

# ZERO-DAY READINESS

Vulnerability Management Maturity Model (VMMM v2)

Domain: Prepare  
Maturity Tier: Foundational

## EXECUTIVE SNAPSHOT

### Why this matters:

- Organizations have no formal process to respond to high-impact zero-day vulnerabilities

### What breaks without it:

- Teams react inconsistently during zero-day crisis. No coordination. Unclear who decides emergency actions
- Ad hoc response depends on individual effort. Not repeatable. Ownership unclear during high-pressure events

### What "good" looks like:

- Level 3: Defined response process, communication channels, designated leads, documented response steps
- Level 4+: Playbooks, crisis simulations, measured timelines, cross-functional crisis response framework

### Who should care:

- Security teams responding to critical zero-day vulnerabilities requiring rapid coordinated action
- Incident response teams coordinating emergency patching and crisis response workflows
- IT leadership managing organizational response during high-pressure zero-day events

## URGENCY ASSESSMENT

- Critical Foundation (prevents chaotic crisis response)  
 Compliance Driver  
 Risk Mitigation (reduces exposure window during zero-day events)  
 Operational Efficiency (enables rapid coordinated response)  
 Strategic Enhancement

(If unchecked at Level 2+, organization responds to zero-days chaotically without coordination)

## FRAMEWORK ALIGNMENT EXAMPLES

This capability supports accountability requirements in commonly adopted security frameworks. These examples illustrate alignment, not exhaustive control coverage.

**NIST 800-53:** Demonstrates incident response with documented zero-day response procedures

**NIST CSF 2.0:** Shows incident response planning with crisis management capabilities

**CIS v8:** Provides incident response management with zero-day response workflows

**ISO 27001:** Demonstrates incident response with emergency procedures for critical events

## MATURITY QUICK CHECK

- Level 1: No formal zero-day process, inconsistent reaction, limited coordination
- Level 2: Ad hoc procedures, depends on individual effort, not repeatable, unclear ownership
- Level 3: **Defined response process, communication channels, designated leads, documented steps**
- Level 4: Playbooks, pre-established workflows, regular crisis simulations, measured timelines
- Level 5: Cross-functional crisis framework, real-time data, automated workflows, performance tracking

## DEPENDENCIES & BOUNDARIES

**Depends on:** Incident Response Integration, Roles & Responsibilities, Crisis Communications

**Enables:** Coordinated crisis response, rapid decision-making, reduced exposure window

**This is NOT:** General incident response, guarantee of zero downtime during zero-days

Related Resources: Zero-Day Readiness Guide · Framework Mapping · Self-Assessment