



Greater Rochester International Airport

Passenger Information System

Rochester NY

GRIA

Scope: Passenger Information System (ROC View)

Overview:

To provide additional access to flight information, amenities, Food Services and entertainment, the Greater Rochester International Airport requested conceptual design, prototype and final design of a new traveler application for use on mobile and permanently mounted devices within the Airport.

Stated Objectives / Problems:

The Airport stated objectives were to provide real time flight information from the Flight Information Display System (FIDS), access to food vendor menus, view of live gate cameras, and family friendly games. The entire system was to be accessible while on the airport site, and not accessible from the internet or other means outside the airport physical site. Initial proof of concept did not include access to system by hand held or portable devices.

VS Energy Process:

- Proof of Concept and Prototype:
 - VS Energy developed a proof of concept specification and developed a functional prototype including real time connection to gate camera and integration with Flight Information Display System.
 - Prototype was expanded to include the use of hand held devices to access the application
 - Expanded proof of concept was reviewed by VS Energy conducted 30%, 70% and 100% review meetings with stakeholders, and prepared project budget.
 - VS Energy prepared technical procurement documents
- Contractor scope and selection
 - VS Energy prepared scope and bid documents for the ROC View contract.
 - All bidders were 30-40% below budget
 - Post receipt of bids, pricing and interviews of contractors were completed by VS Energy.
 - Bid analysis and recommendation performed by VS Energy
- Construction Management
 - VS Energy coordinate the expansion of the Frontier public wireless internet access, which acts as the secure portal to the Roc View system and upgrade to a new 500 mb access, to facilitate multiple simultaneous viewers of the live gate cameras.

- VS Energy prepared the security testing documentation for implementation by a subcontractor to assure the Roc View system may not be accessed outside the physical boundaries of the Greater Rochester International Airport.
- VS Energy facilitated ongoing value added recommendations to include design feature which expanded the ROC View application
 - Additional ROC View features including explore, amenities, specific food and hospitality vendor maps, gate wayfinding maps showing directions to specific gates from the Security checkpoint
 - During construction numerous design changes were added by the owner, and integrated with the base design to create more features, highlight the amenities, efficiency, and wayfinding design features at the airport. Improved graphics and added menu items, more modern visuals and user interface, and more intuitive drill down menus.
- Commissioning
 - VS Energy developed a comprehensive commissioning plan for the functionality of the ROC View system including the customer management system (CMS) where system administrators may edit the site content, add, delete, modify pages, games, menus, etc.
- Close Out
 - VS Energy reviewed contractor submitted as-built documentation for completeness and accuracy, including complete network connections, operations and maintenance manuals.

Results:

- ROC View/ Passenger Information System
 - 20 Microsoft Surface tablets were installed within the terminal configured to run the ROC View application
 - ROC View is accessible via cellphone through the Frontier Wireless WiFi
 - ROC View users can view their gate through the webpage displayed on the ROC View application.
 - Project was completed and commissioned at 18% below budget. No contingency dollars were used.