



E911 Manager[®] **Server Requirements**

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Table of Contents

| | | |
|-----|--------------------------------------|---|
| 1 | Scope | 4 |
| 2 | Requirements | 4 |
| 2.1 | Minimum Server Requirements | 4 |
| 2.2 | Recommended Server Requirements..... | 4 |
| 3 | Operating System Prerequisites | 5 |
| 4 | Ports and Protocols..... | 6 |
| 5 | Contact..... | 2 |

1 Scope

This document describes the server requirements needed to operate the RedSky E911 Manager application.

2 Server Requirements

2.1 Minimum Server Requirements

- vCPUs: 2 virtual CPUs (vCPUs)
- Memory: 16 GB RAM
- Storage: 100 GB
- Network Adapter: 1 Gb Full Duplex (VMXNET3)
- OS Support: Compatible with RHEL 8+

2.2 Recommended Server Requirements

Medium Deployment:

- vCPUs: 4 virtual CPUs
- Memory: 48 GB RAM
- Storage: 100 GB
- Network Adapter: 10 Gb Full Duplex (VMXNET3 or SR-IOV)

Large Deployment:

- vCPUs: 8 virtual CPUs
- Memory: 96 GB RAM

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- Storage: 100 GB
 - Network Adapter: 10 Gb Full Duplex (VMXNET3)

3 Operating System Prerequisites

- Ability to boot the server(s) from a physical or virtual DVD or ISO is required.
- RedHat version 8.X only (provided with the E911 Manager ISO)
- Console access (or remote console) to the server(s) are required.
 - Networking configuration including:
 - IP Address
 - Subnet Mask
 - Gateway
 - DNS Server
 - Host Name
 - Network access (HTTPS and SSH) to the server(s) is required.
 - Basic understanding of command line interfaces is required.

Important: Please note that all data will be destroyed on the server(s) during the installation process.

If the server(s) were repurposed, please ensure you have an appropriate backup prior to proceeding.

4 Ports and Protocols

| Source | | Destination | | Network/Application Protocol | Traffic Purpose |
|------------------------|------------|--------------|---------|------------------------------|---|
| Initiator | Port(s) | Receiver | Port(s) | | |
| Admin Device | 1024-65535 | E911 Mgr | 22 | TCP/SSH, SCP | OS administration over SSH |
| E911 Mgr | 1024-65535 | SMTP Server | 587 | TCP/SMTP | E-mail notifications |
| E911 Mgr | 1024-65535 | CUCM | 161 | UDP/SNMP | Query for new end point registrations |
| Admin Device | 1024-65535 | E911 Mgr | 443 | TCP/HTTPs | Web administration interface |
| Admin Device | 1024-65535 | E911 Mgr | 8081 | TCP/HTTPs | Web administration for PGPool |
| E911 Mgr | 1024-65535 | E911 Mgr | 5433 | TCP | Postgres connectivity |
| E911 Mgr | N/A | E911 Mgr | N/A | ICMP/Ping | Heartbeat for Failover/Redundancy |
| E911 Mgr | 1024-65535 | E911 Mgr | 9898 | UDP | Heartbeat for Failover/Redundancy |
| E911 Mgr | 1024-65535 | E911 Mgr | 9694 | TCP | Heartbeat for Failover/Redundancy |
| E911 Mgr | 1024-65535 | E911 Mgr | 9000 | TCP | Heartbeat for Failover/Redundancy |
| E911 Mgr | 1024-65535 | ALI Provider | 443 | TCP/HTTPs | Real time updates to ALI providers |
| E911 Mgr | 1024-65535 | AES | 443 | TCP/HTTPs | AES SOAP (Secured) |
| E911 Mgr | 1024-65535 | CUCM | 2748 | TCP/JTAPI | Used to register a CTI port to monitor 911 calls |
| E911 Mgr | 1024-65535 | AES | 4722 | TCP/CMAPI (DMCC) | Crisis Alert phone registration (Secure) |
| E911 Mgr | 1024-65535 | CM | 5022 | TCP/SSH | Administration interface over SSH |
| E911 Mgr | 1024-65535 | CUCM | 8443 | TCP/SOAP (AXL) | Communication for end instrument registration data. |
| Skype Front End Server | 1024-65535 | E911 Mgr | 443 | TCP/SOAP (HELD) | Communication for end instrument registration data. |

5 Contact

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