

# March Networks Recorder Release 5.11.0

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**January 2018**

## *Introduction*

March Networks Recorder Release 5.11.0 consists of new features for the recorders and the provisioning changes required in the Administrator Console to enable these features. These release notes describe the updates that have been made to the recorder firmware and provisioning software. Release 5.11.0 GA refers specifically to recorder firmware release **5.11.0.0094**.

## **What's New in Recorder Release 5.11.0?**

Release 5.11.0 is a feature release that contains the following new features:

### **RTSP Stream Delivery from Recorder**

A third-party application can now request authenticated RTSP streams from a recorder. This enables integration with the recorder for simple camera viewing.

### **Provisioning Command "scandisk" Deprecated**

You cannot use the provisioning command 'scandisk' on any recorder with RAID (such as the 8516 SR or RR NVR). Due to changes in drive firmware the scandisk function is no longer necessary and has been deprecated. Using this command with some hard drives may fail, and use with SSD drives is not recommended. This command is slated for removal in future releases.

### **Default Video Out Configuration**

Traditionally the default configuration for video out was to cycle through analog cameras. On the 8724 V Tribrid NVR, there is no default streaming to the video out port. Note that the 8724 V recorder does not have a composite output (BNC), so video output is performed through the HDMI output.

### **Mark for Replacement and Mass Management**

The Command Enterprise Mark for Replacement and Mass Management features are now supported for the 8724 V Tribrid NVR.

### **9000 IP Recorder Support**

The 9000 series is a high performance, license free, Linux based IP recording platform designed to capture HD video from up to 64 cameras and seamlessly integrate to March Networks' industry leading enterprise management software. Available in 32, 48, and 64-channel models, the 9000 Series recorders are ideal for enterprise-level organizations that need additional video capacity and higher throughput.

#### **Visual Intelligence 5.11.0**

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## What's Coming Soon?

Release 5.11.0 also supports the following updated hardware features, to be released when available.

### RAID support for 8516

There are two new offerings of the 8000 Series NVR with integrated H/W RAID (8516 SR and 8516 RR). Release 5.11.0 will be the minimum ship version for these recorders. The H/W RAID option for these units is not available as a field upgrade.

Note the following recommendations when using the RAID models of the 8000 Series:

- New alerts for RAID have replaced previously existing RAID alerts, with the exception of the rebuild alert. The default threshold has been set to always report. Please review the RAID rebuild alert threshold if you have customized it in the past.
- If you have to replace a hard drive in the array, ensure that the replacement hard drive is either a brand new drive or has been pre-formatted to clear any other data from it. The RAID array will not rebuild if the replacement disk already contains data.
- Creating an array where one drive is smaller than the other drives causes the array to conform to the smallest drive. For example, in an array with three 8TB drives and one 4TB drive, the system behaves as if it has four 4TB drives.
- You cannot rebuild the RAID by replacing a failed hard drive with a smaller size hard drive. For example, in a RAID configuration with four 8TB hard drives, you cannot replace one of the drives with a 4TB hard drive.
- If a RAID array fails and is rebuilt, the Operation and Recording LEDs remain red until after the required reboot has been completed plus a minute or two until the new array is ready.

### 8724 V Tribrid NVR HDoC Support

A new module will soon be available for the 8724 V, which will enable the recorder to capture video from HD analog cameras. Release 5.11.0 will be the minimum ship release for configurations of the 8724 V which support HD analog cameras.

## Version Information

If you are planning to upgrade the recorders in your network to release 5.11.0, you must ensure that the other components of your installation are at the versions in the list below:

### Release Line-Up

Software Package	Version	Changed
Command Enterprise (includes Command Client)	2.3.0	Yes
Command Client	2.3.0	Yes
Command Mobile (download from Apple App Store or Google Play Store)	1.1	Yes
Command Player	2.3.0	Yes
Discovery Browser	4.1.3	Yes
Site Manager	3.9.6.82	No
Administrator Console (9000 & 8000 Series, Gen4 4000)	5.11.0	Yes
Recorder Firmware (8724 V)	5.11.0	Yes
Recorder Firmware (9000 Series)	5.11.0	Yes
Recorder Firmware (8000 Series)	5.11.0	Yes
Recorder Firmware (Gen4 4000 Series)	5.8.1.2005	No
Command Recording Server	2.3.0	Yes
Recorder Firmware (6700 Series)	2.4.0	No
Authentication Tool	1.11.1	No
Command SDK	2.3.0	Yes
CRS Active X SDK	2.1.0.63	No
Visual Intelligence ESM	5.11.0	Yes
Visual Intelligence Clients	5.11.0	Yes
Visual Intelligence Active X SDK	5.11.0	Yes

For the list of supported cameras and encoders, please visit the March Networks official website at: <https://www.marchnetworks.com/partners/integrations/nvr-integrations/>

## Resolved Issues

The following issues have been resolved in this release.

Issue ID	Description	Affects
<b>35611</b>	An issue where constant motion on a camera stops and causes a VMS alarm to activate has been resolved.	NVR
<b>35376</b>	The service OpenSSH has been updated to a version higher than 7.6, which contained a medium vulnerability.	NVR
<b>35291</b>	Motion detection now works correctly with Vivotek cameras.	NVR
<b>35246</b>	It is no longer necessary to reset local authentication when investigating drives from a recorder that had local authentication turned on.	NVR
<b>35185</b>	The recorder is no longer vulnerable to a “KRACK man-in-the-middle” attack on the WiFi interface.	NVR
<b>35092</b>	It is now possible to investigate hard drives from a lower release recorder (for example, 5.7.9 SP1) in an Investigation Station running a higher version of firmware.	NVR
<b>34991</b>	Support for JPEG on Panasonic cameras has now been added.	NVR
<b>34109</b>	Enabling the provisioning command “setinvest”, which changes a recorder’s function to investigate the hard drives installed (investigation mode), has been added to the audit logs of the recorder.	NVR
<b>33969</b>	When performing a search using Smart Search, cameras that have been experiencing constant motion (for example, branches blowing in the wind) now report motion results.	NVR
<b>33615</b>	The ACTi camera now shows correct levels in the motion histogram. <b>Note:</b> Ensure that your ACTi camera is running the latest available firmware for this to operate correctly.	NVR
<b>30938</b>	The installation of web service files that potentially made the ESM server vulnerable to clickjacking have been removed in the latest installation package for the ESM. Upgrading the ESM using the latest installation package will ensure that these files are removed.	ESM

## Known Issues and Limitations

The following issues have been detected, but not resolved in this release.

Issue ID	Description	Affects
35647	After upgrading to 5.11.0, if the recorder is not able to immediately connect to the CES it temporarily shows "not registered" if you execute the 'showces' command in the provisioning interface. (Note that the Administrator Console is not affected and shows the correct status.) <b>Workaround:</b> This is resolved when the recorder connects to the CES.	NVR CES
35504	If you attempt to register a recorder to a CES when there is a large time difference between the recorder and the CES (greater than 30 seconds), the registration may not complete correctly. <b>Workaround:</b> If this occurs, wait until the recorder has completed the registration, then change the 'Time Sync method' to 'Management Server'. Alternatively set the 'Time Sync method' to 'Manual' (and click Synchronize Device). For more information on changing the Time Sync method, see the Administrator Console 5.11 User Manual.	NVR CES
35147	When a module is removed from an 8724 V Tribrid NVR, the health alert appears, but it does not identify the type of module that is missing. <b>Workaround:</b> None, the service personnel will know which type of card was removed.	NVR
35002	When using RTSP streams from a recorder, video channels that do not support key-on-demand do not deliver a displayable frame for what could be an extended period of time. <b>Workaround:</b> Configure the camera for frequent key frames (1 key every second).	NVR
34473	A recorder in investigation mode may restart when playing back video if it is investigating hard drives from a recorder with a higher version of firmware. <b>Workaround:</b> The recorder used as an Investigation Station should always run a version of firmware higher or equivalent to the recorder version that was used to write the video to the hard drives under investigation. Use the following steps: <ol style="list-style-type: none"> <li>1. Remove all hard drives from the recorder being used as an Investigation Station.</li> <li>2. Power up the recorder and disable 'investigation mode' using the Provisioning Interface command 'setinvest'. Then execute a 'rebootdvr'.</li> <li>3. Once the recorder is running again, apply the upgrade to the required version (same version or higher than the recorders to be investigated).</li> <li>4. Once the upgrade is complete and the recorder is available, re-execute 'setinvest' and re-enable investigation mode.</li> <li>5. Either execute 'rebootdvr' or power down the recorder and re-add drives that require investigating as per provisioning interface instructions.</li> </ol> <b>IMPORTANT:</b> Do not add the drives for investigation until after step 4. Failure to do this will cause data and media to be written to the drives and likely result in loss of recorded media from the drives.	NVR