

## Release notes for NetDVR Rev 6.0b

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### 1. General

Revision 6.0b extends the utilization of the NetDVR platform in multi-user organizations by removing the limitation of five concurrent remote clients (NetGuard and NetGuard-EVS), thus allowing an unlimited number of concurrent users to access video from a single NetDVR server.

In addition, the new revision includes fixes to a number of known issues as well as improved NetGuard-EVS functionality.

### 2. NetDVR 6.0 – (NVR component)

- **Unlimited number of concurrent remote client connections**
  - Image Server now allows unlimited concurrent NetGuard Remote Client and NetGuard-EVS connections, removing the previous limit of five concurrent users.
- **Recording Server/Administrator fixes**
  - Fixed an issue where the viewer couldn't be launched when the Recording Server was set to run as the user logged into Windows with the same user rights.
  - Fixed an issue where the Recording Server would hang when exiting the Administrator because a camera's database did not close properly
  - Fixed an issue where the Recording Server on rare occasions wouldn't shut down properly, and instead catches an error and re-starts
  - Fixed an error where using many megapixel cameras would cause Recording Server instability
- **ImageServer fixes**
  - Fixed an issue where the ImageServer would lockup when receiving simultaneous xml requests
  - Fixed an issue where the ImageServer would not function properly when browsing through extended archiving periods for large camera views
- **Viewer fixes**
  - Fixed an issue where an exported database could not be opened by navigating to its .pgz file.

### 3. NetGuard-EVS 4.0i – New Features

- It is now possible to stop/pause a camera's patrol sequence directly from the NetGuard-EVS.

#### 4. NetDVR 6.0 – New Features

##### a) General

NetDVR 6.0, the new version of the OnSSI's single-server IP video surveillance platform, now delivers all of the core features of the top of the line NetDVMS multiple-server NVR and camera management system. The new release includes a new set of video clients —NetGuard-EVS, NetGuard, NetCell and NetPDA— all free and included in the NetDVR package. In addition, NetDVR 6.0 is now bundled with the NetMatrix Intelligent Viewing add-on, and is also compatible with the NetSwitcher video wall virtual display matrix.

With the addition of the NetGuard-EVS video client, and the ability to run the Monitor application as a Windows® Service (making it more compliant with today's IT environments), NetDVR 6.0 is now intended mainly for operating in client-server mode (where the PC or server running the NVR software is not used for viewing video). Client operations are therefore moved away from the Monitor application and out to the NetGuard-EVS client.

**Note:** as the new version of NetDVR is now bundled with a number of existing components (the NetGuard-EVS, NetPDA and NetCell clients, as well as the NetMatrix intelligent viewing application), the following will list only their main functions and features. Please visit [www.onssi.com](http://www.onssi.com) for full descriptions and technical specifications.

##### b) NetDVR 6.0 (NVR component) – new features

- **Included Video Clients and NetMatrix add-on** – NetDVR 6.0 is now bundled with an array of video clients. NetGuard-EVS, OnSSI's advanced remote video client, joins the already-included NetGuard client, allowing up to five concurrent users (NetGuard-EVS and NetGuard combined) to remotely monitor and investigate video. The NetPDA and NetCell portable video clients enable 'on-the-beat' monitoring and video playback over wireless networks. In addition, NetDVR 6.0 includes the NetMatrix Intelligent Viewing add-on, previously available as an option for NetDVR users. More info in 'Included Clients and Add-ons'.
- **Recording Server Service** – NetDVR 6.0 is now intended to run as a Windows Service, making it more compliant with today's IT environments. In this mode of operation, the new Recording Server Service provides the server-side recording and camera management functionalities, while video monitoring is done via the NetGuard-EVS client. This eliminates altogether the need for the NetDVR Monitor application and almost doubles the Frames-Per-Second performance of the server.

For users who nevertheless wish to monitor video on the NetDVR Server PC using the NetDVR monitor (as in the previous versions of the software), the option to install the monitor application will be available during the installation of the software. If selected, the software would not be able to run as a service. Note that this mode of operation is not recommended.

- **Audio Support** – Live and playback audio from certain cameras' built-in microphones is now supported via NetGuard-EVS. The audio source to be activated with each camera stream is selected in the NetDVR Administrator module under each camera's settings (user rights for accessing audio sources are set in the ImageServer, similar to user rights for accessing cameras). In addition, audio-video synchronization has improved dramatically in the new version of NetDVR. Please check [www.onssi.com](http://www.onssi.com) for full list of audio-supported cameras and encoders.

**Audio export** – with the addition of NetGuard-EVS, users can export audio together with video from within the NetGuard-EVS client itself, into tamper-evident database format. Export of audio with video into AVI format is available via the NetDVR Viewer.

**Note regarding audio archiving:** NetDVR 6.0 will record audio continuously, regardless of video motion, resulting in a larger amount of records to be archived. In NetDVR, archiving takes place once a day, with a daily database capacity limited to 600,000 records (maximum 40GB). Since audio is archived in addition to video (i.e. in separate records), adding audio archiving will deplete the archive database capacity faster than video archiving only. As a rule of thumb audio can use up to as much video records over a 24-hour period as video; thus, if video uses up 100,000 records (frames) a day, audio could use up to 100,000 additional records.

- **Allow Cameras to Run in Background** – When running NetDVR 6.0 in Monitor mode, cameras can now run in the background, i.e. they are still being recorded even though they are not displayed in the NetDVR Monitor application. This is useful when using covert cameras.
  - **Multiple PTZ Patrol Sequences** – It is now possible to set up multiple patrol sequences, controlled by the scheduler (previous versions allowed defining only one patrol sequence).
  - **Start Cameras on Live Request** – In addition to bringing cameras online and offline via the scheduler, it is now possible to override the scheduler upon request for live video from the NetGuard-EVS client software (the requested camera will go offline as soon as the live feed request is stopped.)
  - **Smart Search and Export Encryption in Viewer** – It is now possible to perform motion smart-search on recorded video in the viewer software as well as encrypt the video when exporting in database format.
  - **User Account Authentication** - Remote access to the NetDVR ImageServer now supports local Microsoft Windows user account authentication. Note that Active Directory user authentication is not supported by NetDVR.
- c) **Included Clients and Add-ons (For more information, please visit [www.onssi.com](http://www.onssi.com)).**
- **NetGuard-EVS 4.0** – the NetGuard-EVS client is now the main interface for video monitoring and investigation, in conjunction with the NetDVR platform. It allows creating views of up to 64 cameras per screen, supports multiple screen operation, and provides a wide array of investigation tools. Main features include:
    - Map-based navigation and drill down to cameras
    - Click-drag, mouse-wheel, joystick or onscreen controls PTZ control
    - Multiple, configurable camera views
    - Hotspot camera display
    - Assignable 'Alert Viewers', which receive push-video upon events from the NetMatrix Server
    - Peer-to-peer push live video, to other users' Alert Viewers
    - Carousel monitoring mode
    - Camera presets and patrol sequences
    - Advanced investigation tools, including: synchronized playback of all cameras displayed; digital PTZ into recorded video with full view picture-in-picture display for easy orientation; variable-sensitivity motion smart-search; instant access to alerts and motion sequences with video panel preview; and motion histogram of all cameras displayed.
    - One-way audio support (camera microphone to NVR)
    - Audible alerting upon motion detection
    - Audio export with recorded images into tamper-evident database format
    - User rights management for access to views and cameras
    - Up to 5 concurrent NetGuard-EVS and NetGuard (combined) users
  - **NetPDA and NetCell Portable Clients** – Full-featured mobile clients, providing access to live and recorded video over Wi-Fi and cellular networks. Main features include:
    - Username & password protected
    - Full PTZ and preset control
    - Bi-directional playback with frame-by-frame & variable speed
    - Time/date & Next Incident seek
    - On-camera contact closure output control

- Multi-parameter archive search
- Access to video via alarms list
- Continuous bandwidth optimization
- Full screen (horizontal) mode with pan & tilt camera controls
- Compatible with Windows® CE/Mobile PDAs & Smartphones

Note: the NetPDA/NetCell server application is not supported on MS Window® Vista.

- **NetMatrix** – The NetMatrix intelligent viewing add-on provides automated push of on-event video to users' NetGuard-EVS video clients or NetMatrix alert displays, as well as peer-to-peer push of live video. The NetMatrix component is installed as a part of the main setup.

**d) Installation & Remote Access Notes**

- .Net Framework 2.0 Required - NetGuard-EVS, included in NetDVR 6.0, requires Microsoft .Net Framework 2.0. Users will be prompted to install the .Net Framework if it is not already installed on the NetGuard-EVS client machine.
- Remote Web Access – the NetGuard client, operating in browser mode (i.e., no software installation required), replaces the Remote Web Access application. The Remote Web Access application is not available in NetDVR when installed as a Windows service.