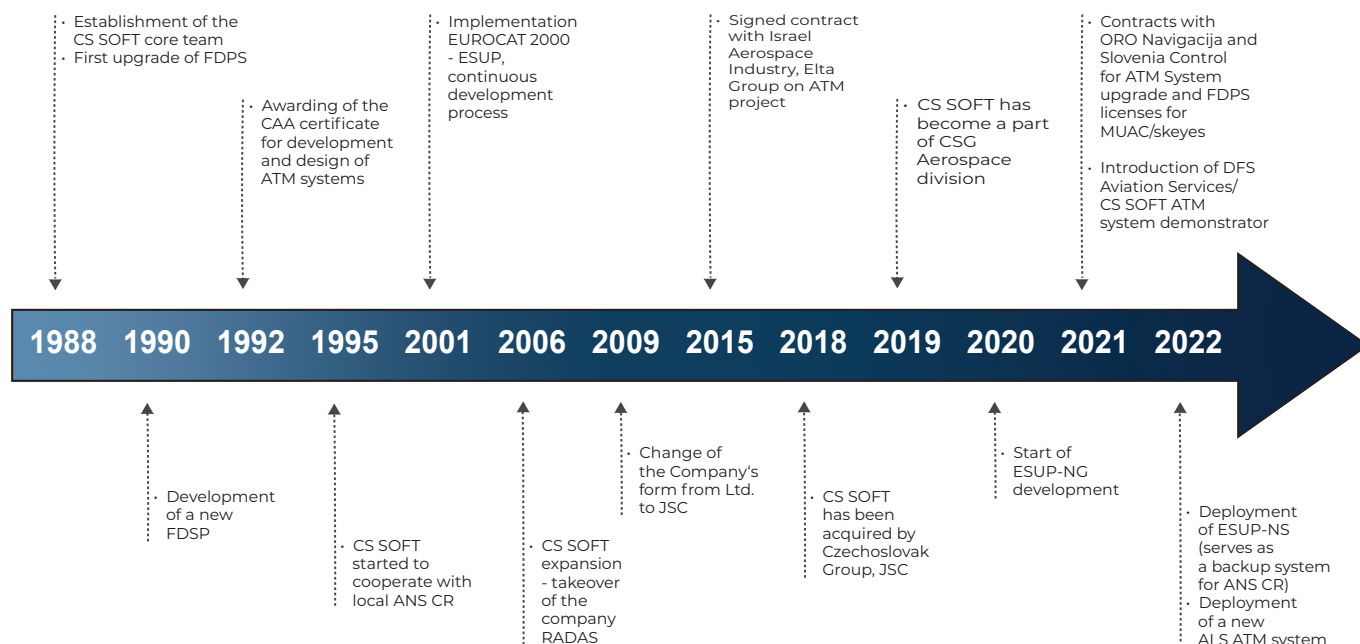# COMPANY PROFILE

## ABOUT COMPANY

CS SOFT is a traditional, state-of-the-art provider of Air Traffic Management and General Aviation solutions. Over the past 30 years, the company has evolved from a small private Czech-based business into a dynamic European company with advanced software development methodology, extensive experience, a rich product portfolio, and successful civil and military installations on four continents. Our strong emphasis on flexibility and customer orientation, together with close cooperation with subject-matter experts, enables us to deploy customized scalable and reliable solutions, which are fully compliant with the industry recommendations and regulations.

Organizations such as Air Navigation Services of the Czech Republic, Lithuanian Oro Navigacija, Slovenian Air Navigation Service or Israel Airports Authority are our long-term customers. Company CS SOFT is a member of the industrial group CZECHOSLOVAK GROUP and its division CSG Aerospace.

## COMPANY SIGNIFICANT MILESTONES

**Above timeline:**

- Establishment of the CS SOFT core team
- First upgrade of FDPS
- Awarding of the CAA certificate for development and design of ATM systems
- Implementation EUROCAT 2000 - ESUP, continuous development process
- Signed contract with Israel Aerospace Industry, Elta Group on ATM project
- CS SOFT has become a part of CSG Aerospace division
- Contracts with ORO Navigacija and Slovenia Control for ATM System upgrade and FDPS licenses for MUAC/skeyes
- Introduction of DFS Aviation Services/ CS SOFT ATM system demonstrator

**Timeline:** 1988 · 1990 · 1992 · 1995 · 2001 · 2006 · 2009 · 2015 · 2018 · 2019 · 2020 · 2021 · 2022

**Below timeline:**

- Development of a new FDSP
- CS SOFT started to cooperate with local ANS CR
- CS SOFT expansion - takeover of the company RADAS
- Change of the Company's form from Ltd. to JSC
- CS SOFT has been acquired by Czechoslovak Group, JSC
- Start of ESUP-NG development
- Deployment of ESUP-NS (serves as a backup system for ANS CR)
- Deployment of a new ALS ATM system

## CERTIFICATES

All CS SOFT products meet the high demands for functionality, safety and reliability set by legal and professional regulations, including but not limited to Basic Regulation (EU) 2018/1139 and Implementing Regulation (EU) 2017/373. An integral part of high-quality development is the consistent implementation of development processes at least at ED-153 SWAL4/SWAL3 level within the management system certified according to EN ISO 9001:2015 and EN ISO/IEC 27001:2013.

## MAIN AREAS OF ACTIVITY

### Systems for Air Traffic Control

CS SOFT designs and develops systems for area control (ACC), approach services (APP), tower services (TWR) and flight information service (FIS). The complete ATC systems and the separate system modules assist in processing of the flight plan data and surveillance data, which are essential for maintaining accurate overview of the air traffic situation; flight trajectory computations; evaluation of conflicting trajectories etc.

### Systems for Airports & Ground Services

CS SOFT also develops two integrated systems enabling secure distribution of sensitive serveillance data between various airport entities (ARFF, handling agencies etc.); communication between air navigation services and the airport; data visualization; information precision and sophisticated prediction.

## MAIN PRODUCTS

### ESUP

- Flight data processing system
- Seamless integration into an existing ATC environment thanks to high level of modularity and customizability
- Easy setting of interoperability
- Sophisticated two-way AFTN module (AFTN Daemon)
- OLDI complying with EUROCONTROL standard and adjustable to local needs
- Progressive 4D trajectory prediction
- FPL track for procedural control
- Datalink server interface
- ESUP PE - main system
- ESUP NS - backup system

### TRACKER

- Multitracker system handles a wide range of surveillance data sources
- Deploys advanced tracking procedures and displays real-time air situation
- Decentralization in surveillance data processing
- Cooperation with external SDP and FDP systems
- Complete range of data sources and input/output formats
- Nonstop operational availability
- Civil and military deployment capability
- Low investment and operating costs thanks to standard platform (x86/Linux)

### ALS System

- Air traffic management system
- All data (radar & non-radar) accessible from both controllers' positions (EC & PLC)
- Seamless controller-pilot and controller-controller communication
- Degradation resistant CWS
- Complex position information
- Wide range of non-radar presentation options
- Safety Nets, MONA, MTCD, OLDI
- Easy adjustment thanks to high level of parameterization
- Billing and statistics outputs
- Hard copy of traffic situation
- Record and replay features

### ATC Simulator

- Follows the concept of Hi-Fi (high fidelity)
- Accurate copy of ATCO's workplace
- Possible use for ACC, APP and TWR
- Used for all kinds of training
- Precise simulation of air traffic and aircraft flow
- Dynamic correction of traffic density, meteorological data, pseudo pilots, interventions etc.
- Highly modifiable CWS
- Wide range of practice settings
- Record and replay tools

Member of **CSG** Aerospace

www.cs-soft.cz