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# One comprehensive C3 solution

Optimized services, perfect safety and efficient operations



Trusted partner for your Digital Journey

# Atos





Energy, transportation, public safety and security organizations are all facing the challenge of managing their operational fleets with the highest level of security, reliability, and effectiveness, regardless of the network technology involved.

Wherever communications and the dispatching of personnel or machinery become mission-critical, control centers are a decisive tool for success. This applies especially to all public safety services as well as to the operation of industrial and transportation facilities, where optimized communications help enhance service quality, security and reliability. Practical examples can be found in the operation of onshore and offshore oil and gas facilities, utility companies, onshore and offshore wind farms, and large industrial complexes. Moreover, any transportation network requires similar command, control and communication services, as do harbors, airports and non-tactical military forces on peacekeeping missions. Communications between the control center and field staff must be dependable and always guarantee the required level of security and reliability.

“A modern control center has to make the dispatching process as efficient as possible, give the operator intuitive access to all necessary information and functionalities, and be easy to operate at the same time.”



# The question :

## One platform for all C3 needs ?

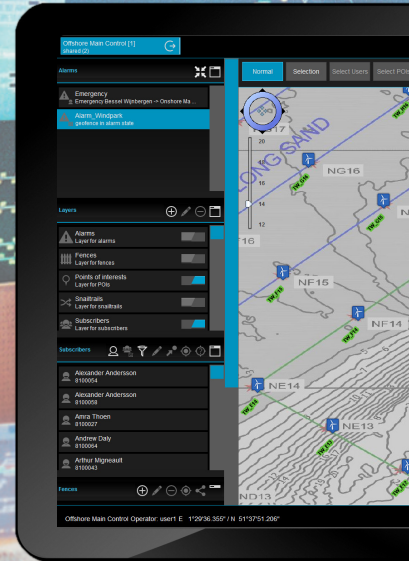
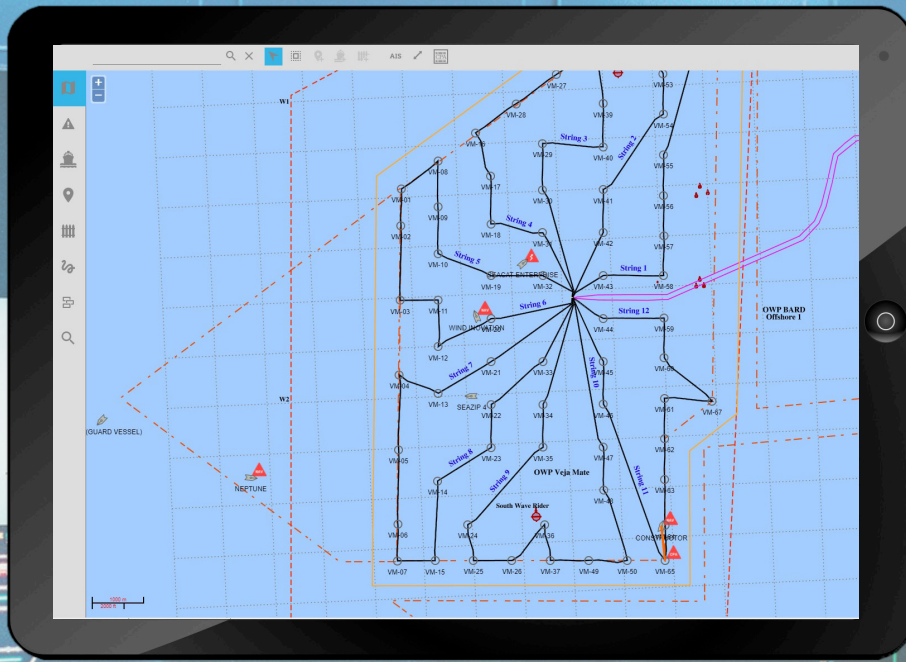
With a specific focus on communications, a control center can offer more than just safety and reliability. Obviously, such a system must be easy to use, despite the complexity of the task at hand. This requires an intuitive graphical user interface that provides operators with all key information at their fingertips - one that is clearly structured and uncluttered, with a graphical representation of ongoing events and each user's position and status.

This means including GIS (Geographical Information System) information and integrating an Automatic Vehicle / Person Location Service, interfacing them to the Network Management System and other external systems.

Where actual customers - and not just personnel - are involved, the ideal solution should provide interfaces to access enhanced subscriber-management functions, such as subscriber tagging for predefined scenarios and favorite definitions. Airport operators, for instance, can make valuable use of real-time information about passengers, airport staff and mobile equipment. Knowing the exact position of passengers inside the terminal enables the operator to send relevant information to their smartphones - for example, to guide them to the check-in counter or baggage claim. At the same time, having information about the locations of airport staff enables airport operators to enhance security, operate efficiently and reduce costs. Multi-monitor, touch-screen and enhanced drag-and-drop control capabilities would enable them to dispatch complex subscriber groups,

significantly increasing their productivity and effectiveness. What's more, this real-time information may be anonymized for statistical analysis at any time, helping to optimize services and passenger flow and preventing bottlenecks before they occur. To help the operator save investment costs, the new system should be able to integrate any legacy systems still in use and offer seamless interconnectivity to available broadband data systems. At best, the system should not use critical system resources by connecting via the air interface only. On the technical side, TETRA 1 data support would be indispensable for critical infrastructures. Terrestrial Trunked Radio (TETRA) sets up a safe, secure, and streamlined communication network in even the most extreme locations and consists of a variety of powerful applications for voice and data communications, as well as workflow and workforce management. TETRA allows for professional mobile communications even inside metal constructions such as wind towers, and enables operators to communicate with single users or specific user groups and to track their movements, so as to have full control over all activities.

“The ideal system would be easily customizable to meet the individual requirements of each operator perfectly, supporting user roles and client-server architecture, and allowing for data sharing between operators.”



# The answer : Atos' C3 the comprehensive solution

Atos' new Multi-Network command, control, communications solution is a unique, cost-efficient, and centralized solution that is aimed at a wide range of user segments and can be adapted to any network size. It offers all vital functions for efficient C3 operations and provides a significantly positive impact on both safety and productivity.

Atos sets a new standard for C3 solutions. The extremely versatile system provides a broad spectrum of unique features that have a significant and positive impact on both safety and productivity. Designed as a single, cost-effective and centralized C3 solution and deployed by an expert-level, field-proven company, the new system delivers all of the necessary functionalities for efficient C3 operations across a wide range of user segments and all sizes of operations.

A versatile suite like this opens up a number of new business opportunities for its customers and allows them to operate. It makes processes easier, enhances service opportunities and increases revenue. Communications at airports are vital, not only for passenger services and security, but also for operations. This is where Atos' C3 solution comes in, giving airport operators a major boost to ensure that aircraft turnaround times are minimized.

**The result: better use of existing equipment, increased capacity and, consequently, higher revenue.**

As an intelligent standard, the new C3 solution from Atos is also important where public safety is at risk. It enables system integrators to approach TETRA operators with a broadband offering and, at the same time, addresses the Greenfield Public Safety broadband market.





The system features a single, seamless interface to all communication systems with a solution from one experienced system developer. Thus, all information can be obtained from a single contact and problems can be solved quickly and cost-effectively. This means swiftly providing the optimum answer in critical situations.

This feature-rich and highly cost-effective solution delivers greater operational safety as well as increased productivity

## Multi-Network Dispatching System

provides each console with full access to all communication systems within the network. It is scalable and can be adapted to suit control environments of any size. It offers a simple yet powerful interface that focuses on delivering maximum functionality in the minimum time and is able to interconnect a number of different network technologies from legacy systems to LTE and Mission-Critical Push-to-Talk systems.

## Tracking System

is a fully integrated part of the C3 solution delivering a clutter-free situational overview to increase the overall awareness level. Calls to any of the resources displayed on the map screen can be initiated by simply touching it. It can track individuals, vehicles, vessels, helicopters and airplanes by integrating various technologies to locate information from those devices.

## Multi- Network Voice and Data Recorder

is a voice and data logging system that enhances the C3 Suite by recording the voice information and all associated positioning data of all voice communications in all systems integrated within the system, such as TETRA, VHF, GSM, or PSTN (public switched telephone network).





# Synergies driven by communications

The new C3 solution from Atos was designed to meet the most important demands of customers from many businesses and to offer a wide range of applications. Therefore, among the system's major features, interoperability between diverse communications networks and team management using bidirectional data and not just voice, rank highest.

Other capabilities include encryption for optimized security and the seamless integration of higher bandwidth systems (such as LTE), as well as full and centralized voice and data playback capability for post-event analysis.

**One (system) for all - advantages at a glance**

Atos' new C3 solution combines optimum function and investment safety. It interfaces not only to multiple communication systems (TETRA, GSMR, PSTN/PBX (E1, SIP-based, LTE)), but also to older analog legacy networks, as well as ancillary systems (E&M) still in use.

**“Atos’ C3 unleashes the full power of professional mobile radio (PMR) through a simple, user-friendly interface, and greatly increases efficiency across the industry via integration into resource management and tracking systems.”**

Regardless of which communication system is in the background, all operations can be controlled through a unified, graphical, user interface.

The built-in Tracking Application enhances situational awareness by integrating geofencing and alarming and the ability to import additional layered data from other sources, while it supports secured recording of all Multi-Network Dispatching voice and data communications, allowing direct replay by authorized operators.



## The Multi-Network Dispatching System

It enables all interfaced communication systems to be tied into a central call environment to ensure that all staff members are fully informed and engaged at all times.

Situational awareness is a major requirement for mission-critical communications. To act correctly, the dispatcher needs to know instantly what is happening where and when.

The built-in Multi-Network Dispatching System takes care of that in normal day-to-day business by delivering maximum functionality within minimum time through its intelligently configured user interface.

In critical emergency situations, this feature may even help save lives by making better and faster decisions.

The C3 Solution can also be seamlessly integrated with other higher bandwidth systems such as LTE using a dedicated Mission-Critical Push-to-Talk Server.

This opens up new possibilities for the operator to transmit and receive information that could enhance management of a critical scenario and provide decision makers with more real-time data. Finally, the platform can be further enriched with workflow management functions designed to enable automated task allocation and monitoring to a mobile workforce. It then greatly simplifies the operator's workload by assigning required work resources to specific roles.

## Tracking Application

It increases the overall awareness level by delivering a clutter-free situation overview of all personnel and assets within the network.

This enables the operator to initiate calls instantly to any of the resources displayed on the map by simply touching its graphic representation. The role-management advantages available with the Multi-Network voice client are fully present in the tracking client as well. This ensures seamless operation at each operator's console, allowing them to use any terminal within the system and to work with any specific operator role by using the relevant system elements (personnel, Point of Interest, geofences, etc.).

Operators can also call up historical data for where these resources have been previously, including their speed and direction of travel. The system can be enhanced with a unique "lone worker" function that displays the location of resources or staff even in remote or shielded steel structures.

Furthermore, the overview incorporates alarms from other systems such as Network Management Systems to create a unique synergy: seeing the location of a developing problem as well as the resources located closest to it.

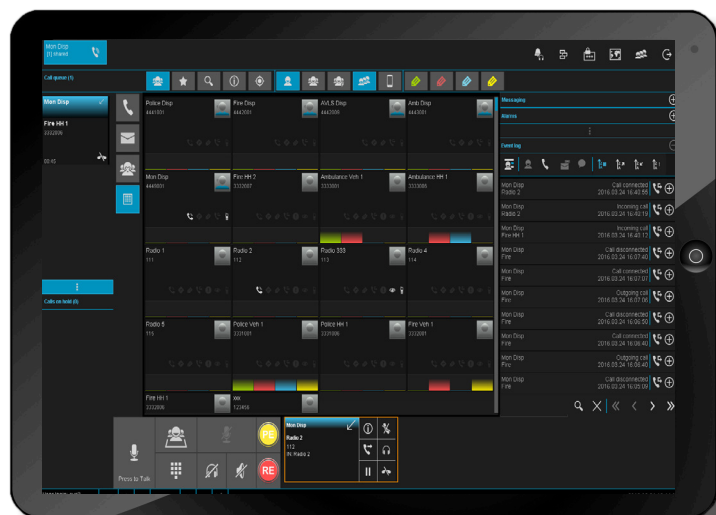
## Multi-Network Voice and Data Recorder

It greatly enhances the security of the overall system.

Recorded voice information and data logging from various systems may serve as evidence to clarify a situation for operators or personnel in the case of an accident.

On this device, all voice information from all users in the network can be recorded together with all related positioning information, as long as the underlying technology provides such data. For better usability, the Multi-Network Voice and Data recorder can record and replay unencrypted as well as encrypted (E2EE) information for TETRA.

“The Atos C3 solution with its unique level of integration and intuitive user interface helps operators to increase their productivity, while minimizing response times.”





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# About Atos

Atos is a global leader in digital transformation with approximately 100,000 employees in 73 countries and annual revenue of around € 13 billion. European number one in Big Data, Cybersecurity, High Performance Computing and Digital Workplace, the Group provides Cloud services, Infrastructure & Data Management, Business & Platform solutions, as well as transactional services through Worldline, the European leader in the payment industry. With its cutting-edge technologies, digital expertise and industry knowledge, Atos supports the digital transformation of its clients across various business sectors: Defense, Financial Services, Health, Manufacturing, Media, Energy & Utilities, Public sector, Retail, Telecommunications and Transportation. The Group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos Consulting, Atos Worldgrid, Bull, Canopy, Unify and Worldline. Atos SE (Societas Europaea) is listed on the CAC40 Paris stock index.

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Let's start a discussion together



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