



Oslo, January 2010.



Norwegian Air Traffic Control Services Company  
AVINOR congratulates its new  
Procedure Design and Aeronautical Charting System.

AVINOR

In 2007 a consortium led by CGx AERO in SYS, ESRI Advanced business partner, and including ENAC (*Ecole Nationale de l'Aviation Civile*, the French Civil Aviation Academy) and GEODATA (ESRI distributor in Norway) were awarded an international tender launched by AVINOR AS for its *Procedures for Air Navigation, Design and Aeronautical Charting system*.

Avinor is a state-owned limited company that is responsible for operating the Norwegian airport network. The company owns and operates 46 airports throughout the country, incl. 12 in cooperation with the Armed Forces. Avinor operations also include Air Traffic Control towers, control centers and technical infrastructure for aircraft navigation.

In 2009, after less than 2 years of audit, integration, customization, training and operating test period, the Procedure Design and Aeronautical Charting system is running and permits Avinor conduct of:

- **designing flight procedures (PANS-OPS)**
- **creating aeronautical charts**
- **conducting geospatial analyses, calculations, and transformations related to air navigation services**
- **migrating all existing AIP charts to the new system.**

The solution implemented and maintained by CGx AERO in SYS is based on Avinor's AIXM ORBIT Database and includes:

- **GéoTITAN**<sup>®</sup>, ENAC's ICAO compliant expert *Procedure Design Suite*<sup>®</sup>, and very evolutive solution for PANS-OPS (including CONV, RNAV and PBN PD)
- **AIP-GIS Charting**<sup>®</sup>, expert suite producing ICAO Aeronautical charts, based on ESRI's ArcGIS Desktop and Production Line Tool Set (**PLTS**) **Aeronautical Solution**
- **Ai-Sky Data**<sup>®</sup> framework as data gateway (ARINC coding, AIXM, etc.) and *Ai-Sky 3D*<sup>®</sup> for 3D validation of the procedures
- **ESRI's JTX**, job tracking extension for operational workflow management

This solution is not just about Aeronautical Charting but it also provides a database centric approach to manage aeronautical information including AIXM support based on ORBIT DataBase, compliantly with Avinor standards and the International Civil Aviation Organization (ICAO) Annex 4 standards. This Aeronautical Suite is used for chart generation, chart updates, and workflow management throughout the AIM Department.

Says Christian Øgaard, Avinor's Project Leader: "*The Procedures for Air Navigation, Design and Aeronautical Charting system which provides an integrated platform for charting and procedure design has provided Avinor with an important tool for better production capacity as well as improved accuracy, security and efficiency. For Avinor this has been a step from the past and into the future with regards to charting and procedure design. We are looking forward to the continuous development of the system and to the continued cooperation with CGX AERO in SYS*".

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