

SkyOptima | ATM

DEVELOPED BY CS SOFT



Technical Information

SkyOptima | ATM is a modular Air Traffic Management platform for ACC, APP, and TWR operations. Built on more than 35 years of ATM expertise, it supports resilient, scalable, and future-ready air traffic operations for civil and military environments.

Its service-oriented architecture enables main and backup / contingency deployments, flexible integration, and progressive ATM modernisation across a wide range of operational settings. Built on widely adopted technologies, the platform also supports vendor independence, long-term sustainability, and easier system evolution.



System Characteristics

- Modular and scalable architecture
- Main and backup / contingency deployment support
- Cloud, on-premises, and hybrid infrastructure support
- Built-in cybersecurity and system observability

SkyOptima | ATM is designed for efficient deployment using commercial off-the-shelf hardware, helping reduce integration complexity, accelerate implementation, and support predictable lifecycle costs.

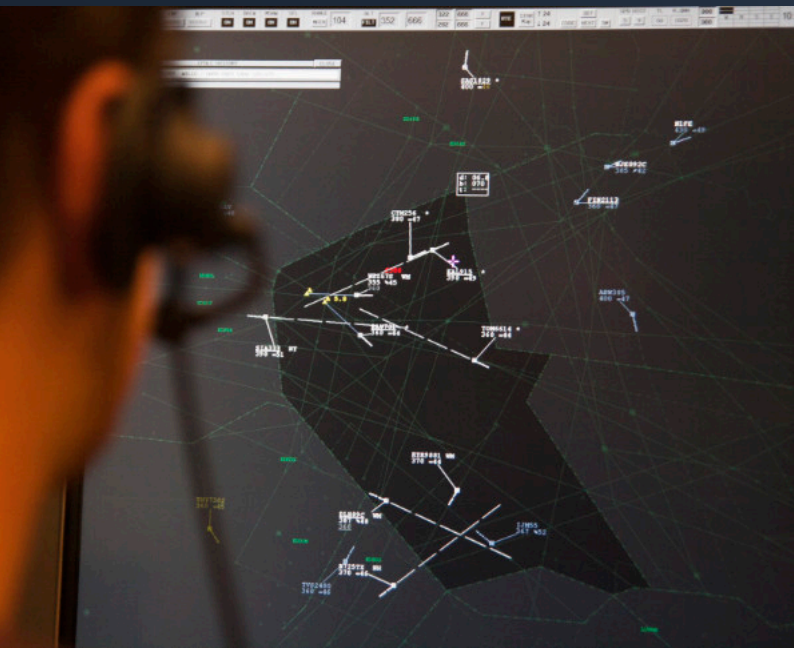
CS SOFT develops certified ATM systems and simulators for civil and military users worldwide. Active in ATM since 1988 and as part of CSG, the company combines long-term engineering experience with complementary capabilities in radars, sensors, UTM, and Digital Remote Tower technologies.

SkyOptima | ATM

SkyOptima | ATM supports ATM modernisation through standardized interfaces, flexible deployment models, and future-oriented interoperability. The platform is aligned with the European ATM Master Plan and supports SWIM-ready architecture, Common Project (CP1) alignment, readiness for Common Project 2 (CP2), and future-oriented interoperability concepts including FF-ICE.

Tech Specifications

- Multi-position support — TWR, APP, ACC
- Civil and military ATM applications
- Surveillance data processing, multi-sensor fusion, and tracking
- Flight data processing and correlation
- Controller working positions with advanced HMI
- Inter-centre and cross-border coordination support
- Civil-military coordination functions
- Traffic flow management support
- Integrated safety nets and decision support tools
- Recording, replay, and post-operational analysis
- Standardized interfaces for external systems
- Bare metal, cloud, and hybrid deployment options



- Support for virtualised and containerised environments
- Commercial off-the-shelf hardware compatibility
- Secure communication, logging, auditing, and monitoring
- Real-time system observability and performance tracking
- Embedded ATC simulation environment
- Operational HMI replication for training and validation
- Scenario-based simulation support, including abnormal and crisis situations
- Alignment with ICAO and EUROCONTROL requirements
- European ATM Master Plan alignment
- Common Project (CP1) alignment and readiness for Common Project 2 (CP2)
- SWIM-ready architecture
- Support for future-oriented interoperability concepts, including FF-ICE

CS SOFT develops certified ATM systems for ACC, APP, and TWR operations, with main and backup systems deployed worldwide. Our main references span the Czech Republic, Lithuania, Israel, Uganda, Bangladesh, and Indonesia, demonstrating proven operational experience across domestic and international ATM environments

