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REQUEST FOR PROPOSAL 2027-006-RFP

SCOPE OF SERVICES

AIRPORT DIGITAL TWIN IMPLEMENTATION & SUPPORT SERVICES

1. PROJECT BACKGROUND

1.1 Overview

The Sanford Airport Authority (Authority) intends to implement an Airport Digital Twin Platform to improve the management, maintenance, operation, and long-term stewardship of airport facilities, infrastructure, and services. The initial implementation will focus on terminal and airfield asset management by integrating information from existing airport systems into a common digital environment that supports improved situational awareness, spatial visualization, maintenance planning, operational coordination, analytics, and informed decision-making.

The Airport Digital Twin Platform is intended to complement—not replace—Authority's existing operational and business systems. Existing systems will continue to perform their respective operational functions and remain the authoritative systems of record within their functional domains. The Airport Digital Twin Platform will leverage information from these systems to provide an integrated operational view of airport assets, facilities, maintenance activities, and selected operational conditions.

the Authority envisions the Digital Twin Platform as a long-term enterprise capability that will serve as the foundation of an Airport Digital Twin "Ecosystem" that will evolve through additional integrations, enhanced analytics (including intelligent visual analytics), new operational use cases, and continued configuration as Airport needs expand.

1.2 Project Purpose

The purpose of this project is to procure professional services from a qualified Solution Provider to configure, implement, integrate, and support an Airport Digital Twin Platform using commercially available software products and industry best practices.

The Solution Provider shall work collaboratively with the Authority personnel to configure the Digital Twin Platform, integrate selected airport systems, develop initial operational use cases, configure dashboards and workflows, and establish a sustainable platform that can continue evolving through future enhancements.

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The Solution Provider is expected to provide both the initial implementation services and ongoing professional services required to continuously improve the Digital Twin Platform throughout its operational life.

1.3 Initial Implementation Strategy

The Authority recognizes that a successful Airport Digital Twin is developed incrementally through phased implementation rather than a single comprehensive deployment.

Accordingly, the initial implementation shall concentrate on business functions that provide measurable operational value while establishing the technical foundation necessary for future expansion.

The initial implementation is expected to focus on the Authority's airport asset management optimization involving:

- Performance monitoring
- Preventive, corrective, and predictive maintenance
- Operational awareness
- Engineering and maintenance decision support

Initial major assets of the terminal and airfield to be optimized include:

- Vertical transportation (e.g., elevators, escalators)
- Passenger boarding bridges
- Baggage handling
- HVAC
- Airfield infrastructure

The implementation priorities and sequencing of these assets may be refined collaboratively with the selected Solution Provider during project initiation. The Solution Provider shall recommend an implementation approach that delivers practical operational improvements while maintaining flexibility for future expansion through additional system integrations, analytics, and operational use cases.

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PROJECT OBJECTIVES

The primary objectives of this project are to:

2.1 Establish an Airport Digital Twin Platform

Configure and implement a scalable Airport Digital Twin Platform that provides a common operational environment for visualizing, integrating, and managing information from selected airport systems and available spatial information.

2.2 Improve Terminal and Airfield Asset Management

Improve the management of terminal and airfield assets through enhanced visibility into asset utilization, asset condition, maintenance activities, equipment performance, inspections, lifecycle information, and related operational information.

2.3 Improve Maintenance Operations

Support proactive maintenance by providing integrated access to maintenance information, work activities, equipment status, alarms, inspections, operational conditions, and asset performance information.

The objective is to improve level of customer service, maintenance planning, reduce response times, increase equipment availability, and optimize maintenance workflows.

2.4 Integrate Existing Airport Systems

Integrate information from selected airport systems to establish a common operational environment that supports engineering, facilities management, maintenance, and other authorized Airport personnel.

The Airport Digital Twin Platform shall complement existing airport systems and shall not replace operational systems responsible for monitoring, controlling, or managing airport infrastructure.

2.5 Improve Operational Awareness

Provide configurable dashboards, visualizations, spatial mapping, AI-powered analytics (including intelligent visual analytics), and user interfaces that improve awareness of airport assets, facilities, equipment status, maintenance activities, operational conditions, and selected performance indicators.

2.6 Improve Decision Support

Provide timely asset, condition, operational, maintenance, and performance information that supports informed operational and maintenance decisions through configurable dashboards, workflows, notifications, and analytics.

2.7 Establish a Sustainable Enterprise Platform

Implement a commercially supported Digital Twin Platform that can continue evolving through additional integrations, dashboards, workflows, analytics, and operational use cases without extensive custom software development.

Configuration of the Platform should utilize standard product capabilities, graphical configuration tools, configurable workflows, configurable business rules, dashboards, forms, object models, and other standard platform capabilities wherever practical.

Implement a Digital Twin Platform that remains open, vendor-agnostic, and capable of evolving without proprietary customization, enabling future enterprise integrations and compatibility with emerging technologies, as part of the Authority's evolving Airport Digital Twin Ecosystem.

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3. GUIDING PRINCIPLES

The Airport Digital Twin Platform shall be implemented in accordance with the following guiding principles. These principles establish the overall philosophy for the project and are intended to guide the Solution Provider's technical recommendations, implementation approach, and long-term support services.

3.1 Business Value First

The primary objective of the Airport Digital Twin Platform is to optimize the management, maintenance, operation, and long-term stewardship of airport facilities and infrastructure; improving airport customer level of service, capacity, and safety. Technology decisions should support measurable business improvements, operational efficiencies, improved asset performance, enhanced maintenance effectiveness, and better-informed decision-making.

The Solution Provider shall recommend implementation approaches that maximize practical business value while minimizing unnecessary complexity.

3.2 Keep It Simple and Sustainable (KISS)

The Authority desires a practical, sustainable Digital Twin Platform that can be cost-effectively maintained and expanded throughout its operational life.

The Solution Provider shall avoid unnecessary complexity and shall recommend solutions that can be reasonably administered, maintained, and expanded by the Authority with continued Solution Provider support as required.

3.3 Commercial Off-the-Shelf (COTS)

The Authority prefers commercially supported software platforms that are actively maintained by their respective software vendors.

The Solution Provider shall utilize standard product capabilities wherever practical and shall minimize custom software development.

Preference shall be given to configurable platform capabilities including:

- Object models
- Spatial mapping

- Dashboards
- Business rules
- Forms
- Workflows
- Reports
- Analytics
- User interface configuration
- Administrative tools

3.4 Configuration Before Customization

The Authority recognizes that Digital Twin technology continues to evolve rapidly.

Accordingly, the Platform should be configured using standard graphical configuration tools rather than custom software development whenever practical.

The Solution Provider shall recommend configuration approaches that simplify future maintenance, software upgrades, integration, and continued platform expansion.

3.5 Existing Systems Remain Systems of Record

The Airport Digital Twin Platform is intended to complement—not replace—existing airport systems.

Operational systems shall continue performing their respective operational functions and remain the authoritative systems of record.

The Digital Twin Platform shall leverage information from those systems to improve visualization, operational awareness, AI-powered analytics, reporting, and decision support.

3.6 Open Integration

The Airport Digital Twin Platform should support integration using industry-standard interfaces, APIs, middleware, web services, event-driven architectures, and other commonly accepted integration methods.

The Solution Provider shall recommend integration approaches that minimize long-term maintenance while supporting future expansion.

3.7 Artificial Intelligence

Artificial Intelligence (AI) should be incorporated where it provides measurable operational value.

Potential applications may include:

- Predictive maintenance
- Asset performance analysis
- Operational analytics
- Pattern recognition
- Trend analysis
- Intelligent dashboards
- Workflow recommendations
- Decision support

The Solution Provider shall recommend practical AI capabilities appropriate for the Authority's operational environment.

3.8 Spatial Enablement

The Airport Digital Twin Platform shall leverage available spatial information where appropriate.

Examples include:

- GIS
- CAD

- BIM
- LiDAR
- Asset imagery (e.g., photographs, videos, 360° imagery)
- Floor plans
- Engineering drawings
- Utility information
- Asset locations
- Equipment layouts
- Aerial imagery
- Operation and Maintenance (O&M) documentation
- Other available engineering and facility information

The Solution Provider shall recommend methods for organizing and presenting this information in a manner that supports maintenance and operations personnel, engineering staff, facilities management, lease and concessions management, and other authorized users.

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4. SCOPE OF SERVICES

The Solution Provider shall provide all professional services necessary to configure, implement, integrate, deploy, support, and continuously improve the Airport Digital Twin Platform.

The Solution Provider shall furnish all software, licenses, configuration, integration services, implementation services, documentation, training, and professional services necessary to provide a complete and operational Airport Digital Twin Platform in accordance with the approved implementation scope.

The Solution Provider's services shall include, but not necessarily be limited to, the following service areas.

4.1 Project Initiation and Planning

The Solution Provider shall conduct project initiation activities necessary to establish the implementation program.

Activities should include:

- Project kickoff
- Confirmation of project objectives
- Review of existing airport systems
- Review of available documentation
- Development of the implementation approach
- Project scheduling
- Identification of implementation priorities
- Coordination with airport stakeholders

4.2 Requirements Validation

Rather than conducting an extensive consulting study, the Solution Provider shall validate the Authority's implementation objectives and confirm the functional requirements necessary to support the initial deployment.

This effort should focus on practical implementation rather than extensive documentation.

The Solution Provider shall identify opportunities to improve operational efficiency, maintenance effectiveness, asset visibility, and workflow optimization through the Digital Twin Platform.

4.3 Airport Digital Twin Platform Configuration

The Solution Provider shall configure the selected Airport Digital Twin Platform using standard product capabilities.

Configuration activities may include:

- Object model configuration
- Asset hierarchy configuration
- Spatial configuration
- Dashboard development
- Business rule configuration
- Workflow configuration
- User interface configuration
- Notification configuration
- Report configuration
- Administrative configuration
- Security configuration

Custom software development should be minimized whenever practical.

4.4 Spatial Information Integration

The Solution Provider shall review and incorporate available Airport spatial information as appropriate for the approved implementation scope.

Information may include:

- GIS data
- CAD data

- BIM data
- LiDAR data
- Imagery
- Floor plans
- Engineering drawings
- Utility information
- Equipment layouts
- O&M manuals
- Asset inventories
- Other available engineering and maintenance information

The Solution Provider shall recommend practical methods for organizing and presenting this information within the Airport Digital Twin Platform. Additionally, the Solution Provider shall assess the current maturity of the Authority's GIS and related spatial information and provide recommendations as well as a roadmap for improving spatial data quality, completeness, governance, and integration in support of the Airport Digital Twin Platform.

4.5 Data Collection

The Airport Digital Twin Platform derives its value from the systematic collection, refinement, consolidation, and integration of data from existing airport systems. Accordingly, the Solution Provider shall identify, configure, test, and implement all interfaces required to enable the approved implementation scope. The Solution Provider shall also, upon request, furnish additional consulting services accompanied by detailed job descriptions and a corresponding cost schedule included in their proposal, to support the Authority staff in gathering, refining, and consolidating data contained within the interfaced systems.

4.6 System Implementation and Integration Services

The Solution Provider shall recommend practical integration approaches that maximize the use of existing interfaces, application programming interfaces (APIs), web services, event-driven architectures, and other industry-standard integration methods while minimizing unnecessary complexity and long-term maintenance.

The Solution Provider shall collaborate with Airport personnel, software vendors, and third-party service providers, as necessary, to configure and validate system interfaces.

The Authority recognizes that not all systems may initially support the same level of integration. Therefore, the Solution Provider shall recommend an implementation strategy that delivers measurable business value while allowing additional systems and interfaces to be incorporated over time.

Initial implementation is expected to emphasize integration with systems supporting terminal and airfield asset management, facilities maintenance, and infrastructure operations.

4.7 Airport System Integration

The Solution Provider shall evaluate and configure interfaces with selected Airport systems approved by the Authority. Existing systems shall continue serving as the authoritative systems of record for their respective functional domains.

Initial implementation is expected to include integration with systems such as:

- Computerized Maintenance Management System (CMMS) / Enterprise Asset Management (EAM)
- Building Automation Systems (BAS/BMS)
- Heating, Ventilation and Air Conditioning (HVAC) Systems
- Passenger Boarding Bridge (PBB) Systems
- Baggage Handling Systems (BHS)
- Vertical Transportation Systems (elevators, escalators, and moving walkways)
- Video Management Systems (VMS), including Intelligent Visual Analytics where operationally beneficial
- Additional Airport systems identified during implementation

The Solution Provider shall recommend the appropriate information exchanges for each system, including operational status, asset information, alarms, maintenance information, performance data, inspections, work activities, equipment condition, and other information necessary to support the approved use cases.

4.8 Dashboard and User Interface Development

The Solution Provider shall configure intuitive dashboards, spatial displays, operational views, reports, and user interfaces that provide authorized Authority personnel with timely access to relevant operational and maintenance information.

The Authority anticipates that different user groups will require different operational views. Accordingly, the Platform should support configurable dashboards appropriate for functions such as:

- Engineering
- Facilities Management
- Maintenance
- Operations
- Executive Management
- Information Technology
- Contractors and other authorized users, where applicable

Dashboards should present information in a clear and intuitive manner using maps, floor plans, asset locations, equipment status, alarms, work activities, trends, key performance indicators (KPIs), and other graphical representations appropriate to each use case.

The Solution Provider shall configure dashboard capabilities using standard platform functionality wherever practical to facilitate future enhancements without extensive software development.

4.9 Workflow Configuration

The Authority desires to improve the efficiency of maintenance and operational processes through configurable digital workflows.

Accordingly, the Solution Provider shall configure workflows that support the approved implementation objectives and integrate with existing the Authority business processes where appropriate.

Examples of configurable workflows may include:

- Preventive maintenance

- Corrective maintenance
- Work request management
- Work order coordination
- Asset inspections
- Asset condition assessments
- Equipment outage coordination
- Operational notifications
- Maintenance approvals
- Task assignments
- Follow-up activities
- Performance monitoring

Workflow configuration should emphasize graphical configuration tools, configurable business rules, forms, notifications, and workflow engines provided by the selected Digital Twin Platform rather than custom software development.

4.10 Initial Use Case Development

Rather than attempting to implement every possible Digital Twin capability during the initial deployment, the Solution Provider shall develop an initial set of practical, high-value operational use cases.

The initial implementation is expected to focus on improving terminal and airfield maintenance and asset management through configurable Digital Twin capabilities.

Representative initial use cases may include:

- Terminal asset performance monitoring
- Airfield asset performance monitoring
- Preventive maintenance planning
- Corrective maintenance coordination
- HVAC system operational awareness

- Passenger Boarding Bridge status monitoring
- Baggage Handling System operational status
- Vertical Transportation monitoring
- Maintenance work order visualization
- Equipment condition monitoring
- Asset performance trending
- Alarm visualization
- Operational dashboard development
- Maintenance workflow optimization
- Executive performance dashboards

The Solution Provider may recommend additional use cases that provide measurable operational value and align with the Authority's implementation objectives.

4.11 Training and Knowledge Transfer

The Solution Provider shall provide training and knowledge transfer services necessary to support successful adoption of the Airport Digital Twin Platform.

Training should be tailored to the needs of different user groups and may include:

- System administrators
- Engineering personnel
- Maintenance personnel
- Facilities Management
- Operations personnel
- Information Technology staff
- Executive users

Training shall emphasize the effective use of the configured Platform, dashboards, workflows, AI-powered analytics, reporting capabilities, and administrative functions.

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The Solution Provider shall also provide sufficient knowledge transfer to enable Airport personnel to perform routine system administration, user management, dashboard modifications, and other routine configuration activities appropriate to their responsibilities.

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5. FUNCTIONAL REQUIREMENTS

The Airport Digital Twin Platform shall provide the functional capabilities necessary to support the Authority's initial implementation objectives while providing a scalable foundation for future expansion. Unless otherwise approved by the Authority, the Platform should utilize commercially supported functionality and configurable capabilities rather than custom-developed software.

5.1 Airport Digital Twin Platform

The Solution Provider shall configure an Airport Digital Twin Platform that provides a unified operational environment for integrating, visualizing, managing, and analyzing information from multiple Airport systems.

The Platform shall support:

- Enterprise asset visualization
- Spatially enabled asset management
- Interactive dashboards
- Role-based user interfaces
- Workflow management
- Operational and maintenance analytics
- Configurable reports
- Notifications and alerts
- Integration with existing Airport systems
- Expansion through future use cases

The Platform shall support both desktop and web-based access and should support mobile access where appropriate.

5.2 Spatial Information Management

The Platform shall support the integration and visualization of available Airport spatial information.

Where available, the Platform should be capable of incorporating:

- Geographic Information System (GIS) data
- Computer-Aided Design (CAD) drawings
- Building Information Modeling (BIM)
- LiDAR with draped imagery datasets
- Floor plans
- Utility drawings
- Engineering drawings
- Equipment layouts
- Asset locations
- O&M manuals
- Technical documentation
- Asset Imagery (e.g., photos, videos)
- CCTV feeds and video analytics
- Other available engineering and facilities information

The Solution Provider shall recommend practical methods for organizing, maintaining, and presenting this information in support of Airport operations and maintenance.

The Platform shall not require every information source to exist before implementation. The Solution Provider shall leverage available information and provide recommendations for incorporating additional information as it becomes available.

5.3 Asset Management

The Platform shall support improved management of Airport assets throughout their operational lifecycle.

Capabilities should include:

- Asset identification
- Asset location

- Asset attributes
- Asset relationships
- Equipment status
- Asset condition
- Asset history
- Inspection information
- Maintenance history
- Performance trends
- Lifecycle information

The Platform should present asset information within its spatial and operational context to improve understanding of equipment relationships and operational dependencies.

5.4 CMMS / Enterprise Asset Management Integration

Integration with the Authority's Computerized Maintenance Management System (CMMS) / Enterprise Asset Management (EAM) solution is considered a foundational capability of the initial implementation.

The Airport Digital Twin Platform shall be capable of presenting relevant maintenance information from the CMMS/EAM system within a common operational environment.

Examples include:

- Work requests
- Work orders
- Preventive maintenance activities
- Corrective maintenance activities
- Asset records
- Maintenance schedules
- Inspection activities
- Maintenance history

- Labor assignments
- Equipment status
- Asset condition
- Associated documentation

The Airport Digital Twin Platform shall complement the CMMS/EAM solution and shall not replace its core maintenance management functionality.

5.5 Airport Systems Integration

The Platform shall support integration with selected airport systems to improve operational awareness and maintenance effectiveness.

Initial implementation is expected to emphasize systems such as:

- Vertical Transportation Systems
- Passenger Boarding Bridge Systems
- Baggage Handling Systems
- HVAC Systems

The Solution Provider shall recommend the operational information most beneficial to each integration, including:

- Equipment status
- Operational state
- Alarms
- Fault conditions
- Equipment availability
- Performance metrics
- Operational events
- Maintenance indicators
- Energy consumption, where applicable
- Other operational information supporting approved use cases

5.6 Dashboards, Visualization, and User Experience

The Airport Digital Twin Platform shall provide configurable dashboards and visualizations that present operational and maintenance information in a clear, intuitive, and role-based manner.

The Platform should support multiple presentation methods, including:

- Interactive maps
- Floor plans
- Asset locations
- Equipment status indicators
- Color-coded operational conditions
- Charts and graphs
- Trend analysis
- Key Performance Indicators (KPIs)
- Alarm summaries
- Maintenance status
- Work activity summaries

Dashboards shall be configurable to support the operational needs of Engineering, Facilities Maintenance, Operations, Leasing and Concessions, Executives, and other authorized airport personnel.

5.7 Artificial Intelligence and Analytics

The Authority desires a Platform capable of leveraging Artificial Intelligence (AI) and advanced analytics where such capabilities provide measurable operational value.

Examples may include:

- Predictive maintenance
- Asset performance analysis

- Failure trend analysis
- Intelligent alarm prioritization
- Operational pattern recognition
- Workflow recommendations
- Capacity analysis
- Equipment performance optimization
- Executive decision support
- Natural language querying and reporting, where supported by the selected platform

The Solution Provider shall recommend practical AI capabilities appropriate for the Authority's operational environment and implementation priorities.

5.8 Workflow Management

The Platform shall support configurable workflows that improve maintenance and operational efficiency.

Workflow capabilities should support:

- Preventive maintenance
- Corrective maintenance
- Work order coordination
- Inspection management
- Asset condition assessments
- Notification management
- Task assignments
- Approval processes
- Escalation procedures
- Operational coordination
- Follow-up actions

Workflow configuration should utilize standard platform capabilities and graphical configuration tools wherever practical.

5.9 Security and User Administration

The Platform shall provide role-based security appropriate for Airport operations.

Capabilities should include:

- User authentication
- Role-based authorization
- Administrative controls
- Audit logging
- User activity tracking
- Secure integration with existing enterprise identity services where applicable

The Solution Provider shall configure security appropriate to the approved implementation scope.

5.10 Scalability and Future Expansion

The Airport Digital Twin Platform shall be designed to support continued expansion of the Authority's Airport Digital Twin Ecosystem beyond the initial implementation.

The Platform should support:

- Additional Airport systems
- Additional facilities
- Additional terminals
- Additional assets
- New dashboards
- New workflows
- Additional analytics
- Additional operational use cases

- Emerging technologies
- Future Airport initiatives

The Solution Provider shall recommend an implementation approach that provides immediate operational value while supporting the Authority's long-term Digital Twin vision.

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6. EXISTING AIRPORT SYSTEM INTERFACES

6.1 General

The Airport Digital Twin Platform shall integrate, visualize, organize, and present information from selected Airport systems to improve asset management, facilities maintenance, operational awareness, and decision support.

The Authority recognizes that the availability, quality, and accessibility of information may vary among existing systems. Accordingly, the Solution Provider shall evaluate each approved interface and recommend the most appropriate integration approach based upon the operational objectives, available system capabilities, and long-term maintainability.

Existing Airport systems shall remain the authoritative systems of record. The Airport Digital Twin Platform shall complement these systems by providing a common operational environment that improves the accessibility, visualization, correlation, and analysis of information across multiple systems.

6.2 Computerized Maintenance Management System (CMMS) / Enterprise Asset Management (EAM)

The Authority's Computerized Maintenance Management System (CMMS) / Enterprise Asset Management (EAM) solution is expected to serve as one of the foundational information sources for the Airport Digital Twin Platform.

The Solution Provider shall configure the Platform to present relevant maintenance and asset information within the Digital Twin environment, including, where available:

- Asset records
- Asset hierarchies
- Equipment locations
- Work requests
- Work orders
- Preventive maintenance activities
- Corrective maintenance activities
- Inspection records

- Maintenance history
- Asset condition
- Equipment availability
- Associated documentation
- Other maintenance information supporting approved use cases

The Digital Twin Platform shall complement the CMMS/EAM by providing enhanced visualization, analytics, and operational context rather than duplicating maintenance management functions.

6.3 Building Automation Systems (BAS/BMS) and HVAC

The Solution Provider shall evaluate integration opportunities with the Authority's Building Automation System (BAS/BMS) and Heating, Ventilation, and Air Conditioning (HVAC) systems.

The objective of this integration is to improve operational awareness, equipment monitoring, maintenance planning, and asset performance rather than replace the BAS/BMS control system.

Information may include:

- Equipment operational status
- Equipment health
- Alarm conditions
- Environmental conditions
- Energy performance
- Runtime information
- Equipment availability
- Maintenance indicators
- Fault conditions
- Other operational information that supports the approved use cases

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6.4 Passenger Boarding Bridge (PBB) Systems

The Solution Provider shall evaluate integration with Passenger Boarding Bridge systems to improve operational visibility and maintenance effectiveness.

Representative information may include:

- Bridge operational status
- Equipment availability
- Bridge assignments
- Alarm conditions
- Maintenance activities
- Equipment faults
- Performance indicators
- Asset history
- Inspection activities

The Digital Twin Platform shall provide operational context that assists maintenance personnel in identifying, understanding, and responding to equipment issues.

6.5 Baggage Handling Systems (BHS)

The Solution Provider shall evaluate integration with the Authority's Baggage Handling System to improve operational awareness and maintenance planning.

Representative information may include:

- Equipment status
- Conveyor status
- Alarm conditions
- Equipment faults
- Maintenance activities
- Equipment performance
- Operational events

- Asset condition
- Performance trends

The objective is to improve visibility into baggage system operations while supporting proactive maintenance activities.

6.6 Vertical Transportation Systems

The Solution Provider shall evaluate integration with elevators, escalators, and moving walkways.

Representative information may include:

- Equipment operational status
- Equipment availability
- Alarm conditions
- Fault conditions
- Inspection activities
- Maintenance history
- Operational performance
- Asset condition
- Service interruptions

This information should be presented within the Airport Digital Twin Platform to improve maintenance coordination and equipment availability.

6.7 Additional Airport Systems

The Solution Provider may recommend additional system integrations that provide measurable operational value.

Examples may include:

- Video Management Systems
- Security Systems

- Fire Alarm Systems
- Electrical Monitoring Systems
- Utility Monitoring Systems
- Passenger Information Systems
- Flight Information Systems
- Energy Management Systems
- Future Airport technology systems

The Authority reserves the right to modify implementation priorities based upon operational needs, available funding, and project schedule.

6.9 Representative Existing Airport Systems

The following table identifies representative Airport systems currently identified by the Authority as potential candidates for integration with the Airport Digital Twin Platform. The table is provided to assist proposers in understanding the existing technology environment. The final integration scope, priorities, and implementation sequence shall be determined collaboratively between the Authority and the selected Solution Provider during project initiation.

Existing System	System Type / Primary Function	Current Connectivity
Genetec Security Desk	Camera / Video Management System	Secure Network
Acuity SensorSwitch	Terminal Lighting Control	Not Connected
Allen-Bradley	Baggage Handling System Controls	Not Connected
Allen-Bradley	Passenger Boarding Bridge Controls	Not Connected
Simplify i3	Work Order Management, Safety Management	Cloud

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	System, Inspections, Partial Asset Management	
PMX	Real Estate, Leasing, Partial Asset Management	Internal Network
Schneider EcoStruxure	Building Management System (BMS)	Internal Network
Skidata	Parking Management System	Internal Network
Microsoft 365 Business Central	Financial / Accounting System	Cloud
Generator Monitoring Systems (CAT/Genetec/etc.)	Emergency Power Monitoring	Not Connected

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7. Implementation Deliverables

The Solution Provider shall provide all deliverables necessary to successfully configure, implement, deploy, and support the Airport Digital Twin Platform.

Deliverables shall include, at a minimum:

7.1 Implementation Deliverables

- Approved Project Implementation Plan
- Configured Digital Twin Platform
- Configured object models
- Configured dashboards
- Configured workflows
- Configured reports
- Configured business rules
- Approved system integrations
- Security configuration
- User acceptance support

7.2 Documentation

The Solution Provider shall provide concise implementation documentation sufficient to support system administration, future enhancements, and knowledge transfer.

Documentation should emphasize practical operation and maintenance rather than extensive narrative reports.

Documentation may include:

- Configuration documentation
- Integration documentation
- Administrative procedures
- User guidance
- System architecture diagrams

- Interface documentation
- Training materials

7.3 Training

The Solution Provider shall provide training appropriate for:

- System Administrators
- Engineering
- Facilities Management
- Maintenance
- Operations
- Information Technology
- Executive users

7.4 Ongoing Enhancement & Sustainment Services

Recognizing that the Airport Digital Twin Platform will continue evolving after initial implementation, the Solution Provider shall be capable of providing ongoing professional services including:

- Additional dashboards
- Additional workflows
- Additional system integrations
- Additional operational use cases
- AI-powered analytics improvements
- Performance optimization
- User interface enhancements
- Platform configuration updates
- Spatial data additions/updates (e.g., floorplans, basemaps, asset mapping)

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- Advanced technical support
- Knowledge transfer
- Continuous improvement services including Digital Twin roadmap planning and technology advisory services

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