SOUTHERN SOFTWARE, INC
an employee-owned company

Recommended Public Safety Server Specifications (2025)

Hardware Requirements Public Safety (Based on Concurrent Users)

Specifications may pertain to either a physical server or a virtual environment. The host specifications for virtual servers lie at the agency's discretion, provided they meet the minimum requirements listed below.

1-20 Concurrent Users

• Memory: 32GB RAM (Minimum)

• Processor: 2.4GHz or higher, Hyper-Threaded, 4 Cores

• Storage: 1.5TB NVMe SSD (Preferred) or 500GB SSD (Minimum)

21-40 Concurrent Users

• Memory: 64GB RAM (Minimum)

• Processor: 2.4GHz or higher, Hyper-Threaded, 4 Cores

• Storage: 2TB NVMe SSD (Preferred) or 1TB SSD (Minimum)

41-60 Concurrent Users

• Memory: 128GB RAM (Minimum)

• Processor: 2.8GHz or higher, Hyper-Threaded, 8 Cores

• Storage: 4TB NVMe SSD (Preferred)

61 or More Concurrent Users

• Memory: 256GB RAM (Minimum)

• Processor: 3.0GHz or higher, Hyper-Threaded, 16 Cores

• Storage: 6TB NVMe SSD or higher

Physical Server Specifications

Storage

• Recommended: Scalable Storage Based on Future Growth

Networking & Connectivity

• (2) 100/1000 Gigabit Network Cards (Supports LAN, NCIC, and Future Expansion)

Power Supply

• Dual Hot-Plug, Redundant Power Supplies (Recommended for Reliability)

RAID Configuration

• RAID 5 with a PERC Hardware Controller (No Software RAID Controllers)

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Optical Drive (If Required)
• External USB DVD-RW (Internal DVD+RW Optional)

Software Requirements

Operating System
• Legacy Support: Windows Server 2012 R2 (Not Recommended)

• Minimum: Windows Server 2019 Standard Edition (64-bit)

• Recommended: Windows Server 2022 Standard Edition (64-bit)

• CALs: Appropriate Client Access Licenses (CALs) Required

SQL Server
• Legacy Support: SQL Server 2012, 2014, 2016 (For Existing Servers Only)

• Minimum for New Servers: SQL Server 2019 Standard Edition or Higher

• Smaller Environments (≤5 Users, **Excluding CAD**): SQL Server Express

Backup Solutions
• Recommended: Cloud-Based Enterprise Backup (Acronis, Veeam, or Backblaze)

• Alternative: 2TB+ External Backup Drive with Automated Backup Software (NovaBACKUP)

Antivirus & Security
• Recommended: Corporate Edition Antivirus Software

Important Notes & Best Practices

☑ Digi Ports are required for virtual servers receiving ALI from a 911 controller.

☑ One physical server can run multiple Southern Software applications if minimum specs are met.

☑ Southern Software applications support virtual environments (VMware, Hyper-V).

☑ Gigabit network preferred for optimal performance.

☑ Rack-mounted servers require 2/4 post racks (Ready Rails sliding rails preferred).

☑ SQL Server can **NOT** be a domain controller or backup domain controller.

☑ Drive Partitions:

  - OS Drive: Minimum 256GB

  - Data Drive: Dedicated Partition for Application & Database Storage

☑ VPN & Air Card required for agencies using MDIS/RMS in vehicles.