NIST & DORA – A Side-by-side comparison



INTRODUCTION

Here below a synopsis of NIST and DORA

| | NIST | DORA (EU Digital Operational Resilience Act) |
|-------------|---|--|
| Description | U.S. government agency that develops standards for technology, cybersecurity, and software. | |
| Used For | and improving system reliability. | Regulating ICT risk management and resilience for financial entities within the EU. |
| Re Annlied | cybersecurity and compliance (e.g., | Financial institutions, ICT service providers, and critical financial infrastructures in the EU. |



Detailed Comparison Table

| | NIST | DORA (EU Digital Operational Resilience Act) |
|--------------------------|---|---|
| Focus | Security, reliability, compliance, and standards for technology systems. | Digital operational resilience and ICT risk management in the financial sector. |
| Primary Goal | To establish secure, resilient, and reliable systems. | To ensure the EU financial sector can withstand and recover from ICT-related disruptions. |
| Key Frameworks/Models | (CSF), Secure Software Development | Regulatory framework with specific requirements for ICT risk management and operational resilience. |
| Metrics | Risk, resilience, and security performance indicators. | Mandatory compliance measures for ICT risk management, testing, incident reporting, and governance. |
| Approach | | Mandatory compliance for financial entities operating within the EU, with penalties for non-compliance. |
| Culture Emphasis | Focuses primarily on technical standards and frameworks, with some attention to organizational culture. | llEmnhasizes governance riskll |

| | NIST | DORA (EU Digital Operational Resilience Act) |
|---------------------------|--|---|
| Security Integration | Promotes integrating security in software development lifecycle (e.g., DevSecOps). | Mandates robust ICT risk management, resilience testing, and third-party risk monitoring. |
| Incident Recovery | | Requires mandatory reporting and recovery protocols for ICT-related incidents and disruptions. |
| Regulatory Compliance | Can become mandatory when tied to specific government contracts or industry standards. | Fully mandatory regulation for financial entities in the EU, with specific compliance deadlines (by 2025). |
| Automation | Encourages automation to enhance security testing and monitoring. | Encourages automated solutions for risk management but within strict compliance boundaries. |
| Audience | Security professionals, compliance teams, and organizations requiring regulated standards. | |
| Example Guidelines | NIST SP 800-190 (Application Container Security Guide), SP 800-218 (SSDF). | Incident reporting protocols, ICT risk management requirements, operational resilience testing. |
| Incident Focus | Resilience under attacks and secure incident management. | Ensuring financial stability and ICT continuity during operational disruptions. |
| Collaboration with DevOps | Encourages collaboration via DevSecOps to integrate security into DevOps processes. | Requires formal governance structures for ICT risk and resilience, with less emphasis on DevOps-specific practices. |