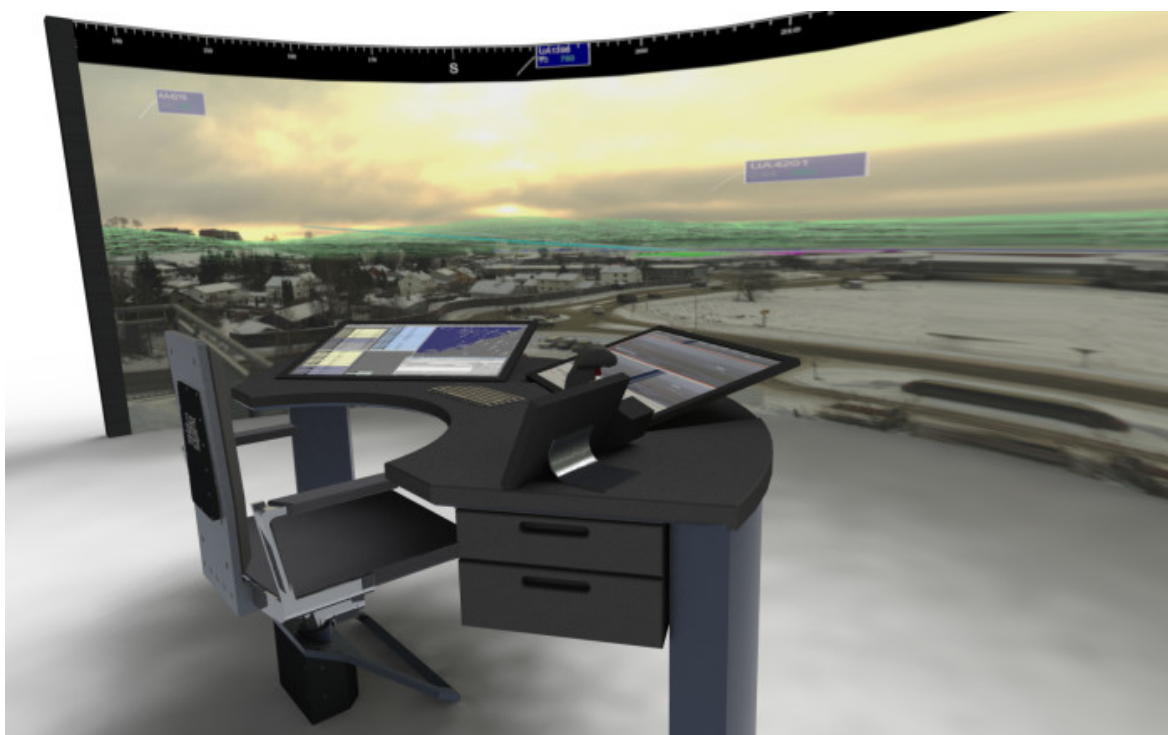


INFORMASJON FRA ATM NORGE

Nyhetsbrev september 2015

Nytt fra Avinor:

Avinor og KONGSBERG inngår avtale om verdens største satsing på fjernstyrte tårn.



Kongsberg Defence Systems (KONGSBERG) og Avinor Flysikring AS har inngått en kontrakt for leveranse av et antall fjernstyrte tårn verdt 400 MNOK. KONGSBERG er hovedleverandør i tett samarbeid med partner Indra Navia AS.

Leveransen inneholder en komplett løsning for fjernstyring av tårntjenesten ved flere lufthavner fra ett kontrollsenter. Avinor har tidligere besluttet å investere i fjernstyrt tårntjeneste for opp til 15 lufthavner, fra et tårnsenter lokalisert i Bodø. En videre satsing forventes å omfatte flere av Avinors lufthavner. Avtalen mellom Avinor og KONGSBERG er den mest omfattende satsing på fjernstyrte tårn som noensinne er lansert innenfor internasjonal luftfart.

KONGSBERG anvender teknologi fra militære prosjekter og knytter dette sammen med Indra Navias avanserte og modne tårndriftløsninger. I denne teknologien inngår bl.a. robuste og avanserte sensorer, sikre og redundante nettverksløsninger for fjernstyring av flyplasser, samt kontroll av sanntidsdata og datalagring.

Indra Navia vil levere det integrerte fremvisersystemene basert på deres ledende Nova tårn systemer levert verden over, bl.a. til London Heathrow, Paris Charles De Gaulle, Dubai, Beijing og mange andre flyplasser.

- Vi ser fram til et tett og godt samarbeid med KONGSBERG og Indra Navia fremover. Selskapene har vist at de leverer den samlet sett beste løsningen for Avinor, i hard konkurranse med andre internasjonale aktører. Nå starter jobben for fullt med å etablere tårnsenteret og innføre framtidens tårntjeneste, sier administrerende direktør i Avinor Flysikring, Anders Kirsebom.

- Denne kontrakten med Avinor er av stor betydning med høy fokus i KONGSBERG, og et eksempel på potensialet i vårt teknologispenn og mulighetene for å hente ut synergier. Fjernstyrte tårn-løsninger er et marked i startfasen internasjonalt, sier administrerende direktør i Kongsberg Defence Systems, Harald Ånnestad.

- Indra Navia er stolt over å være en del av denne viktige og banebrytende kontrakten, som innebærer en ny anvendelse av vårt Nova-system. Med over 95% eksport av tårnsystemer fra Norge til verdens ledende flysikringsorganisasjoner og flyplasser, ser vi fram til samarbeidet med Avinor og KONGSBERG, for deretter å tilby denne unike løsningen til et voksende internasjonalt marked, sier administrerende direktør i Indra Navia, Eldar Hauge.

Pressemelding fra Avinor den 25.8. Trykk [her](#) for å lese hele pressemeldingen.

Landsdekkende Wide Area Multilateration (WAM) løsning etableres.

Avinor Flysikring faser ut store deler av konvensjonell radar-infrastruktur og etablerer landsdekkende WAM løsning.

Primærradar er allerede faset ut i Norge i sammenheng med sivil flykontroll (unntak: Gardermoen), men opprettholdes ellers der Avinor Flysikring yter innflygingstjenester til Forsvaret.

WAM-kontrakten ble tildelt SAAB Sensis.

Pressemelding fra Avinor den 10.8. Trykk [her](#) for å lese hele pressemeldingen.

Treningssenter for flygeledere tårn ferdigstilt på Fornebu.

Avinor Flysikring kjøper treningstjenester over en kontrakt med Integra AS.

Integras realisering er basert på teknologi fra Edda Systems og ekspertstøtte fra IFE Halden.

Pressemelding fra Avinor den 7.9. Trykk [her](#) for å lese hele pressemeldingen.

Nytt fra Edda AS:

Edda Systems delivers Tower Simulator for Avinor Controller Training

Avinor has signed a contract with Integra regarding provision of tower simulator training for ATCOs at 20 Norwegian airports. As subcontractors Integra uses Skyguide for instructor support, and Edda Systems as provider of the ATC simulator system.

In the former SAS business lounge at the old Fornebu airport terminal, the simulator is now

established with

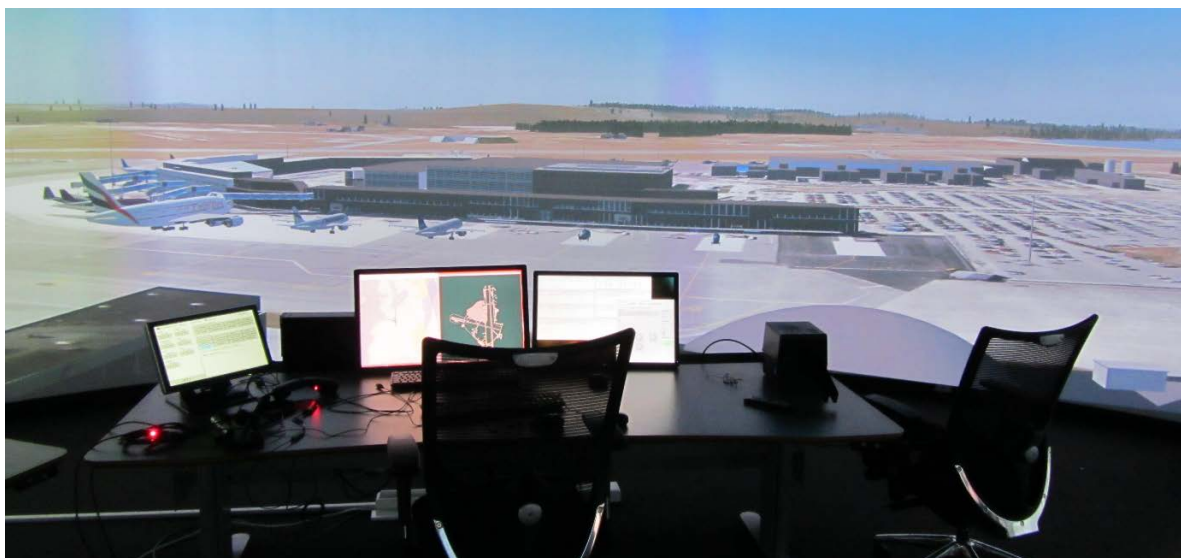
- one 8 meter diameter cylindrical tower simulator, 360 degrees with three working positions
- one 10 meter diameter cylindrical tower simulator, 360 degrees with five working positions
- pilots room containing 11 pilot working positions and two supervisor positions

The system is using state of the art technology, providing cylindrical projection of a seamless 360 degree tower view. Also, unique touch screen functionality is used in advanced user interfaces for efficient piloting of aircraft on ground and in the air. All positions are interconnected by Edda Systems' Voice Communication System Simulator (VCSS). The simulator supports up to 15 simultaneous, independent exercises, where each position can be allocated to any exercise. Both towers can be part of the same exercise, for simulation of traffic gate-to-gate between airports.

Skyguide has completed the training of 12 Norwegian pseudo pilots, hired by Integra to provide piloting of aircraft during simulations. The training period was completed in two weeks. The controller training is planned to start in October, which includes airports at Stavanger, Ålesund, Kvernberget, Bergen, Torp, Evenes, Tromsø, and Gardermoen.

Edda Systems AS was founded in 2005 and has its main office at Spikkestad, Norway. Edda is specialized in ATC systems software development. The main product is eCoach which is a modern user friendly, full-fledged air traffic control simulator with capabilities for 3D tower, ACC and APP training.

www.eddasystems.no



Norway's Avinor and KONGSBERG have entered into agreement on the world's largest investment for remote ATC towers.

The scope contains a complete solution for remote control of tower services at a number of airports from one location. Avinor had earlier decided to introduce remote control and tower services at up to 15 airports, from one tower centre in Bodø. A further investment may include more Avinor airports. KONGSBERG employs technology from defence projects and integrates them with Indra Navia's advanced solutions for tower management. This technology includes rugged and innovative sensors, secure and redundant network-based solutions for remote control of towers, as well as control of real-time data and data storage solutions. Indra Navia will deliver an integrated visualization systems based on their leading Nova Tower line supplied worldwide to, amongst others, London Heathrow, Paris Charles de Gaulle, Dubai, and Beijing Airports. #1008.ATC3

The Namibian Directorate of Civil Aviation (DCA) plans to improve coverage and modernize the entire ATC VHF radio communication network for the Windhoek FIR.

Norway-based Jotron and its Namibian partner, Teltech, have been selected to supply a turnkey solution for the entire project. The upgrade will be implemented in conjunction with two other projects: a VoIP Voice Communication System (VCS), and a Voice Recording System (VRS) in which Teltech will also conduct installation, commissioning and maintenance support. The complete system is based on the ED-137(B) VoIP protocol, and Namibia will be the first country in Africa that to use that protocol for all communication throughout the network. The solution will also integrate the existing analogue radios into the VoIP system using a radio gateway that efficiently converts an analogue radio interface into a fully compliant ED-137(B) solution. #1007.ATC8

Saab in Sweden has been selected by Avinor Air Navigation Services, Norway's ANSP, to deploy multilateration technology for air traffic surveillance coverage across all of Norway along with surface surveillance for Norwegian airports.

Avinor's NORWAM system will provide air traffic surveillance data to the ARTAS (advanced surveillance data system) tracker through a constellation of sensors installed throughout the country. The system will replace several existing radars which have reached their end-of-life dates. The surveillance data will be fully compliant with all applicable standards in the different airspaces such as En-route, TMA, CTR and surface coverage volumes. The first phase of the project is to implement WAM coverage for TMAs and CTRs within three regions of Norway. Over the coming years, Avinor plans to expand the coverage across the nation. #1008.ATC13
