

OSIsoft and Barco

OSIsoft and Barco collaborate to optimize the Common Operational Picture (COP)

Barco and OSIsoft, leading global suppliers, respectively, in visualization for control rooms and enterprise-wide software for visibility into operational events and performance, have optimized and validated the Common Operational Picture (COP) on large video walls.

OSIsoft

OSIsoft (www.osisoft.com) delivers the **PI System™**, the global industry leading software for management of real-time data and events. OSIsoft's global installed base relies upon the PI System to safeguard data and deliver **enterprise-wide visibility into operational, manufacturing and business data**. The PI System is used in manufacturing, energy, utilities, life sciences, data centers, facilities, and the process industries. **PI Coresight™** is web-based software that delivers fast, easy and secure access to data from multiple PI System servers and has **dashboard-building capability for visualization**.



Barco

Barco provides flexible and **mission critical visualization** products and software consisting of high-quality displays, rear-projection and nearseamless LCD **video walls**, graphic 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. A Barco video wall provides a single large pixel-space, and thus the ability to **visually collaborate around a Common Operational Picture (COP)** that focuses the entire operational team around KPI's and events, for faster decision making.

General Concept

Barco and OSIsoft have validated and optimized the use of the cloud-based **PI Coresight dashboard builder** on an aggregated **single canvas video wall**, utilizing the total pixel-space available, including the use of the **integrated Esri® mapping view**, providing a single **Common Operational Picture for a team of operators**. This validated joint solution is an answer to the need for **better presentation of KPI's and events to decision makers**.

Benefits

- **Better Views**
 - Use the large pixel-space of the video wall (more pixels, large display) as a single desktop with **more information** - Truly appreciate the value of **space and time coming together** on a large video wall with the merging of operational data management and GIS.
- **Share Faster**
 - The Common Operational Picture on the video wall based on space, time and selected PI Coresight dashboard information, **keeps the operational team focused and informed at all times** (versus the personal desktop workspace of a single operator).
- **Resolve Quicker**
 - Be able to **make decisions faster** based on the availability of the right presentation layer through the video wall Common Operational Picture.

Validated Solution

The infrastructure requirements for the above described benefits are provided later in this document. Conceptually though the following is required:

- Barco video wall – as shown in the pictures in this document – is a 3-wide, 2-high OL721 HD video wall, representing a total pixel-space of 12.4MP
<http://www.barco.com/en/products-solutions/video-walls/rear-projection-video-walls>
- Barco controller – for example the Transform N Multimedia Terminal – which allows users to create a single desktop for the entire video wall using all pixels natively
<http://www.barco.com/en/products-solutions/video-walls/video-wall-controllers/network-centric-multi-screen-video-wall-controllers/output-nodes/easy-to-use-3rd-generation-compact-hybridvideo-wall-controller.aspx>
- OSIssoft PI Coresight, a web-based application
<http://www.picoresight.osissoft.com>
- Esri ArcGIS® integrated with OSIssoft, as announced by OSIssoft
<http://www.osissoft.com/templates/overview-2.aspx?id=9553>

There is not a single piece of software from OSIssoft that needs to be installed either on the Barco controller or on an additional server; all information being viewed is web enabled.



Fig 1

Esri ArcGIS and OSIssoft integration on 12.4MP video wall of 4.65m or 15 ¼ ft. wide by 1.75m or 5 ¾ ft. high

A great way to appreciate the value of a single large pixel-space, as represented by the large video wall, is to maximize the view of the Esri ArcGIS map with OSIssoft integration, spanning the entire wall.

The Esri ArcGIS map recognizes the total pixel-space and as such is able to show more content allowing a team of operators to see an entire region of responsibility versus, for example, a limited region in their personal workspace on their desktop monitor. The bottom time range of graphs can be manually adapted as might be feasible for the team. Thanks to the combination of space and time on this large visualization tool, the right **overview presentation layer** is available for the entire team.

Now PI Coresight can also be introduced to provide further operational data which is again relevant to the team as key KPI's can be tracked.

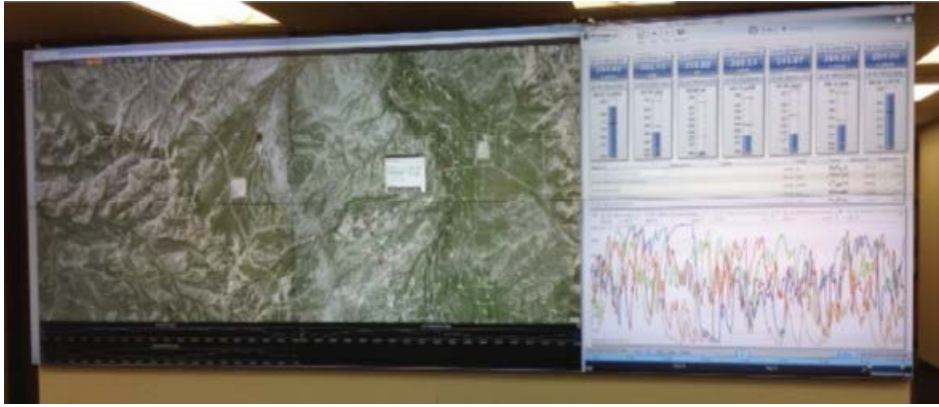


Fig 2
Common Operational Picture

The video wall represents a single desktop – any application i.e. the Esri ArcGIS map or the PI Coresight webpage can be repositioned in any size anywhere on the entire wall.

To optimize viewing on the video wall (versus operator positioning), one can manually adjust the zoom settings in the web browser. The objects in PI Coresight scale as well.

Other content can be flexibly added to the video wall, for example cameras, radar feeds, etc.

As such, the relevant **Common Operational Picture** has been built for the team, as a visual collaboration complement to the personal workspace of each individual operator.

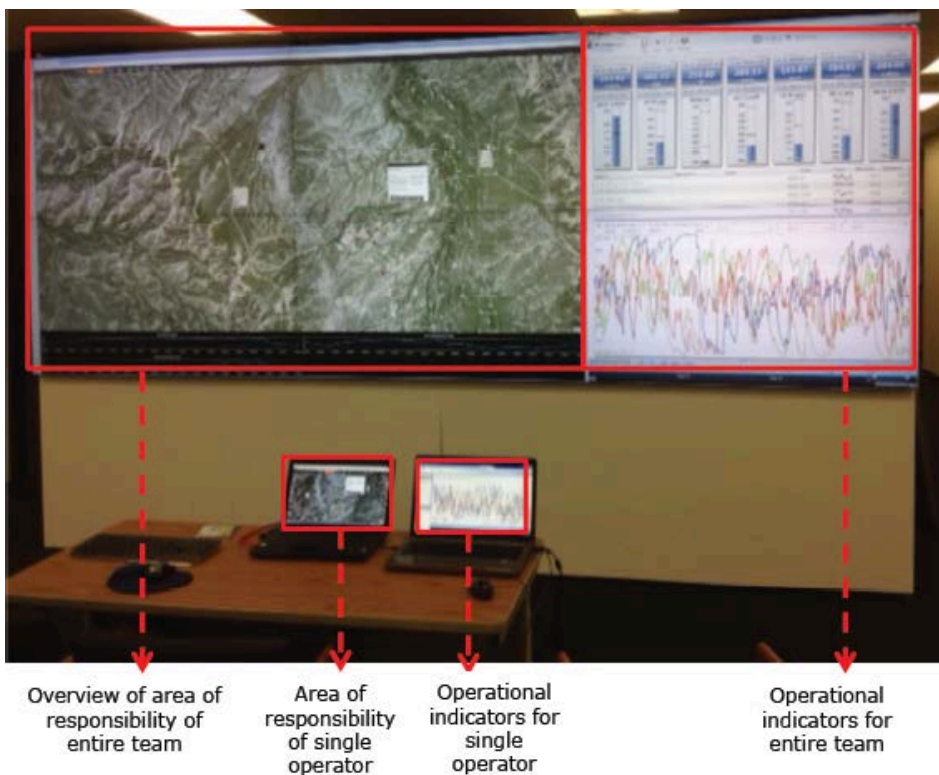
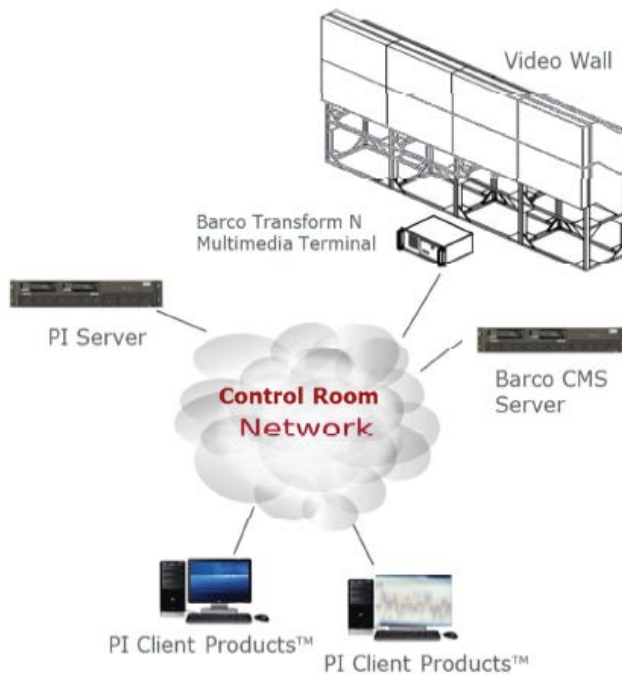


Fig 3
Typical use case of video wall Common Operational Picture

Architecture



Solution requirements

- Any standard released Barco video wall
- Barco Transform N Multimedia Terminal hardware – generation 2 or above
 - Barco CMS 3.0
 - Windows® 7; Internet Explorer® 9 or higher; Microsoft® Silverlight®
- For Barco customers currently using Apollo and/or Transform A, please contact Barco for migration options
- PI Coresight to be accessed through web-browser
- *Note: for OS/soft – Esri items please contact OS/soft*
- *Note: for Barco CMS-based interactivity across displays please contact Barco*

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