

Release Notes for NetEVS Rev 2.0d

Initial Product Release, July 8, 2009

In this document:

1. General
2. Highlights and Features
3. System Diagram

1. General

NetEVS is a multi-site, multi-server, centrally-managed distributed network video recorder (NVR), intended as a high-end recording solution for the OnSSI Ocularis PSIM (Physical Security Information Management) platform.

NetEVS supports an unlimited number of recording servers, cameras and video client users, across the organizational network. It features a central system management which dramatically reduces the complexity of managing edge devices, hardware, networking and user rights. This is achieved by implementing a single, system-wide rule-based management application, which increases efficiency while lowering total cost of ownership.

NetEVS runs on off-the-shelf PCs and servers, and offers support for cameras by all leading manufacturers, as well as support for all industry-standard video compression formats – MJPEG, MPEG4, H.263 and H.264.

As a recording solution for the Ocularis PSIM, video, audio and events in NetEVS is integrated with Ocularis Add-Ons and 3rd-party applications, including video content analytics, video wall management, access control and other physical security systems, transaction and IT systems. This allows for monitoring and managing larger camera arrays by the same number or fewer operators, who receive filtered, significant video streams of events and exceptions.

Video (and audio) from NetEVS-connected devices, as well as alerts generated by integrated systems, are monitored the high-performance Ocularis Client, a unified video client for desktop and video wall settings. Ocularis Client provides an intuitive, touchscreen-enabled interface for live monitoring, assisted by instant investigation capabilities (playback, optical PTZ and digital PTZ, in all modes of live monitoring), as well as multiple browsing and investigation tools. Using Ocularis Client, multiple operators at multiple sites can share the handling of events, bookmark segments of video and export video clips as evidence in both AVI and multi-camera database formats.

2. Highlights and features

Note: the following refers only to the NetEVS recorder. More information about the Ocularis Platform and the Ocularis Client is available at www.onssi.com.

- **Multi-server/ multi-site IP video recorder for OnSSI Ocularis**
Unlimited recording of MJPEG, MPEG-4, MxPEG and H.264* video from IP cameras or analog cameras connected via video encoders. Video recording can be set to be continuous, or activated on motion or event, with speed-up on event and pre/post buffer.
- **Unlimited scalability**
NetEVS supports an unlimited number of recording servers at multiple sites and unlimited connected devices per recording server.
- **Rule-based centralized management**
All NetEVS recording servers, connected devices and users are centrally managed from the remote Management Server. NetEVS' rule-based management allows easy configuration of camera definitions, output actions, storage locations or any other attribute, based on schedule (with multiple time profiles, or event. The NetEVS management application allows simultaneous configuration of entire server groups, user groups and device groups connected to multiple recorders. This eliminates the complexity of configuring devices connected to each server individual.
- **Full automatic failover capability**
Single or multiple failover servers can be configured to automatically activate in the event of a recording server failure. There is no limit on the number of failover servers, and no additional cost is incurred.
- **Multicast support**
Multicasting allows many or all users to view the same camera stream, using fewer system resources than allocating a dedicated stream to each user. (Note: multicasting must be supported by the network infrastructure.)
- **Multi-stream/dual stream support**
When available by the camera, separate video streams, at different resolution, encoding and video compression format settings, can be assigned for live monitoring (usually MPEG4 at a high frame rate) and recording (usually MJPEG at a low framerate).
- **Per-camera storage allocation**
Each camera can be assigned a different amount of storage (based on either absolute storage size or retention time) as well as storage location.
- **Flexible no-gap archiving**
Video data can be transferred multiple times a day to local and network drives for archiving, while recording is active, with no gap in recording and no interruption whatsoever to ongoing recording.
- **Automatic detection and model identification of connected devices**
NetEVS will scan the entire camera network or IP address range to identify new or modified cameras and encoders by all leading manufacturers.
- **Centralized SQL-based logging**
All management operations, including system configurations, event definitions, audits, rules and alerts, are regularly logged by the NetEVS management server, with local offline log caching.

- IPv6, NAT and DNS Support

NetEVS supports the IPv6 128-bit addressing convention (in addition to IPv4), allowing for higher flexibility in network configuration. In addition, NetEVS supports NAT (Network Address Translation) and DNS naming conventions.

- User authentication

NetEVS supports user authentication via MS Active Directory and/or local Windows user accounts.

3. System Diagram

