Aetria Use-Case Example – Oil & Gas

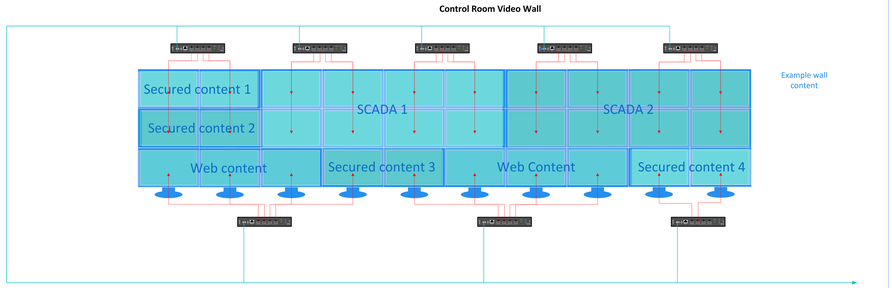
Main Control Room Floor

The central video wall is a 30 screen, perfectly synchronized large display surface spanning the width of the entire control room, with fully flexible windowing of sources which can be shown anywhere on the surface and replicated multiple times on opposite ends of the wall if desired.

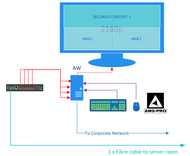
Any type of content can be shown to all of the control room team as required which could be any combination of live CCTV cameras from around the facility with operator defined identification overlays, process control information coming from dedicated servers, web content showing outside information as well as stored video content for playback of historical scenarios.

Content can be quickly updated on the wall for suitable viewing in any way the supervisor chooses at the simple click of a button, and any single piece of content can go from thumbnail size all the way to filling up the entire wall with exceptional clarity, latency and video quality.

The VSN wall controller is located in a rack placed in the server room and drives the main control room wall as well as two additional 2x2 walls which mainly show CCTV content on the operator's console.
Each of the VSN outputs are connected to Aligo Transmitters, which are used for extending these video signals from the server room using the dedicated 10G network. On the main room's end, the screens are connected to Aligo Receivers, which on standard mode will show the content coming from the VSN, but they could also deliver content straight away from the sources if needed in case of contingency



Crisis Room



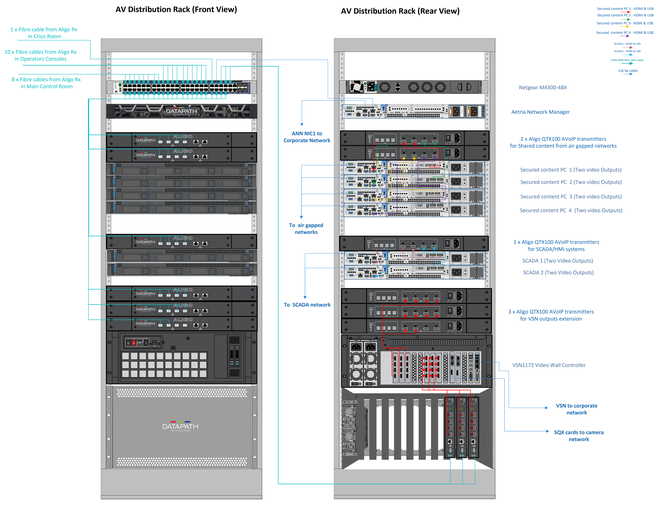
The Crisis room is mostly used for passive monitoring of what's going on in the facility, and is an area for quiet and considered discussion amongst colleagues in a quiet office style environment which is away from all the live action occurring down in the main control room.

In this space VIP's, supervisors or facility specialists can congregate to discuss events and have remote monitoring access to all of the live control room sources, or any of the on premise CCTV camera feeds instantly.

This position is managed by a dedicated Aetria Workstation which enables clients with sufficient access rights can login to the remote servers directly from within the crisis room and take over any of the real time critical control applications which are operating all of the back end facility systems if they need to, either relinquishing control from the operators or collaborating with them in real time.

Operator Consoles

Operators can access any of the remote servers connected to air gapped networks and the SCADA system, either for viewing only, or for KVM control. They can manage and control these sources along with local content available on their workstations or the corporate network, all handled and displayed on a multi window and dynamic environment.

Operators can view the same sources in parallel as well as sharing any sources with the video wall in any order, at any size. They can save their viewing preferences on layouts and templates which are easily recalled at any time.

Server Room