



**MASL**  
WORLD

# CASESTUDY



**Revolutionizing Defence  
Communication:  
MASL's Cutting-Edge War  
Room Solution for Enhanced  
Operational Excellence**





## THE CLIENT

In a significant initiative, the Defence Project aimed to establish War Rooms/Board Rooms in 25 locations across India to enhance communication and decision-making among Defence personnel. Facing the challenge of ensuring secure and immersive conferencing solutions, the Defence Project sought a technology partner with expertise in delivering advanced IT solutions.





## THE CHALLENGE

### **Securing Confidential Communications:**

Establishing secure and encrypted communication channels across 25 locations posed a significant challenge. The Defence Project required a solution that could safeguard confidential discussions and sensitive data transfers.

### **Acquiring Cutting-edge Technology:**

Sourcing state-of-the-art High Definition war room equipment with spatial audio and interactive elements was a complex task. The challenge lay in identifying and procuring technology that could replicate an immersive in-person meeting experience.

### **Configuring Diverse War Room Types:**

Setting up two types of War Rooms, accommodating both 18-seater and 6-seater configurations, added complexity. Adapting technology deployment and spatial design to meet the varying participation sizes at each location presented a unique challenge.





### **Ensuring Natural Interaction:**

Creating an environment for natural and effective communication was a hurdle. Achieving eye-to-eye contact, life-size images, and clear audio without latency or interference demanded specialized solutions to replicate face-to-face interactions.

### **Balancing Security and Efficiency:**

The Defence Project required a solution that not only facilitated efficient communication but also prioritized security. The challenge was to implement encryption measures for both video and call signaling, ensuring the protection of sensitive discussions.

Navigating these challenges required a strategic and specialized approach, leading the Defence authorities to seek a technology partner with the expertise to overcome these intricate obstacles.

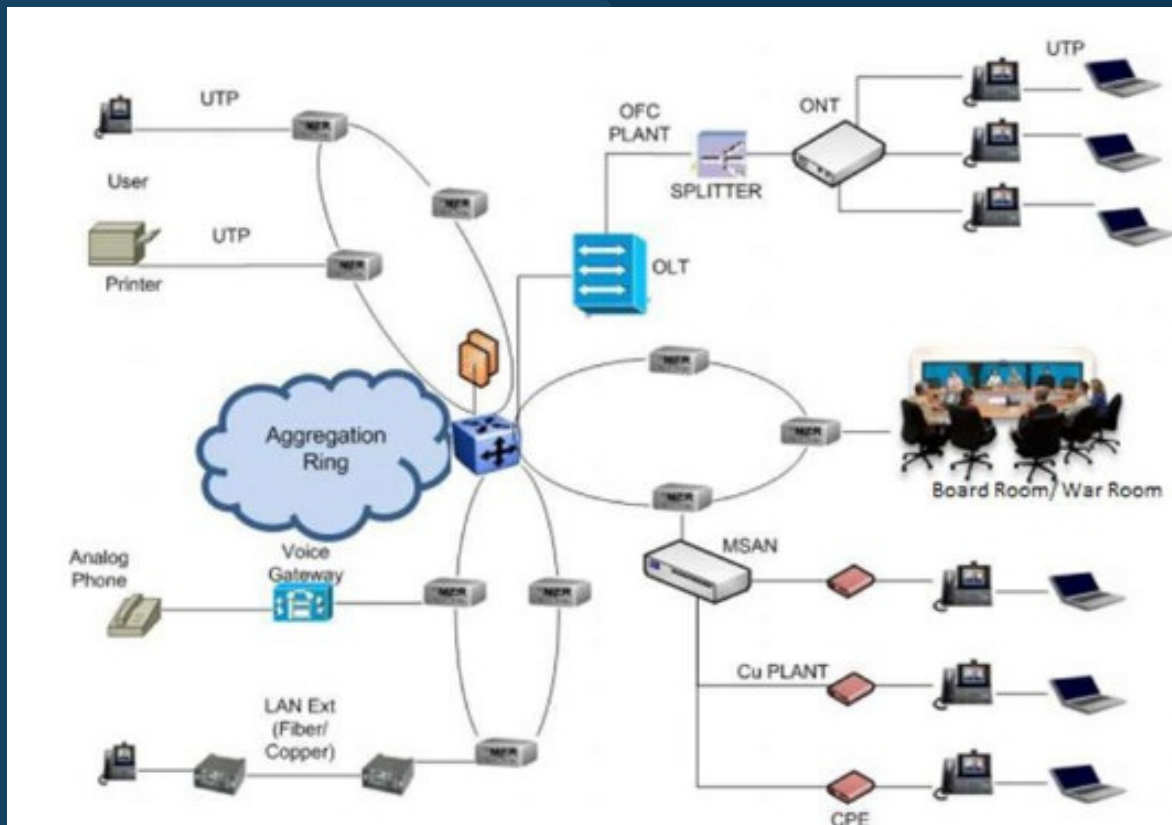




## THE SEARCH

The Defence Authorities sought a technology partner with expertise in delivering cutting-edge conferencing solutions. A meticulous selection process led to the choice of Millennium Automation Systems Ltd. (MASL) for its proficiency in addressing complex technological requirements.





## SCOPE OF WORK

### Establishment of Immersive War Rooms:

- Design, establish, and implement fully-equipped War Rooms in 25 strategic locations across India.
- Deployment of life-size, ultra-high-definition video systems, spatial audio, and interactive elements to create an immersive conferencing experience.

### Configuration of Two War Room Types:

- Set up 18-seater Board Rooms and 6-seater Board Rooms at designated locations, accommodating varying participation sizes.
- Customization of technology deployment, spatial design, and seating arrangements to match the specific requirements of each War Room type.





## **Integration of High-Tech Components:**

- Procurement and installation of cutting-edge components, including HD video display units, presentation monitors, and wired/wireless microphones.
- Implementation of a Multi Control Unit (MCU) with a minimum of 108 ports for seamless video conferencing at 1080p and 216 at 720p.

## **Secure Communication Infrastructure:**

- Development and deployment of a robust Gatekeeper and Call Management, Control, Routing System to ensure secure and efficient communication.
- Integration of encryption measures for both video and call signaling, ensuring the confidentiality of discussions.

## **Comprehensive Network Infrastructure:**

- Installation of switches, ensuring a resilient and multiservice technology infrastructure for traffic engineered service assurance.
- Wired and wireless mic setups for end points, providing flexibility and convenience during discussions.





## **War Room System Operation and Maintenance:**

- Implementation of a comprehensive Network Management System (NMS) with a Management Server for efficient monitoring and maintenance.
- Provision of a complete system for recording and content streaming, including necessary hardware and software components.

## **Training and Support Services:**

- Conducting extensive training sessions for end users, ensuring proficiency in operating all components and systems.
- Providing 10 years of continuous support for all items, sub-systems, and services, ensuring the sustained efficiency and functionality of the War Rooms.







## **THE SOLUTION**

### **Cutting-Edge Technology Integration:**

- Implementation of advanced IT infrastructure and technology, incorporating cutting-edge solutions for a robust War Room environment.
- Utilization of multiservice technology to ensure high resilience and traffic-engineered service assurance.

### **Next-Generation Converged Network:**

- Establishment of a state-of-the-art Next-Generation Internet Protocol-based Converged Network, supporting a range of critical services such as Triple Play Services, Telemedicine, and Distant Learning.
- Bandwidth guaranteed behavior for mission-critical, delay-sensitive, and bandwidth-intensive applications.





## **Immersive War Room Experience:**

- Design and deployment of immersive War Room/Board Room solutions with life-size, ultra-high-definition video, spatial audio, and interactive elements.
- Creation of an environment that provides an "in-person" feel, fostering natural and effective communication.

## **Dual-Type War Room Configuration:**

- Establishment of two types of War Rooms – 18-seater Board Rooms and 6-seater Board Rooms, each tailored to accommodate specific user requirements.
- Configuration of systems with industry-leading 1080p high-definition video resolution at 30 frames per second.

## **Interactive Virtual Table:**

- Implementation of a virtual table for interactive meetings, supporting a minimum of 18 participants in point-to-point sessions and 450 participants in multipoint sessions.
- Seamless collaboration features for diverse meeting types and high-definition broadcasting.

## **Secure Communication Infrastructure:**

- Integration of robust encryption measures to ensure secure video and call signaling, safeguarding sensitive discussions.
- Inclusion of integrated common enterprise calendaring programs for easy and secure call initiation.



**Comprehensive War Room Deliverables:**

- Deployment of immersive conferencing equipment, data walls, plasma screens, LCDs, and other audio-visual elements.
- Ergonomic furniture, integrated infrastructure, and aesthetically pleasing elements for a conducive War Room environment.

**Network Management and Support:**

- Implementation of a Network Management System (NMS) with a Management Server for real-time monitoring and efficient management.
- Extensive support and training programs for all components and sub-systems, ensuring optimal functionality over 10 years.

This visionary solution not only addressed the immediate requirements of the War Room project but also laid the foundation for a secure, technologically advanced, and collaborative environment that aligns with the evolving needs of the Defense Network.



## THE OUTCOME



### **Enhanced Operational Efficiency:**

- Significant improvement in operational efficiency achieved through the deployment of immersive War Room solutions.
- Streamlined communication and collaboration processes, reducing delays in decision-making.

### **Immersive Communication Experience:**

- Successful creation of an immersive communication experience, fostering real-time, face-to-face interactions among participants.
- Life-size images and high-definition video resolution contribute to a more engaging and impactful communication environment.

### **Secure and Confidential Discussions:**

- Assurance of secure and confidential discussions with the implementation of robust encryption measures for both video and call signaling.
- High-quality audio delivery with echo cancellation ensures clear and private communication.





## **Flexible and Scalable Collaboration:**

- Flexible design options cater to the diverse requirements of customers, offering scalability in terms of room technology, components, and services.
- Multi-codec meeting rooms and easy call scheduling provide a versatile collaboration platform for various meeting types.

## **Efficient Data Sharing and Management:**

- Improved data-sharing experience with full-duplex, CD-quality audio, and integrated common enterprise calendaring programs.
- Efficient data management through recording and content streaming systems, enhancing the overall collaborative environment.

## **User Satisfaction and Adoption:**

- Positive feedback from users, expressing satisfaction with the immersive War Room experience.
- Increased adoption rates, reflecting the system's ease of use, reliability, and contribution to effective communication.

## **Strategic Decision Support:**

- The War Room serves as a strategic decision-support tool, facilitating critical discussions on operational and administrative issues.
- Real-time collaboration enables swift decision-making, contributing to the success of mission-critical tasks.





## **Long-Term Cost Savings:**

- Realization of long-term cost savings through a comprehensive 10-year support plan, ensuring the sustained functionality of all components.
- Reduced downtime and maintenance costs, contributing to a more cost-effective and sustainable solution.

## **Technology Leadership and Replication:**

- Establishment of a technology leadership position, showcasing MASL's proficiency in delivering advanced IT solutions for high-stakes environments. Potential for
- replication of the successful War Room model in other defense and strategic communication initiatives.

## **Optimized Infrastructure Utilization:**

- Optimization of infrastructure utilization with a dual-type War Room configuration, catering to varying participant requirements.
- Efficient use of resources, ensuring that each War Room type meets its intended purpose effectively.



## THE IMPACT



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**MASL's unwavering commitment to **excellence** is vividly demonstrated through the outcomes, underscoring the transformative impact of **MASL's** solution on the Defense Project, aligning with the highest standards of **communication, security, and operational excellence.****





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**GET IN TOUCH !**



**+91 93112 40651**



**[www.maslworld.com](http://www.maslworld.com)**



**[info@maslworld.com](mailto:info@maslworld.com)**



**E 48/9, Okhla Phase-II  
New Delhi 110020**

