Mobile and Remote Access (MRA) License Key Requirements Guide

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Introduction

This document describes Mobile and Remote Access (MRA) license key requirements.

Prerequisites

Requirements

Cisco recommends that you have knowledge on these topics:

- Expressway Series and Video Communication Server (VCS) Series application.
- Successfully installed a VCS Series or Expressway Series server and applied a valid IP address reachable via web interface and or Command Line Interface (CLI).
- Applied for and received a licensing email with any option or release keys valid for the device application serial number.
- Accessed the web interface with an admin account.
- Reviewed 'Install a VCS Option Key via the Web Interface and CLI Configuration Example'
- Install VCS Option Key
- Reviewed 'Install a VCS Release Key via the Web Interface and CLI Configuration Example'
- Install VCS Release Key

- Reviewed 'Install a Cisco Expressway Series Release Key via the Web Interface and CLI Configuration Example'
- Install Expressway Series Release Key
- Reviewed 'Install an Expressway Series Option Key via the Web Interface and CLI Configuration Example'
- Install Expressway Series Option Key

Note: VCS Installation guides can be found here: VCS Installation Guides

Note: Expressway Series Installation guides can be found here: <u>Expressway Series</u> Installation Guides

Components Used

The information in this document is based on these software versions:

- Cisco VCS Series versions X8.1 and higher.
- Expressway Series versions X8.1 and higher.
- **PuTTY** (terminal emulation software)
- Alternatively, you could use any terminal emulation software that supports Secure Shell (SSH) such as Secure CRT, TeraTerm and so on.
- Licensing email with an Option Key or Release Key.
- A web browser, such as Firefox, Internet Explorer or Chrome.

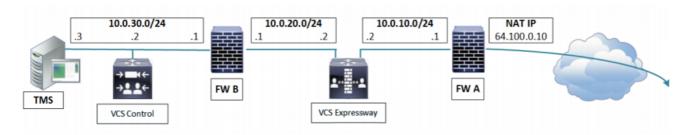
The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Configure

Network Diagram

Cisco recommends a Dual NIC VCS Series or Expressway Series deployment as shown in the image.

Figure 10 Dual Network Interfaces Deployment



Note: More information on Video Communication Server deployments found here, (Pg. 63-72): Deployment Scenarios

Configure

These web interface example videos supplement this document:

VCS Release Key Install

VCS Option Key Install

Expressway Release Key Install

Expressway Option Key Install

Required Keys

Video Communication Server - Control or Expressway - Core

- X.8 VCS Release Key for Control
- LIC-EXP-SERIES for Expressway Core

Video Communication Server - Expressway or Expressway - Edge

- X.8 VCS Release Key for VCS Expressway
- LIC-EXP-SERIES for Expressway Edge
- LIC-VCSE-E

Optional Keys

Video Communication Server - Control or Expressway - Core

LIC-EXP-RMS

Video Communication Server - Expressway or Expressway - Edge

- LIC-EXP-RMS
- LIC-VCS-DI /LIC-EXP-AN (Recommended)
- LIC-EXP-TURN
- LIC-EXP-GWY

Key Description

X.8 Video

Communication Server Release

Activates Cisco Video Communication Server

Key

LIC-EXP-SERIES Enables Expressway Series

LIC-VCSE-E Enables Expressway-E Feature Set

**LIC-VCS-DI /

LIC-EXP-AN Enables Dual NIC interfaces for Expressway-Edge

**LIC-EXP-RMS

Required for concurrent calls to and from any endpoint or application not registered to Cisco Unified Communications Manager. For example, business-to-business calls, Cisco Collaboration Meeting Rooms, Cisco Jabber Guest, and interworked calls (H.323 to SIP, H.264 AVC to H.264 SVC)

Note: Indicates Not Required For Mobile and Remote Access functionality

Verify

Use this section in order to confirm that your configuration works properly.

Add the required **MRA option** and **release** keys to the VCS Series Device or Expressway Series Device. Navigate to Maintenance > Option Keys and note the keys displayed in the **Option keys** section.

Note: For VCS Series, review Install a VCS Option Key via the Web Interface and CLI Configuration Example Install VCS Option Key.

Also review Install a VCS Release Key via the Web Interface and CLI Configuration Example Install VCS Release Key.

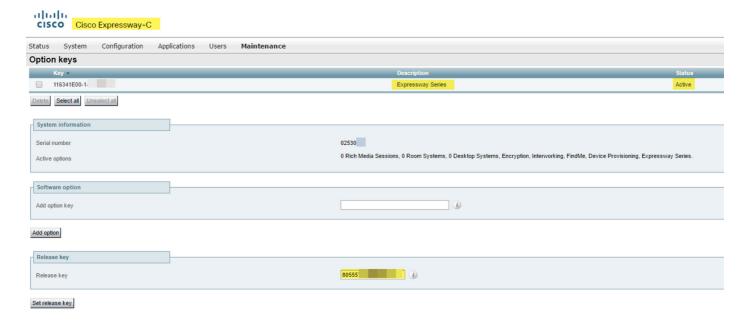
Alternatively for Expressway Series, review Install a Cisco Expressway Series Release Key via the Web Interface and CLI Configuration Example Install Expressway Series Release Key and Install an Expressway Series Option Key via the Web Interface and CLI Configuration Example Install Expressway Series Option Key

Note: This example shows and Expressway Series Core and Edge device.

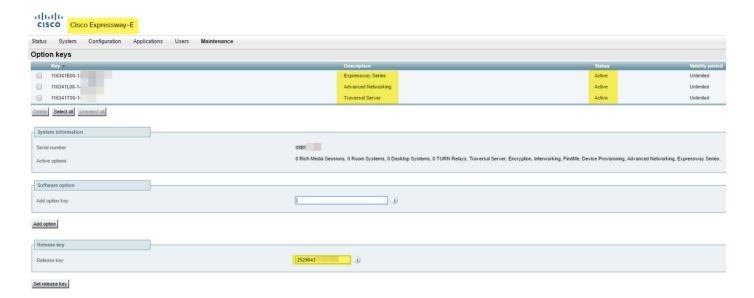
Expressway-C

^{**}LIC-EXP-TURN Enables TURN Relay Option

^{**}LIC-EXP-GWY Enables Interworking Gateway Feature (H323-SIP)



Expressway-E



Note: Adding an Expressway Series key **LIC-EXP-SERIES** requires a **RESTART** of the Expressway Series device.

Troubleshoot

This section provides information you can use in order to troubleshoot your configuration.

You should not have any issues when you install a **release key** onto a Cisco VCS Series or Expressway Series. Enter an **option key** in the **Release key** field of the device or enter an **option key** when you upgrade are the most common causes for failure. An error occurs when an option key is entered in the **Release Key** field:

A VCS Series or Expressway Series accepts any value in the **Release key** field. Reboot the device with an incorrect value entered and you receive an error "**Invalid release key**":

Install a **release key** as noted in guides recommended for review in the **Requirements** section of this guide to correct this condition.

Engage Cisco TAC for assistance for any other types of failure.