Yet another airport reference for Ontrol: Türkmenabat International

> *"Ontrol team deserves praise for completion of distributed systems in 30 buildings and areas in record time."*
>
> Onur Örsalır
> Low voltage systems director
> Gündogdu HK

Ontrol boasts a long and strong precense in Turkmenistan, being the dominant building automation systems supplier in the developing country. As part of the modernization program of transport facilities, Ontrol was awarded the building automation and facility management systems for Turkmenabat Airport project, having delivered previously successfully in Ashgabat and Turkmenbasi International Airports.

CHALLENGE

Ontrol's prior work in mega projects of Turkmenistan were commissioned by Turkish and international contractors. In the case of Turkmenabat Airport, however, the customer was a local contractor, Gündogdu HK.

Although not as large and comprehensive in scope as the Ashgabat Airport, this installation had unique requirements and difficulties as airport facilities investments invariably do. 30 buildings across 37.000 square meters required automation systems and integration into a facilities management network.

The planned capacity was 500 passengers per hour for the terminal and 200 tons annually for cargo. The remote location close to the Ozbekistan border meant it would be impossible to complete the project with remote support. A strong local team was definitely needed.

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PROJECT SUMMARY

Proje type : Advanced Integration

Customer: Gündogdu HK

Country: Türkmenistan

City: Türkmenabat

Project completion date: 2021

Number of buildings: 30

Project Area: 37 bin metrekare

Integrated Systems: HVAC, SCADA

HVAC control points: 4.200

Total Control Points: 6.000 including SCADA

Number of controllers: 14 Jaces, 112 P-IONs

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SOLUTION

The project was of critical importance for the main contractor, Gündogu HK, who awarded Ontrol the job to design and install the automation system *powered by Niagara Framework*.

Ontrol's prior work and experience with the Niagara Framework in the country's major airports was not the only factor in this decision. Its local presence with an experienced technical team was an important consideration. This local team of engineers and technicians was positioned to provide timely and comprehensive service during the planning, execution, handover phases, as well as during operation of the airport afterwards.

The installation integrates a total of 6.000 data points, with 4.200 in the HVAC system and a further 1.800 from SCADA systems. A total of 112 programmable controllers are interfaced to 14 Tridium JACEs. The custom web based user interface was designed to be served in two languages - English and Russian. Comprehensive final user guides were delivered in both languages.
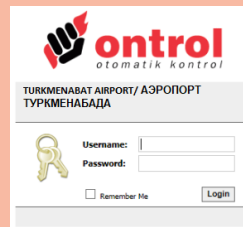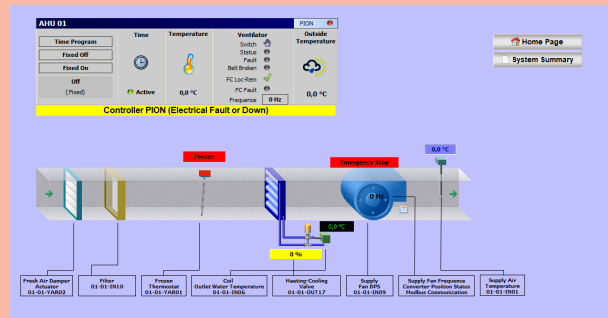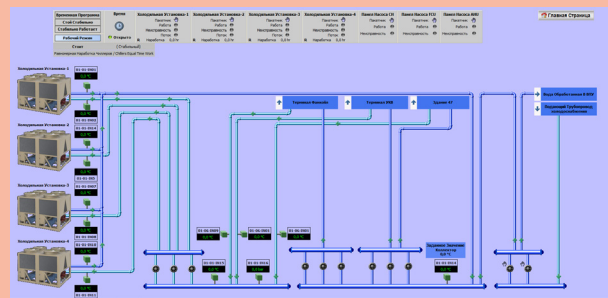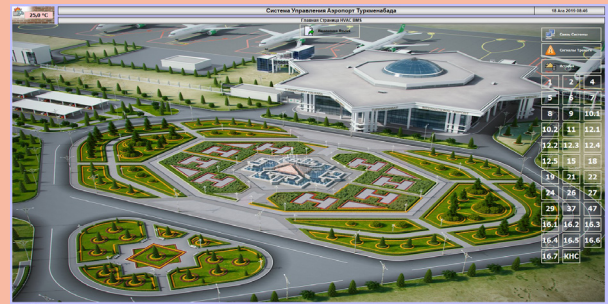
RESULTS

Ontrol delivered best-of-class local service with an experienced team from systems design to handover and end-user training in three languages.
The airport has been in operation since 2021.

The passenger terminal, with the roof shaped in an octagonal "star of Oguz Han" is noted in the Guinness Book of Records as the largest star-shaped building in the world.

ABOUT ONTROL

Ontrol is a major systems integrator based in Istanbul, Turkey, that traces its roots back to 1963. The company developed a strong specialization in automatic control systems, which continues today under second-generation management. Ontrol serves a wide geographical area, stretching from South America to Europe to Kazakhstan with projects in several cities and countries, including the New Istanbul Airport in Turkey. Ontrol has been a very early adapter of Niagara Framework, starting with R2 in 2001.

In line with customer expectations, the custom web-based user interface was designed for selectable dual language use.

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