

ONUR Air Force

ONUR; had a long history and extensive experience in the integration and installation of communication and electronic systems, radars, air traffic control equipment, sensors and etc. ONUR undertook, completed and delivered multiple critical projects successfully to government organizations as a sub-contractor. In the course of time; ONUR developed her own in-house production capabilities, specialized in the design, manufacturing and the software development of complex communication systems, and became a main contractor for important projects.

ONUR has ability to realize projects for Turkish Air Navigation Service Provider (ANSP) General Directorate of State Airports Authority (DHMI), Turkish Air Forces Command, Turkish Naval Forces Command, Turkish Coast Guard Command, and Turkish Aerospace Industries (TAI) to provide indigenous communication systems.



ONUR areas of expertise can be summarized as follows:

IP Based Voice Communication Management and Recording Systems

- Voice Communication Solutions for Air Traffic Management
- Voice Communication Solutions for UAV Applications
- Train Control and Management Systems (TCMS) Communication Solutions
- Integrated Communications Systems for Military Platforms (Ship/Vehicle)
- Command and Control Centers Communications Solutions

Cyber Security Solutions

- Data Diode Solutions
- Secure Audio Adapter for RED/BLACK Voice Communications Systems

Network Enabled Communications Systems / IP MESH Solutions

- Tactical Mesh Networking System
- Wireless Communications Solutions
- Hybrid Network Design Solutions
- Software Based Modem Solutions

Mobile Air Traffic Control Tower Systems

OCS-NG4000 IP BASED VOICE COMMUNICATIONS SYSTEM (IP-VCS)



The OCS-NG4000 IP Based Voice Communications System (IP-VCS) is a flexible, reliable and effective solution for voice communications needs. It is a state-of-the-art technology with proven components and highly intuitive user interfaces. It meets both military and civil Air Traffic Management (ATM) voice communications needs.

The OCS-NG4000 system differs from other classic TDM based VCS products by having end to end IP implementation.

Based on voice over IP technology, it allows effective interconnection of multiple communication sources including legacy/IP HP/VHF/UHF radios, analog/IP telephones, intercom systems and legacy audio distribution systems. It allows the users to access all of the resources to enable reliable and secure Air to Ground (A/G) and Ground to Ground (G/G) communication.

OCS-NG4000 is a combination of subsystems, such as Controller Working Position-CWP, ONUR Radio Over IP Gateway (RIG-200), Time Server, ONUR Telephony Gateway (TGW-NG200), and Maintenance and Configuration Terminal.

The system is in use by Turkish Air Force and Turkish General Directorate of State Airports Authority, Turkish UAV Program and as a part of TCMS solution of Turkish Ministry of Transport and Infrastructure Railway Project MARMARAY.

- IN USE BY TURKISH AIR FORCE
- EXCLUSIVELY USED IN TURKISH UAV PROGRAMS
- WIDELY USED BY DHMI

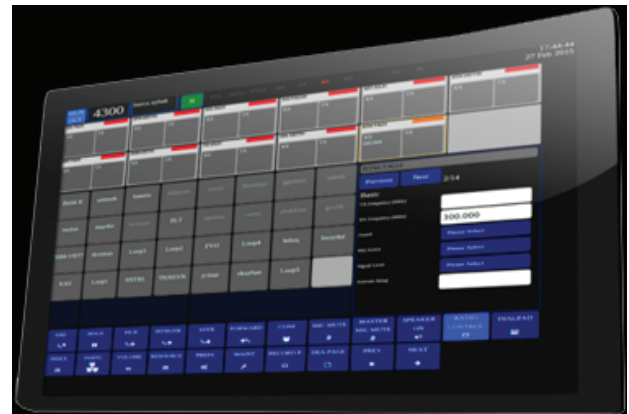
ORS-IP 2000

IP BASED VOICE and DATA RECORDING AND REPLAY SYSTEM (IP-VRS)

The ORS-IP2000 IP Based Voice and Data Recording and Replay System (IP-VRS) is a reliable, effective, fully redundant, high available and easily adaptable solution for all legal recording needs.

ORS-IP2000 is able to interface with common analog and digital audio interfaces. In addition to that system it supports recording of the ED 137B/C compliant voice streams. It can also be used in combination with the OCS-NG4000 IP Based Voice Communications System (IP-VCS).

The system can record and replay all voice communications, radar screens, radar exchange data such as Synthetic Radar Data (Asterix, AIRCAR 500, etc.), and Raw Radar Data (Raw Video). It is able to interface with 3rd party systems to record and replay industry standard VGA/DVI/HDMI screen captures. The system can also record information coming from legacy interfaces such as synchronous and asynchronous serial data.



OMT-M2000

MOBILE AIR TRAFFIC CONTROL TOWER SYSTEM

ONUR Mobile Air Traffic Control Tower System is fully equipped for autonomy and transportability, fully compliant with the required air traffic management and control standards for both civil and military applications.

The tower cabin has all essential communications sub-systems such as Voice Communications System, Digital Voice Recording and Replay System, Radios, Tower Information System, Uninterruptible Power Supply system and GPS Clock System, CCTV Surveillance Systems and serves with three operation consoles. All other meteorological, electrical and ancillary systems and tools can be integrated to the system. All equipment is compliant with ICAO (International Civil Aviation Organization) standards and will be provided with and IP Based Voice and Data Recording and Replay System.



- EQUIPPED WITH ONUR VCS/VRS SYSTEMS (EUROCAE ED 137 B)
- IMMEDIATE OPERATIONAL READINESS
- COMPLIANT WITH ICAS STANDARD
- IN USE BY TURKISH AIR FORCE
- VEHICLE/TRAILER MOUNTED

The tower cabin can be designed to support different working heights as per customer's requirements. The system is using a lifting mechanism that can be installed on an integrated trailer or can be used independently if the system is a truck-mounted. The system has a stand-by generator and other supply systems that allow self-sufficient continuous operation. The Mobile ATC Tower is designed to provide flexible and rapid operational air traffic control services complying with high performance requirements and can be transportable by air, sea, road and rail.