Capability Summary – Command & Control

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Purpose of this document

The purpose of this document is to give an overview of Critical Room Solution’s expertise in Technical Room design and development with specific focus on the design, construction and configuration of technical rooms.

About Critical Room Solutions

Critical Room Solutions (CRS) is a 100% Australian owned and operated company with over 25 years’ experience in design and realization of Turnkey Technical Rooms throughout Australia. We specialize in the creation of exceptional 24/7 Command and Control Rooms (CCR), Remote Operation Centre (ROC), and Incident Control environments.

If required, we also incorporate all aspects of videoconferencing and audiovisual solutions to associated rooms such as meeting rooms, training rooms, boardrooms and reception areas to deliver a one-stop-shop for our customers.

With 1800sqm facilities in Perth and Adelaide, our services are provided throughout Australia, Asia and New Zealand.

Initially we take a consultative approach to our solutions and make it our aim to fully understand workflow requirements and considerations at every level of the project. From our customers’ management goals through to operator considerations, our approach is to work collaboratively as a team establishing the best strategy to meet requirements.

Critical Room Solutions enables the creative use of space and technology
The TurnKeySolution Methodology

Critical Room Solutions (CRS) incorporates all aspects of Command and Control Room Design, Advanced Collaboration and 2D and 3D Visualization. CRS creates an integrated working environment, where complex technologies and people come together.

CRS provides both consulting/advisory services as well as being able to deliver the actual control room. This creates a better understanding of the project as a whole, and allows us to offer more comprehensive service, from start to finish.

A typical TurnKeySolution (TKS) project considers the requirement for Lite and high-end operator consoles and AV/IT components, along with all aspects off the working environment, such as Access Flooring, Cabling, Lighting, HVAC, Acoustics and Lifestyle considerations.

CRS interfaces seamlessly with SCADA, PLC and security systems providers. CRS’s commitment and dedication enables effective delivery of a TKS for your new or upgrade Control Room projects, including:

- Consultation and Conceptualisation
- Realisation & Delivery
- Through life support

www.controlroomsolutions.com.au
Space Design and Optimisation

CADwalk™ is our revolutionary 1:1 scale, collaborative design environment.

Using CADwalk™, life size CAD plans are projected onto the floor, with rendered representations on the wall. Each item in the room is able to be moved via motion tracking cameras, giving a truly interactive design experience for groups of operators, architects, engineers, and so forth.

The issues CADwalk™ addresses include

- Interactive visual design process for those with no experience in understanding CAD data
- Capture designs and ability to step ‘back’ and ‘forward’ through decisions
- Validation of design to management and key stakeholders

This world’s first technology can be used for space optimisation for new and upgrade projects, as well as growth/expansion planning as well as work flows.

CADwalk™ has already been used for many projects, and the indication is that this saves up to three months of design time (+ many emails). This is because all stakeholders are involved, which creates greater ownership of the outcomes, as there is an engagement with the decisions being made.

[www.cadwalk.global](http://www.cadwalk.global)

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1 Patent No.: 2012902045

Testimonials

“Using Adelaide-based CADwalk allowed two Transpower’s system co-ordinators to evaluate the proposed shape and form of the proposed consoles and the way they would fit in the room footprints available. This enabled the shapes and curves of the consoles to be exactly what was required with the added bonus of being able to ‘try out’ the floor layout in a full size simulation. The console layout relative to each other could be determined exactly, with the CADwalk experience enabling variations of shape and location to be tested almost in real time.

The end result has been near perfect. The consoles have proven to be everything Transpower wanted and expected and the assurance provided by the CAD walk experience was a big benefit when it came time to sign the supply contract.

The complete design, supply, install and service arrangements were first class and everything promised was delivered, with great attention to detail and first rate customer service.

A year on and we are just as happy as the day we took operational control. That is, very happy indeed! I have nothing to report except that our expectations have been more than met and I can recommend the whole experience (purchase, delivery and install and operation) to any potential users.”

Dan Twigg, Systems Operation Manager, Transpower.

“Never before have we been able to walk around the proposed layout, change the orientation and ‘try’ various console layouts in the CADwalk environment. It was a unique and enlightening experience that existing staff were able to try and then ensure it would work before any fit out started.

CRS were able to size the room, constraints and fixtures and “fit” the three consoles within the room, plus making the room feel larger than it actually was. Recommendations for wall coverings to reduce noise levels were also incorporated into the design.

Unison has no hesitation in recommending other electrical distributors to CRS as our experience has been rewarding. Other companies have made visits to our redeveloped control room and were impressed with the layout and control consoles. We definitely would use their services again.”

Nigel Brown, Operations Manager, Unison Networks
Command and Control Room Solutions

- TKS - Command and Control Rooms
- TKS - Remote Operation Centres (ROC)
- TKS - Incident Management Environments

There are many elements to consider during control room design and development. Correct integration of these elements with legacy or new systems will make the control room work effectively and reliably, while providing a productive and pleasant working environment for years to come.

**Work Flow Analysis**
- Stakeholder engagement
- Operator interviews
- Existing procedure analysis

**Operator Comfort**
- Lighting
- Acoustics
- HVAC (Heating, Ventilation, Air Conditioning)

**Design**
- Layout
- Ergonomic factors
- Sight Lines

**After Sales Support**
- SLA’s
- Maintenance
- Legacy System support
- Training

[Image of a control room]
Support Facility Capabilities

Advanced Collaboration Rooms
Collaborative workspaces that incorporate video conferencing and real time data sharing

Breakout and Meeting Rooms
Simple or complex displays that can also incorporate collaboration room features
Some of our Customers

Rio Tinto

We provided a state-of-the-art turnkey visualisation and collaboration solution for Rio Tinto Perth. We are currently working with Rio Tinto on various research and development projects.

Santos

We have recently completed consulting work for Santos in relation to upgrading their Port Bonython control room. We are also working with them to create a series of collaboration rooms and a remote control room solution for their Queensland operations.

BHP Billiton

We have worked with BHP in Port Hedland providing custom operator consoles for their Rail and Port control rooms. This involved some of the largest consoles Evans have manufactured to date. We are now involved in providing further technology solutions for a visualisation feature.

Chevron

We have worked with Chevron on over 10 projects, from corporate boardrooms to visualisation and collaboration room solutions, most recently for the Gorgon project.
Why Critical Room Solutions?

You talk - we listen.

We believe in doing things once and doing them right

Over the last 25 years we have found that the most important thing we bring to a project is our ability to listen. We believe that by taking the time to fully understand all aspects of the project we put ourselves in the unique position of being able to provide the best outcome for every project stakeholder.

We welcome feedback, ideas or suggestions during the life of a project and encourage our customers’ to pick up the phone and call us. We are only too happy to work with you to provide the best solutions.