



360PRO™

PROJECT CASE STUDY

CLIENT: DALLAS FORT WORTH INTERNATIONAL TERMINAL

COMPLETED DATE: 2021

“When we started, the 3D scans were for the airport environmental group to use for energy simulations. Today, facility operations, concessions, TSA, security and all the agencies are using the digital twin to improve operations.”

Ron Hughes, VTS
Project Manager



DIGITAL TWIN FOR DFW INTERNATIONAL AIRPORT TERMINAL

SITUATION

Dallas Fort Worth airport was undergoing extensive renovations and decided to pilot the effectiveness of a 3D model. VTS was tasked with laser scanning the international terminal that spans over 2.1 million square feet. An airport of this size is the equivalent of a small city, with its own bureaucracy, government agencies and multiple departments.



CHALLENGE

Laser scanning complex facilities such as airport terminals requires a lot of scheduling and project management. An international terminal has additional levels of complexity and bureaucracy, including Border Patrol, Customs, TSA, and departments

Gaining access to the different areas required a lot of coordination and communication with department managers. VTS handled all the operational and logistical challenges for the VTS Pro scan crew to gain access to the terminal buildings, parking deck and perimeter.

WIN

The digital twin is transforming airport operations, monitoring and maintenance. Immediately after it was delivered, multiple agencies and departments got on board and started to utilize the 3D model.

The digital twin model includes visuals and dimensions of the HVAC, plumbing, electricity, and all assets within the infrastructure. The facilities maintenance team found immediate value with the 3D model for remote asset management, planning safety protocols and security management within the massive facility.

