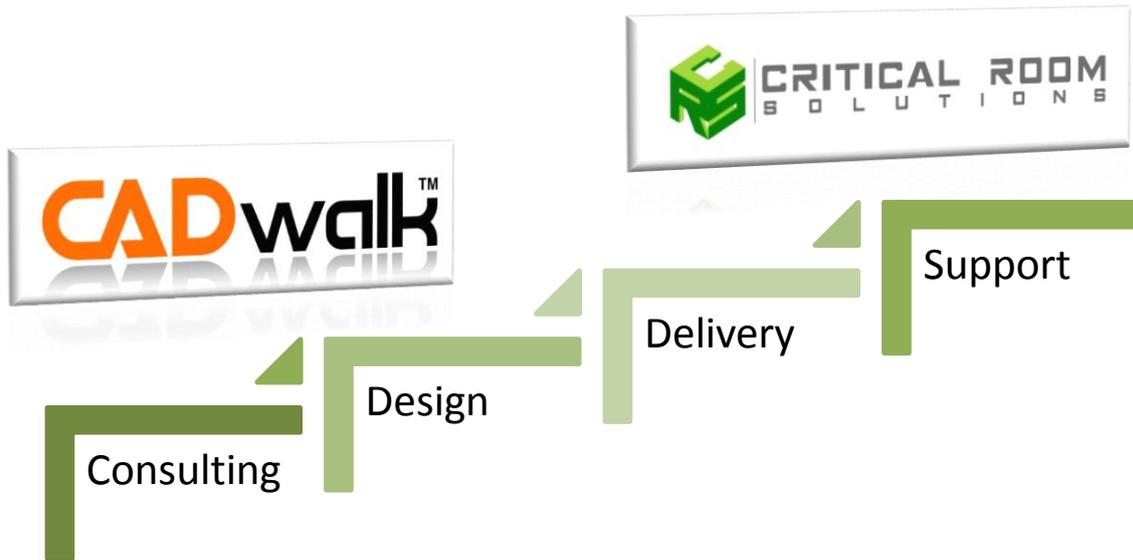




# The TurnKeySolution Methodology

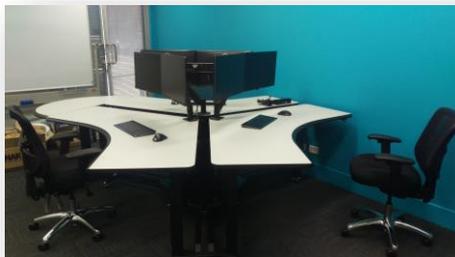


*We take the **risk and frustration** out of control room design and delivery by offering an **end-to-end solution***

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 of the working environment, such as Access Flooring, Cabling, Lighting, HVAC, Acoustics and Lifestyle considerations.



## Space Design and Optimisation



CADwalk™<sup>1</sup> 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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<sup>1</sup> Patent No.: 2012902045

# Testimonials

## **Trustpower**

“The service provided by CRS was professional, efficient and concise. Time was taken interacting with staff to understand our needs, requirements and limitations. In addition, design elements of the overall building were incorporated into the final CRS design. With regards to the install of equipment provided by CRS, their service was flexible enough to fit with the overall build programme and resolution of teething issue was good. Operations staff and Trustpower management are extremely pleased with the final product, with the working environment greatly improved.” - Peter Litchfield, Operations Engineer, Trustpower

## **Transpower**

“The consoles have proven to be everything Transpower wanted and expected and the assurance provided by the CADwalk 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.” – Dan Twigg, Systems Operation Manager

## **Unison**

“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. 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

## **Speedcast**

SpeedCast NOC Manager, Angus Downer, said “We gave the CRS team a challenge which I had thought near impossible; provide a new Network Operations Centre catering for over double the amount of staff, in the same amount of space, next to our loud Equipment room, all while delivering a work environment which promoted staff comfort, increased our proactive support and shined as a facility our stakeholders would be blown away with. CRS delivered on this.

The 3D CAD interactive walk through (CADwalk) and well thought out designs gave us confidence even before the project had started, the build was fast, and technology utilised very fit for purpose. We have seen an increase in positive customer feedback, a decrease in preventable Incidents and an overall improvement in staff engagement since commissioning the new NOC.

I look forward to working with CRS on future expansion projects.”

## **SEAGas**

Rod Hall, System Control Manager, contacted CRS as SEAGas were relocating their Control Room requiring new Operator desks and room design. Rod said “it took a few goes to find the right option and ended up working well, flexible arrangements, good quality. Yes, would engage for this type of work again, happy with the process and result”.

# 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

# Support Facility Capabilities

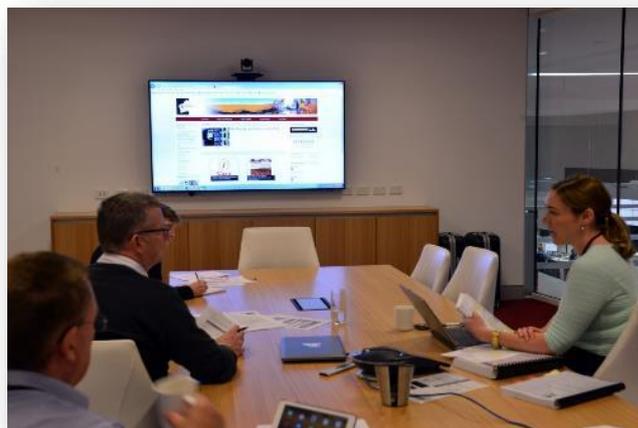
## Advanced Collaboration Rooms

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



## Visualisation Rooms – 2D/3D

Simple or complex displays that can also incorporate collaboration room features



# Video Walls

Premium displays and video wall management for mission critical 24/7 control rooms, with custom engineered support structures

## Perth Airport DACC



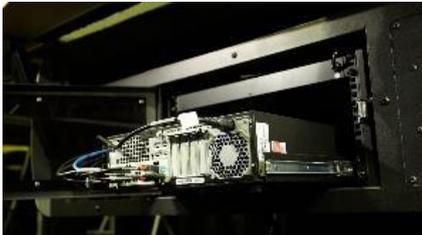
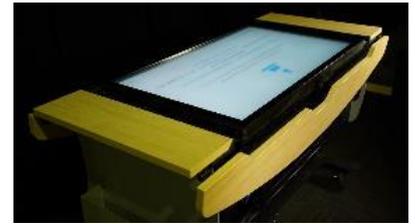
## Roy Hill Remote Operations Centre



## Roy Hill Gorge Wall



## eDesk



### Custom made electronic tables

- **A0 paper size to replace paper plans**
- **Multi-touch for whiteboard use**
- **Motorised height and tilt adjustment**
- **Mobile and easily reconfigurable**

## In-house Design and Manufacturing Capability

CRS is equipped to manage delivery of a complete turnkey solution. In-house expertise in design and manufacturing capabilities ensure a specific solution can be tailored to the individual customer's requirements.

Each of CRS's premises is equipped with manufacturing and production facilities. This feature ensures CRS can address unique or once-off requirements as often may arise during complex projects.

CRS can custom manufacture a range of solutions, including:

- Custom racks
- Prefabricated screen structures
- Custom projector mounts
- Height adjustable furniture and lecterns

CRS continually researches and sources the latest materials to ensure modern and décor-tailored designs are delivered. CRS will work with your facilities management to address any corporate colours or schemes.

CRS understands that no two projects are the same, with each requiring informed equipment selection and system design. CRS applies 27 years of experience and knowledge at the forefront of emerging AV technology to achieve flawless system integration. Ensuring every event, presentation and interaction is seamless and successful.

Customers



## Why Critical Room Solutions?



### **You talk - we listen.**

#### **We believe in doing things once and doing them right**

Over the last 27 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.