Strategy

New strategies and frameworks, cross-company and cross-function, integrated with existing processes. Need to set up integrated Indicators, monitoring, dashboarding

End-to-end visibility

Lack of integrated governance models and maintenance processes.

O Value chain management

Need to improve outsourcing management. A clear overview of 3rd and 4th parties needs to be established.

① TLPT as Cyber business case (TIBER-EU)

TLPT effectiveness can be achieved through robust key cyber capabilities - e.g., threat intelligence, early warning, incident response - and strong senior leadership commitment.



Configuration & Asset Management EoL and Legacy Systems Network Security & Segmentation Identity and Access Management



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