



JSC VNIIRA

19, Shkiperskiy Protok,  
Saint-Petersburg, 199106  
Tel.: +7 (812) 356-06-11  
Fax: +7 (812) 352-37-55  
info@vniira.ru  
www.vniira.ru

## VNIIRA.

AIR TRAFFIC MANAGEMENT  
SYSTEMS AND AIDS

Complexes of Air Traffic  
Control Automation Aids

Air Surveillance Aids

Navigation and  
Landing Radio Systems

Weather Radar Systems

Airborne Navigation and  
Landing Equipment

Antenna and Feeder  
Systems and Devices

Automated Flight  
Test System (ASLK)

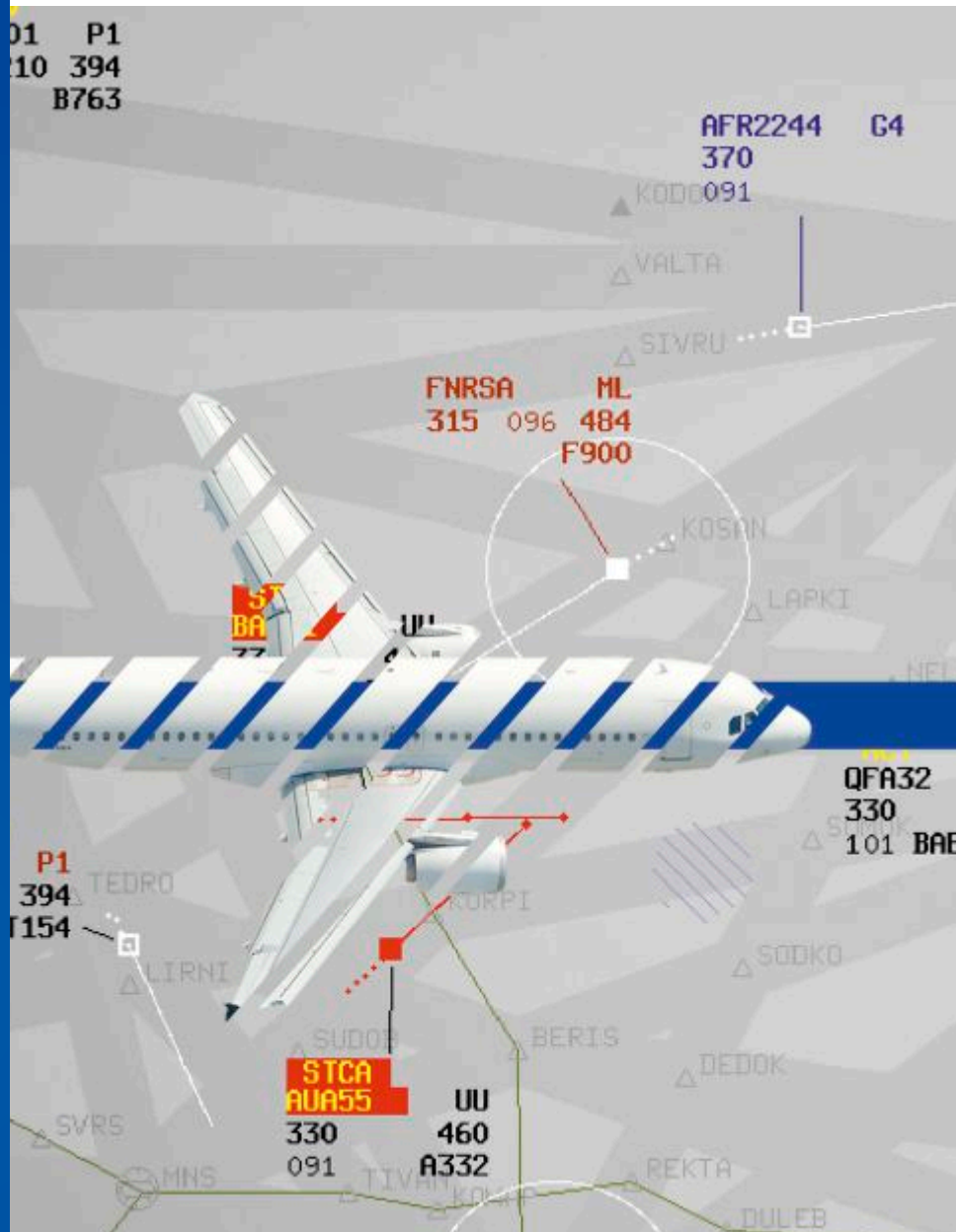
ATC Training Systems



AIR TRAFFIC MANAGEMENT  
SYSTEMS AND AIDS

Complexes of Air Traffic  
Control Automation Aids

# KHABAROVSK CONSOLIDATED CENTER of Unified air-traffic management system (UATMS) in Russia



## KHABAROVSK CONSOLIDATED CENTER of Unified air-traffic management system (UATMS) in Russia



As part of Federal Target Program «Modernization of the unified air traffic control system of the Russian Federation (2009–2015)» in October 2011 Khabarovsk consolidated center of Unified air-traffic management system (UATMS) in Russia has been launched. It is the first consolidated center fully furnished with Russian equipment.

The key element which allowed to implement this project is automated air traffic control system (AATCS) based on air traffic control automation complexes (ATCAC) «Sintez-R3» and the airspace use planning automation equipment system (ASUPAES) «Sintez-PIVP».

Designer and supplier for ATCAC AES is JSC VNIIRA which is part of JSC «Concern «Almaz-Antey».

JSC VNIIRA has designed the advanced hardware-software complex which outruns the international companies developments. The scale and automation level of the system corresponds to the level of similar complexes in the world. According to European organization classification of European organization for air safety provision (EUROCONTROL) it refers to the **third automation level** out of four possible levels, and it is higher than any of modern European ATC centers.



For the first time in Russia some unique features which entirely comply with EUROCONTROL recommendations are implemented in ATCAC «Sintez-R3». Interaction with ATCAC interfacing centers, support of decisions by means of automatic notifications of conflict situations and course displacement occur in automatic mode.

In Khabarovsk consolidated center JSC VNIIRA equipped more than 40 «SINTEZ-R3» ATCAC AS automated workstations for controllers, monitoring 18 air-traffic sectors in the Far-East region. Over 200 operators monitoring air traffic are employed in a consolidated center.



Due to new system implementation the required **safety level of flight control is increased** and **air-traffic handling capacity is increased for 1.5 times**. Moreover efficiency of national security tasks will be improved and the air-traffic management system of the Russian Federation will be integrated into global air navigation system based on ICAO world concept of CNS/ATM.

Khabarovsk consolidated center has been highly appreciated by ICAO regional office.



**AIR TRAFFIC MANAGEMENT**  
SYSTEMS AND AIDS

SINCE 1946