

PRESS RELEASE

Dubai - United Arab Emirates

2017 to stand as a successful
year of collaboration with
Dubai Aviation Entities for Bayanat
Engineering.

Bayanat Engineering stated that 2017 represented one of the Group's most successful years in terms of collaboration with Dubai Airports, Dubai Aviation Engineering Projects and Dubai Air Navigation Services; further positioning the organization as a dominant aviation solutions provider.

Dubai – 10/17/ 2017: To meet Dubai Aviation's growing demand for efficient and reliable solutions, Bayanat Engineering sharpened its solutions spectrum with partnered technology providers. The 2017 achievements illustrate well how the company commits to support Dubai aviation's growth plans.

In its bid to modernize its Air Traffic Communications, Dubai Aviation Engineering Projects adopted upgrades to its Air-to-Ground Radio Systems at Dubai and Al Maktoum International Airports by awarding Bayanat Engineering a contract to supply and install Northrop Grumman Park Air Systems new Sapphire T6 Radio solutions. The Contract was awarded by Dubai Aviation Engineering Projects (DAEP) in the end of December 2015.

DXB being the busiest international airport in the world projecting 89 million passengers this year, and Al Maktoum being ranked in the top 20 airports globally for international air cargo volumes; the Air to Ground Radio systems installed in both airport sites needed to be upgraded due to traffic growth and to have separate Main and Standby Radios in dispersed Radio Shelters and Antenna Masts.

The programme included a new software functionality to assist ATC's and Simultaneous Call Transmission detection. The Park Air SCT technology alerts the operator to the possibility of call blocking and the loss of vital communications between pilots and ground operations. Moreover, the new system will benefit Dubai Air Navigation Services (dans) in enhancing resilience in radio communication systems as well as providing access to new additional radio frequencies which will, in turn, provide further enhanced coverage in both Dubai CTA and on the ground.

Conscious of the environmental impact, Dubai Aviation Engineering Projects is pleased with the minimized footprint and power consumption of the radios, and the exclusion of hazardous materials, such as beryllium and lithium. Also, being the lightest and smallest radio in its market means that the expanded Dubai radio system can be compressed into the same amount of equipment room space as was required for the previous smaller number of channels. Due to the improvements to receiver interference threshold and transmitter noise output in the Sapphire range of radios, the cabinet space required for cavity filters has been cut by 75% per channel with no loss of audio quality.

The Sapphire Air Traffic Management communication systems have gone live at both airports in September 2017.

On the Meteorological front, to supplement observation around Dubai International Airport and Al Maktoum International Airport, Dubai Aviation Engineering Projects contracted Bayanat Engineering for the supply and installation of an Outer Automatic Weather Observation System (AWOS). These stations provide to Dubai Air Navigation Services an early detection of aviation-related weather events, allowing the Met Office to provide pieces of information to the stakeholders and to reduce the loss of capacity.

Bayanat Engineering trusted Vaisala, a global leader in environmental and industrial measurement headquartered in Finland, to provide the accurate solutions. The project requirements included tiltable mast for the three sites, wind speed and direction sensors as well as temperature and relative humidity sensors, weather detectors, ceilometer and aviMET software to be integrated into the existing Vaisala

CDU located in the ATCT equipment room. This project was concluded and successfully handed over in August 2017.

Finally, in the list of achievements in 2017, Bayanat Engineering announced the completion of its Runway Debris Monitoring Systems for Dubai Airports operations.

To reduce runway closure for manual FOD Detection, Dubai Aviation Engineering Projects initiated in 2015 the installation of a Runway Surveillance and Foreign Object & Debris Detection (FOD) System. Stratech Systems Limited - a Singaporean company whose key breakthroughs include intelligent vision systems, highly sophisticated and adaptive technologies administrating precise image - has been commissioned to provide the major component and system solution of this project after their successful Singapore implementation and other key references.

The iFerret™ system installed is the world's first intelligent Vision-based FOD detection system, providing real-time automated FOD detection, location, classification, measuring and recording, approved by the US Federal Aviation Administration, and compliant with ICAO requirements.

It offers a superior high-definition image quality, with an unmatched night visibility, accompanied by a high FOD detection rate. The solution allows Dubai Airports to receive all critical information accurately to establish quick assessments and confirmations of potential threats, enabling the prevention of unnecessary runway closures.

Providing 100% coverage on two runways and four taxiway crossings, the delivered solution will prevent potential aircraft damages and fatalities caused by FOD, ensuring airside security and safety. The RDMS project has successfully gone live in July 2017.

Mr. Georges Hannouche, CEO of Bayanat Engineering, while emphasizing on the perpetual quest of being a trusted services provider for the Dubai Aviation Community, stated: *"We are very proud of the long-lasting relations we have built with Dubai Aviation Engineering Projects, Dubai Airports and Dubai Air Navigation Services, thanks to the unparalleled quality of work we provide and certainly, thanks to our years of partnerships with trusted players in the region and abroad. We are confident that 2018 will be another banner year for Bayanat Engineering and our customers' successes."*

About Dubai Aviation Engineering Projects

Dubai Aviation Engineering Projects (DAEP) is a leading engineering organization responsible for the design, master planning, infrastructure development and construction of Dubai's dynamic aviation sector. On behalf of the Government of Dubai, DAEP spearhead the development of the world's First -busiest airport for international passenger traffic, Dubai International Airport, and the emirate's new airport, Al Maktoum International Airport, part of the world's first 140-square-kilometer purpose-built aero polis, Dubai World Central.

DAEP's engineering ingenuity is based on years of overcoming technical, logistics, timing, and resource challenges on some of the world's most complex and sophisticated engineering projects. Whether it is master planning a mega aviation district or poring over the smallest technical details, DAEP never lose sight of their ultimate objective – to deliver state-of-the-art engineering projects that empower economies, facilitate trade and bring people together.

DAEP works closely with its stakeholders to enable the continued excellence and strategic growth of Dubai's aviation sector. This requires an intimate understanding of the plans, projections and objectives of the different entities driving the dynamic aviation sector and working seamlessly together to bridge today's capacity needs with tomorrow's possibilities.

About Dubai Air Navigation Services

Dubai Air Navigation services (dans) is the air navigation services provider that manages the Dubai and Northern Emirates airspace. dans also provides air navigation services for airport authorities and numerous prestigious airlines, including the World's busiest airport in terms of international passenger numbers-Dubai International Airport (DXB).

About Bayanat Engineering

Founded in 1983 in the United Arab Emirates, Bayanat Engineering delivers an array of Air Traffic Management, Meteorological, Airside and Terminal solutions and has successfully executed over 1200 Civil & Military Airports Projects throughout the GCC and North African regions.

For the past 20 years, Bayanat Engineering has been serving Airports, Air Navigation Service Providers, Civil Aviation Authorities, Military Bases, Security & Customs Services, as well as Meteorological Authorities.

The company's strength lies in its capability to integrate the various technologies in environments where quality, safety, security and efficiency are the main drivers.

With offices in the United Arab Emirates, Qatar, Morocco and Kingdom of Saudi Arabia, Bayanat Engineering has the ability to cover the Gulf and Northern African territory, maintaining the highest level of engineering services delivered in timely and efficient manners.