

N-to-N Redundancy



Overview

Continuous Recording Assurance for Mission-Critical Surveillance



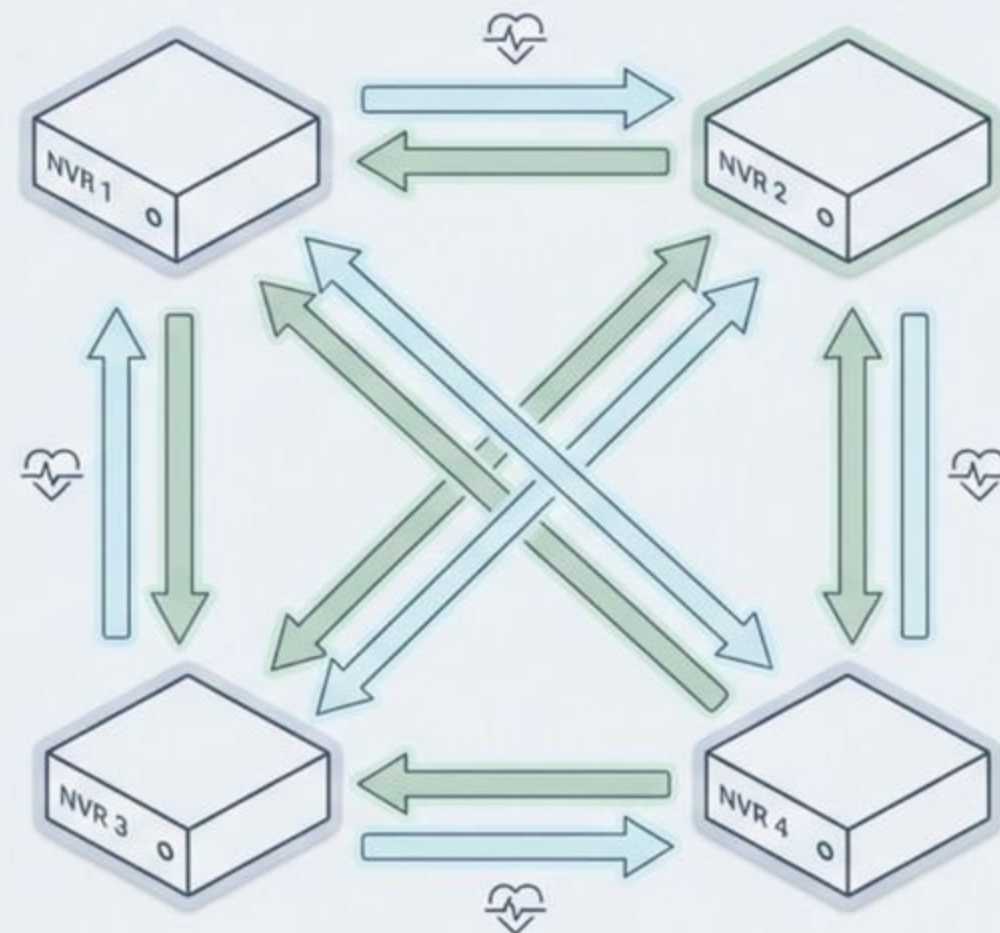
N-to-N Redundancy: A specialized surveillance solution containing a group of interconnected NVR servers.



Active Mutual Monitoring: Servers execute their primary recording tasks while actively monitoring the health of peer nodes.



Seamless Failover Execution: Instantly takes over the recording tasks of cameras from any unreachable NVR in the network.



Features

Core Capabilities of the N-to-N Architecture



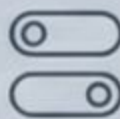
Mutual Monitoring & Seamless Takeover

NVR servers continuously watch each other, instantly assuming recording duties if a peer fails.



Auto-Sync & Hand-over

The redundancy NVR automatically synchronizes and returns camera management to the original service once the unreachable NVR recovers.



Flexible Channel Selection

Administrators can designate specific high-priority channels for redundancy mode, skipping less critical feeds to save capacity.



Unified Licensing

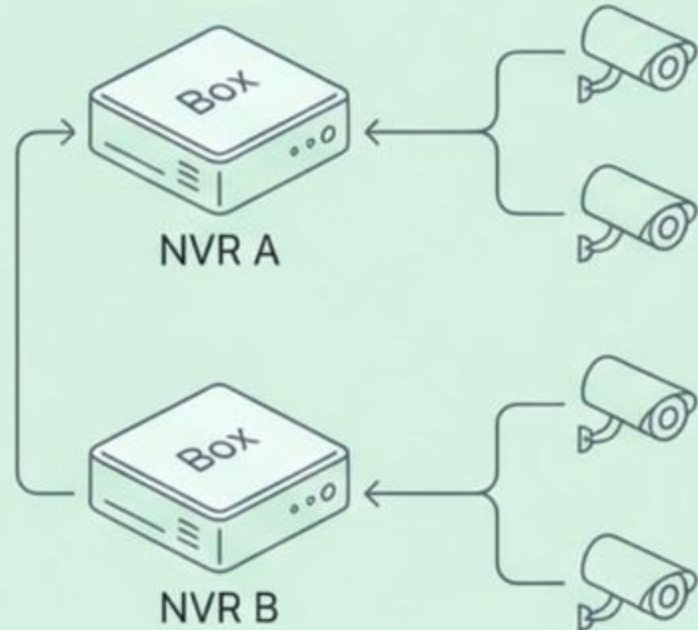
Standard regular video channel licenses are used to activate the extra channels required for redundancy purposes.

Architectures

Multi-Node Failover and Recovery Flow

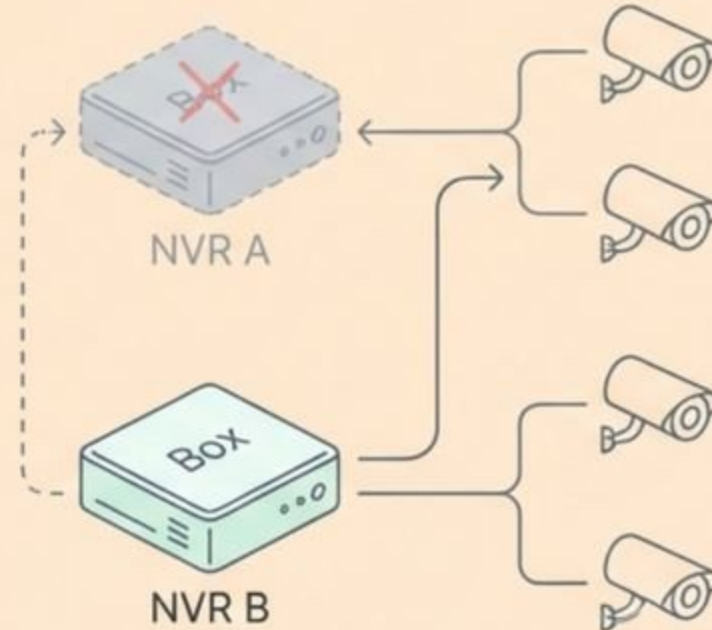
Phase 1: Normal State

NVR A and NVR B operating normally with reserved channel capacity.



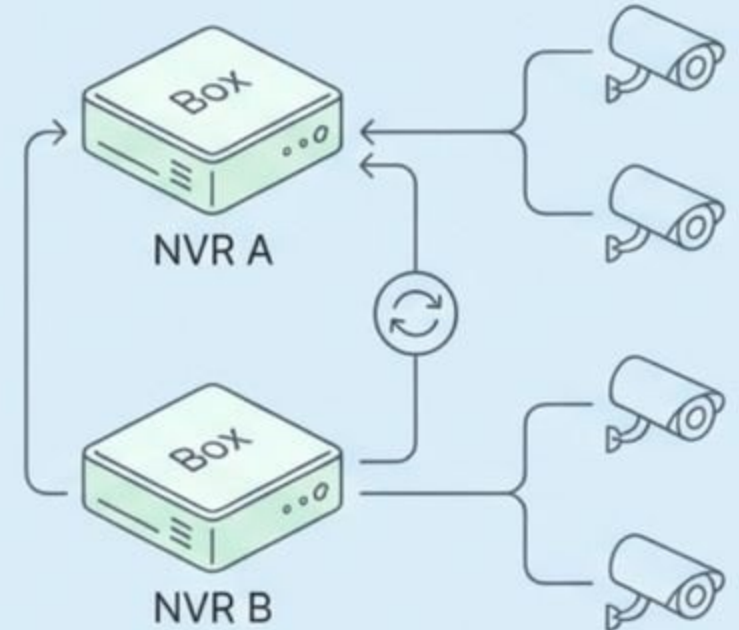
Phase 2: Failover State

NVR A drops offline. NVR B instantly takes over critical camera feeds.



Phase 3: Recovery State

NVR A returns. NVR B syncs data and hands control back.



Applications

Ideal Vertical Markets for High-Availability Surveillance



Banking & Finance

Strict regulatory compliance requiring uninterrupted video audits and secure archiving.



Casinos & Gaming

Real-time, continuous monitoring to prevent financial loss and ensure strict operational integrity.



City Surveillance & Law Enforcement

Zero-tolerance for dropped frames or lost footage during public safety incidents.



Critical Infrastructure

Power grids, transport hubs, and utilities requiring 24/7 uncompromised situational awareness.

Solutions

Software Integration and Capacity Planning



Native Integration

Redundancy service is built into Windows-based solutions like NVR 3 Corporate. No additional third-party software is required.

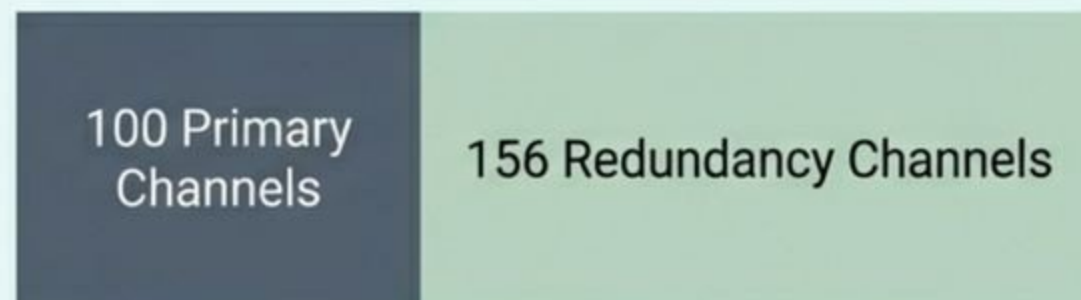


System Scaling Rule

To achieve full network redundancy, each NVR must average twice as many activated video channel licenses as active primary cameras.

Capacity Allocation Example

256-Channel NVR Capacity



Product Introduction

Supported NVR Servers and Management Software



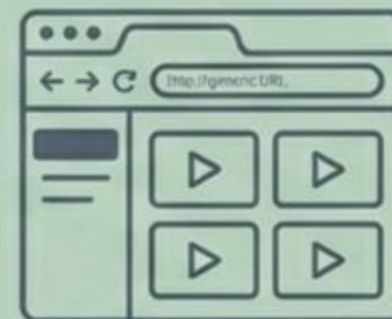
BNR Series
(Business NVRs)



GNR Series
(Professional
NVRs)



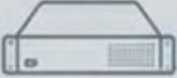
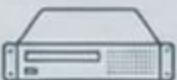
INR Series
(Enterprise-grade
NVRs)



NVR 3 Software
(Business and
Corporate)

Product Matrix

Comprehensive NVR and Software Lineup

	Business / Basic NVRs	BNR-300, GNR-350
	Enterprise Hardware (INR 4-Series)	INR-401, INR-406, INR-407, INR-413, INR-415, INR-416, INR-417, INR-418, INR-490
	High-Capacity Enterprise (INR 9-Series)	INR-930, INR-960
	Management Software	NVR 3 Business, NVR 3 Corporate

Comparison

Choosing the Right NVR Tier for Redundancy



Standalone & Basic Tier

BNR / GNR / NVR 3 Business

Ideal for smaller, targeted redundancy clusters requiring reliable failover for select critical cameras.



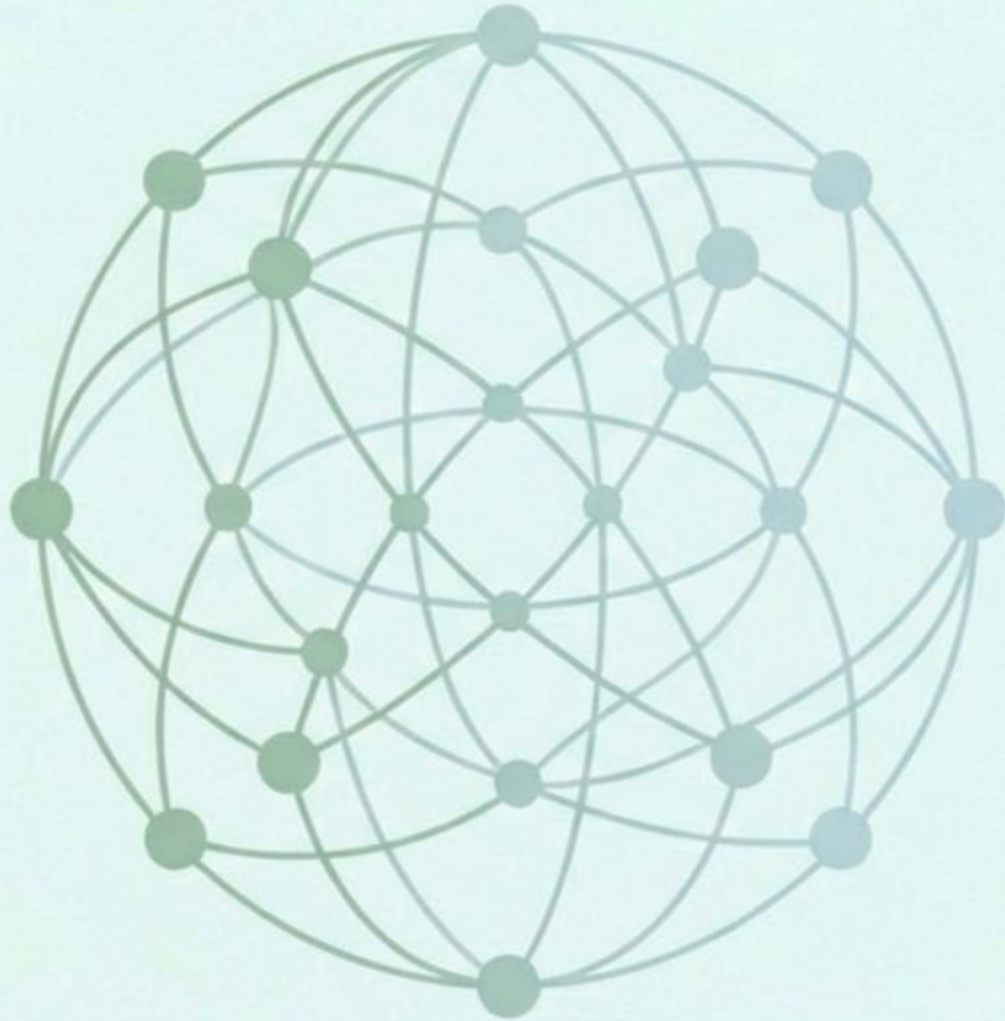
Enterprise Tier

INR Series / NVR 3 Corporate

Designed for massive N-to-N multi-server mesh topologies. Features high channel capacity natively built for complex Windows-based redundancy deployments.

Summary

Empowering Integrators with Unbreakable Video Management



- ✓ Unmatched reliability tailored for mission-critical vertical markets.
- ✓ Zero reliance on third-party redundancy software.
- ✓ Ultimate flexibility in license allocation and channel prioritization.
- ✓ A highly scalable product matrix spanning from basic configurations to high-capacity enterprise networks.

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