Release Notes

Command Recording Software (Windows OS) v.6.4.2

**October 2022**

# Introduction

Version 6.4.2 is a maintenance release for Command Recording Software that affects only the Windows version.

For a complete list of features and details of the previous MN.2022.1.0 release (such as supported Command software, Edge devices, system requirements, and known issues), see the MN.2022.1.0 Release Notes, available from the March Networks Partner Portal website:

<https://partners.marchnetworks.com/resource-center/>

# What’s New in 6.4.2

### Command Recording Software

**Resolved Issues**

An issue regarding the upgrade of Command Recording Software from previous versions has been solved. For the full list of resolved issues, see the **Resolved Issues** section.

**Note:** This release contains fixes only for Command Recording Software for Windows, not impacting other components of the solution, such as the Command Recording Software for Linux OS, Command Client, Command Player, and Command Enterprise Software.

# Recommended System Requirements

### Command Recording Software System Requirements

The Command Recording Software application requires a dedicated workstation, server or Virtual Machine. The following table outlines specifications for the Operating System and CRS with typical usage, under the assumption that you configure the cameras to consume 2-4 Mb/s of bandwidth each, including multiple encoders. For large camera numbers we recommend not to exceed an overall input bandwidth of 1 Gbps.

The HDD space is the amount of space recommended for the operating system, CRS application, and free space necessary for the configuration backups and install files. Video Storage requires a dedicated storage volume, not on the C drive (operating system drive). All systems and the operating system must be 64-bit**.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | SMALL Less than 32 cameras | MID 32 to 64 cameras | LARGE 65 to 128 cameras | EXTRA LARGE   128 to 500 cameras |
| **Operating system** | Windows Server 2012, 2012 R2, 2016, or 2019  Windows 8.1, 10 or 11  (All systems including the operating system must be 64-bit.) | | | |
| **Processor (CPU)** | Dual Core Intel i5 | Quad Core Intel i7 | Quad Core Intel Xeon | Eight Core Intel Xeon Silver |
| **HDD Space** | 100 GB | 100 GB | 200 GB | 100 GB + 100GB every 100 cameras |
| **Storage for Video Archive** | Storage volumes for video recording must be exclusive to the CRS and managed by the CRS server’s Operating System. Consider RAID volumes for optimal performance and resilience.  For external storage, consider DAS (Direct Attached Storage) or Block Level SAN technologies such as iSCSI or virtual disks. We do not recommend SMB/CIFS storage because of inconsistent performance.  Use the [March Networks System Design Tool](http://storagetool.marchnetworks.com/app.html) (or an appropriate third-party camera calculator) to calculate the required storage size to meet retention needs. It is extremely important that the Video Storage volume and its connection to the CRS can indefinitely sustain recording on all cameras simultaneously (consistent write speed is greater than the total camera aggregated bit rate).  Consult your March Networks Sales Engineer for any questions or concerns. | | | |
| **Network interface** | Gigabit Ethernet | 2 x Gigabit Ethernet (dedicated NIC for camera network) | 2 to 4 x Gigabit Ethernet (One or more dedicated NICs for camera networks) | 4 x Gigabit Ethernet (Two or more dedicated NICs for camera networks) |
| **Memory** | 4 GB Minimum | 8 GB | 16 GB | 32 GB |

**Notes:**

1. We recommend using at least 6th generation Intel Core architecture, or AMD Zen architecture processors.
2. It is not possible to downgrade to a previous release once you upgrade to CRS release 2.9 or higher

### Command Client, Command Player, and Command Config System Requirements

The following table outlines the requirements for Command Client.

|  |  |  |
| --- | --- | --- |
|  | Command Client, Command Player, and Command Config  Minimum Specs | Command Client  Optimal Performance |
| **Task** | Minimum video access, one or two simultaneous stream playback and export. | Dedicated Command Client workstation with up to 4 monitors for simultaneous live streams, playback and export. Max number of simultaneous streams depends on total FPS and bit rate of all viewed cameras. |
| **Operating system** | Windows 8.1, 10 and 11 with Microsoft .NET Framework 4.5.2 installed | Windows 10 and 11 64-bit with Microsoft .NET Framework 4.5.2 installed |
| **Processor (CPU)** | Quad Core Intel i5 or equivalent | Eight Core Intel i7 or equivalent  6th Generation Intel® Core™ Processors   * Skylake (2015) and later * AMD Zen (2017) and later |
| **HDD space (clients)** | 200 MB | 200 MB |
| **Network interface** | Ethernet | Gigabit Ethernet |
| **Memory** | 4 GB (minimum) | 8 GB |
| **Video card** | Intel HD 4000 video card (minimum) or an equivalent video card compatible with Microsoft DirectX 11 and Direct3D | 1 GB Dedicated video card for every monitor.  Microsoft DirectX 11 and Direct3D |

**Notes:**

1. March Networks recommends using at least 6th generation Intel Core architecture, or AMD Zen architecture processors.
2. March Networks recommends that installations with a high number of megapixel cameras and live viewing enable multi-streaming (high and low resolution streams) for all cameras. Displaying low resolution streams helps to limit CPU overhead for live monitoring on Command Client, Site Manager, and Decode Station VX workstations.
3. A 64-bit Operating System is required for smooth reverse playback in Command Client and Player.
4. March Networks recommends Windows 10 for optimal performance.
5. For Windows 8.1 users, it is required to download and install the following updates from the Microsoft website. The updates must also be applied in the following order:  
   1- KB2919442  
   2- KB2919355   
   For more information about the updates, please click the following links:   
   <https://support.microsoft.com/en-us/kb/2919442>   
   <https://support.microsoft.com/en-us/kb/2919355>
6. March Networks does not support Command Client in Virtual Desktop Infrastructure (VDI). VDI is not ideal for CCTV clients because its architecture shares a pool of resources between multiple simultaneous clients. This means that client performance is dependent on available hardware resources, backend software and configuration, number of concurrent sessions, number of simultaneous streams viewed, and their profiles.
7. If .NET Framework 4.5.2, Microsoft Visual C++ 2019 Redistributable, and the UCRT library are not installed on the Client computer, the Command Client and the Command Player EXE installers automatically trigger the installation of the component (an internet connection is required).   
   The MSI installers only install the Command software. You must ensure that the .NET Framework 4.5.2, Microsoft Visual C++ 2019 Redistributable, and the UCRT library are on the computer already.   
   For the .NET system requirements, consult the official Microsoft website.

**Resolved Issues**

Command Solution Resolved Issues

| Issue ID | Resolved Issue Description | Affects |
| --- | --- | --- |
| **MNS-32194 MNS-32195** | Resolved: Fixed an issue that could prevent recording on motion upon upgrades from Version 6.2.0 | CRS (Windows version) |