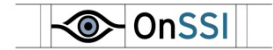


## OnSSI and Barco

### OnSSI Ocularis integrates with Barco CMS visualization

#### On-Net Surveillance Systems

On-Net Surveillance Systems, Inc. (OnSSI) offers breakthrough VMS technology that's field proven at thousands of installations globally. The company's flagship **Ocularis** IP security and surveillance platform delivers open architecture, scalability and superior process automation. Ocularis is available as a stand-alone software solution, or pre-installed in best-in-breed servers to simplify implementation – with extreme cost-efficiency while affording future expansion. For remote applications, Ocularis Web and Mobile utilize OnSSI's High Definition Interactive Streaming (HDIS) provide the fastest and highest resolution mobile and web access video delivery solution available.



#### Barco

Barco provides flexible and mission-critical visualization software and hardware products consisting of high-quality displays, rear-projection and near-seamless LCD video walls, graphics controllers and a **Control Room Management suite (CMS)** – an advanced software for easy display wall management, efficient collaboration and fast decision making based on sharing the right visual information at the right time easily.

#### General Concept

Ocularis, OnSSI's flagship IP video surveillance and security platform, is a comprehensive video management system that combines powerful network video recorders (NVRs) with physical security information management (PSIM) functionality. Ocularis represents the latest evolution in IP video surveillance and security. As an integrated video and event management platform, it includes a full-fledged video management system (VMS) for streaming, recording and managing an unlimited number of cameras at multiple sites. This concept is now being extended to Barco video walls. The Barco video wall controller will independently and natively request and decode the requested streams from the Ocularis Media Server and populate them on the Barco video wall grid.

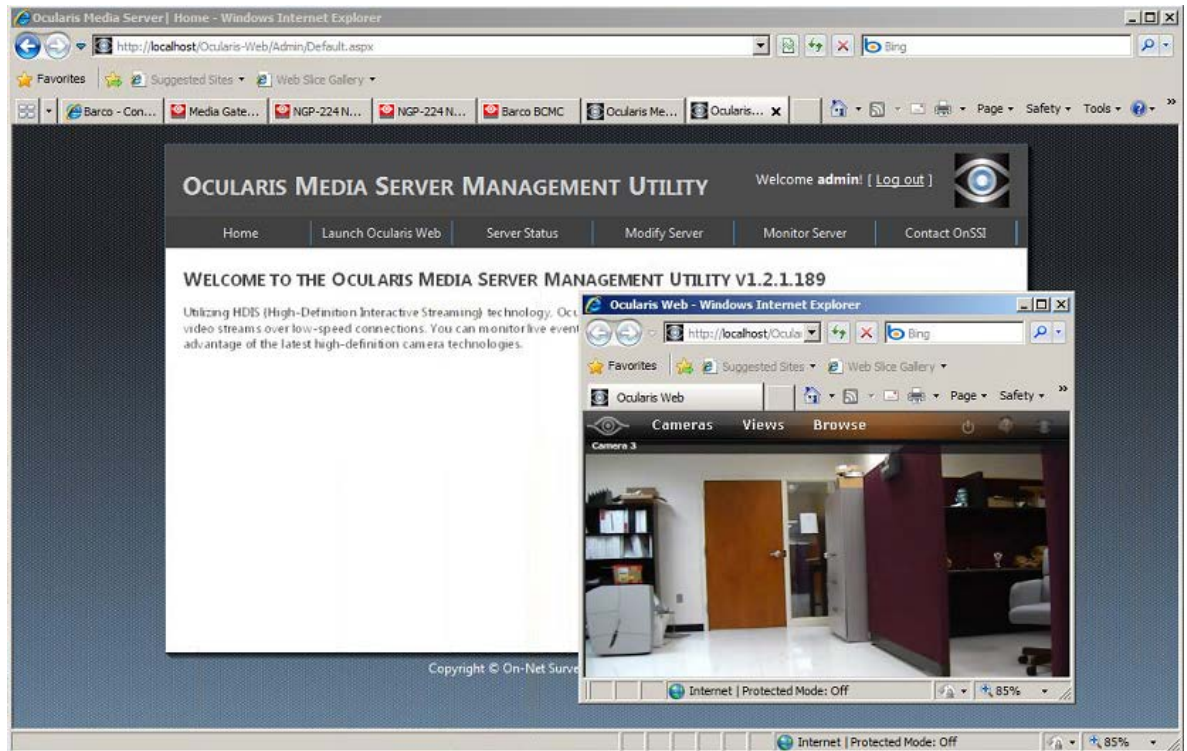
#### Benefits

- **Enhanced interoperability** towards multitudes of cameras and NVRs supported by OnSSI through the integration of OnSSI OMS into the Barco collaborative visualization platform (“scalable & maintainable interoperability”)
- **Situational awareness anywhere** since OnSSI's integration takes full advantage of the fact that Barco CMS is able to manage and distribute content and layouts on several displays, not just one video wall, thus creating situational awareness wherever needed. (“share faster and resolve quicker”)
- **Proven solution** due to an integrated display management and visual collaboration making full use of the distributed nature of Barco's CMS (Control Room Management Suite) visualization platform (“one integrated system for visualization and collaboration”)

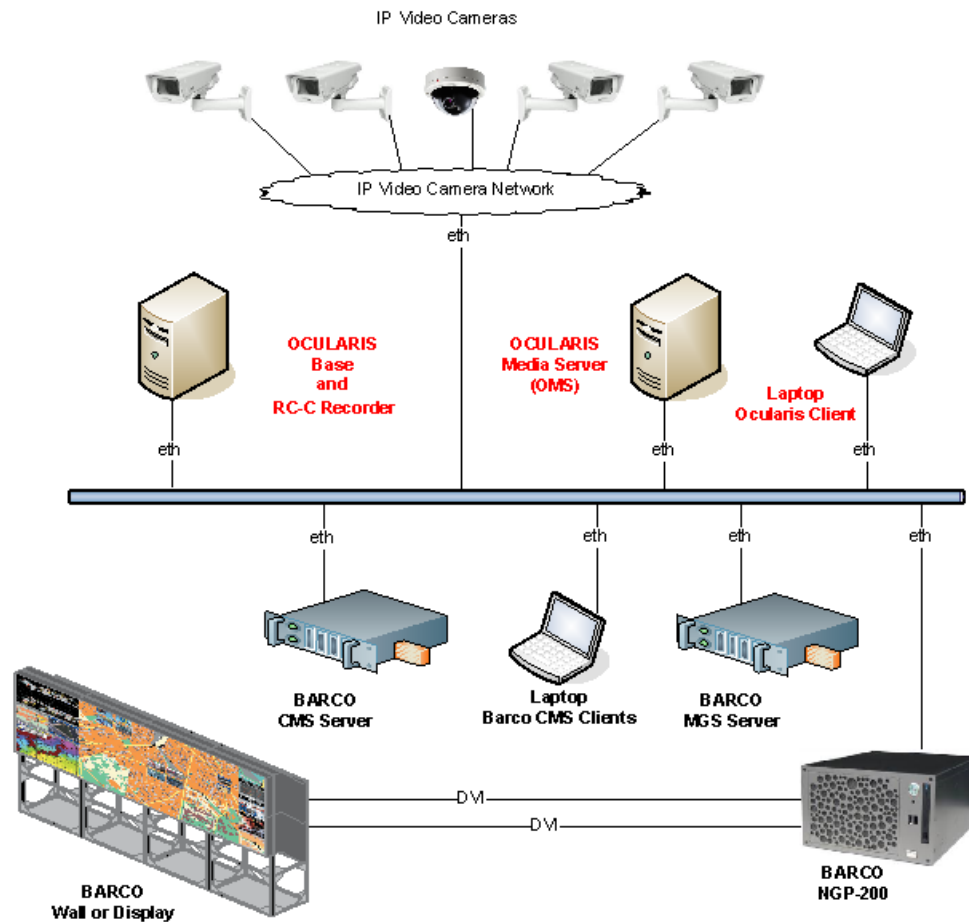
## System control through Barco CMS

- Camera sources are made available in the Barco CMS Sidebar as the main GUI for use in perspectives and sharing on displays.
- Sources between the OnSSI database and Barco CMS are synchronized through use of the Barco API and the OnSSI OMS API. Alternatively both databases (OnSSI + CMS) can be synchronized manually when API synchronization is unavailable.

## Configuration Interface



## Architecture



## Integration Flow

Local camera sources are defined within the Ocularis platform. The camera sources are stored in the Ocularis system. The Ocularis Media Servers (OMS) are polled every 20 - 30 seconds (configurable) and the sources which are defined in the OMS are copied over to the CMS Server database. The Barco Sidebar client is updated with the camera sources automatically. Sources that are shared to a perspective and eventually the Display Wall will be taken from the Sidebar sources created when the CMS database is updated. The Barco MGS media gateway handles the required protocol conversions.

## Process

- To synchronize the available sources in the CMS Sidebar, the list of cameras is requested through the API.
- Since a video stream cannot be requested directly from the camera, it is requested to the OnSSI OMS using the SOAP API.
- The OnSSI OMS generates a unicast video stream that is then decoded on the Barco controlled display.
- The video streams are compliant with **RTP**, **MPEG-4** and **H.264** standards.
- Cameras and encoders that are common between the OnSSI OMS and the Barco CMS Server interoperability matrixes are supported.

## Solution requirements

- OnSSI platform version 3.8 consisting of the following components (installed/licensed):
  - Ocularis Base
  - Ocularis Recording Component
  - Ocularis Media Server (OMS) – multiple servers are supported
  - Ocularis Admin Client
  - Ocularis Web Client
  - For OnSSI customers currently using previous versions of Ocularis, please contact OnSSI
- Barco TransForm N system (installed/licensed):
  - CMS Suite including MGS (Media Gateway Server)
  - CMS Server version 2.5
  - MGS version 1.2.4-5
  - For Barco customer currently using Apollo and/or Transform A, please contact Barco
- In general, widely available standard H.264 and in most cases MJPEG cameras and/or encoders are supported by both OnSSI and Barco. For confirmation on a particular brand and model number please contact Barco and OnSSI for their interoperability lists or forward plans.
- Please always contact Barco and OnSSI for needs analysis and documented quotations.

## Joint Customer Wins

- Macomb County Ops Center, MI, USA

## Request more information

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### About the Barco Strategic Alliances program

Great products need great focus. That is why Barco allies with other top players in their fields of expertise to build the best solutions available. By combining complementary strengths, we can optimize the integration of the systems and offer one single system

to the customer. This simplifies deployment, optimizes efficiency, minimizes reaction time, and reduces costs in a variety of selected professional markets. This creates a win/win situation for all parties involved, our customers in the first place.

More information? Please visit our dedicated webpage [www.barco.com/alliances](http://www.barco.com/alliances)