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ARIS/AV® aerial-view display

View aircraft parking positions on an airport aerial view

The ARIS/AV aerial-view display shows up-to-the-minute aircraft-parking position information on a scaled aerial-view layout of the airport, with aircraft positioned at assigned gates, stands, and remote parking areas.

Each aircraft appears as a scaled representation of its aircraft type and moves in synchronization with flight status information entered and stored in the ARIS/SmartBase® database by the ARIS/GM® gate manager, the ARIS/SB® schedule builder, and external systems, such as flight-following systems.

You can toggle between the ARIS/AV aerial-view display and the ARIS/GM gate manager GateChart screen on the same monitor or you can display the ARIS/AV aerial-view display and the ARIS/GM gate manager GateChart screen simultaneously on side-by-side monitors.

You can select a past or future day for which flight schedule information and aircraft parking position assignments are stored in the ARIS/SmartBase database, and the ARIS/AV aerial-view display shows aircraft parking positions as they were or as they are scheduled to be.

Representative features

Parking positions are available at a glance. The ARIS/AV aerial-view display shows a bird's-eye view of the airport with outlines of buildings, terminals, cargo facilities, and maintenance areas. It shows parking position lines, curves, and labels, making it easy to identify parking positions far from terminal buildings.

Accurately scaled aircraft drawings provide important information. The ARIS/AV aerial-view display shows outlines of aircraft, based on scaled engineering diagrams supplied by aircraft manufacturers, with inter-wing distances and clearances.

Multiple aircraft alignments and nose positions supported for each parking position. For many parking positions, a narrow-body aircraft follows one alignment, while a wide-body aircraft uses a different alignment. The ARIS/AV aerial-view display shows the various alignments and nose-in and nose-out positions.

Aircraft and flight details are available at a sweep of the mouse. When you position your mouse over an aircraft outline, the ARIS/AV aerial-view display shows information about the aircraft and about the flights assigned to the aircraft. Graphical indicators show taxiing and boarding status, constraint violations, inoperative conditions at gates, and other information.

Manual aircraft parking positioning. You can drag aircraft outlines to move aircraft to different parking positions and view associated penalty ratings.

Multiple time horizon support. The ARIS/AV aerial-view display can show an aerial view of the airport as it is, as it was in the past, and as it could be in the future.

Reports

You can print hardcopies of the ARIS/AV aerial-view display screen.

The ARIS/AV aerial-view display stores information in the ARIS/SmartBase database, which runs on the Oracle® database. We can create reports for you, and you can create your own reports from a synchronized reporting database using Oracle-compatible report-generator tools, without interfering with the integrity or performance of the ARIS/SmartBase database.

Ways we can help you

Advisory and consulting services. We provide unbiased advice about resource allocation, optimization, planning, scheduling, management, and deployment methodologies; develop cost-benefit analyses; analyze business processes; manage projects; gather and document technical requirements; develop functional specifications; and specify hardware, software, and devices.

Project management services. Our project management team works closely with you, following our time-proven delivery methodology, and uses face-to-face meetings, teleconferences, web conferences, and email exchanges to keep you informed every step of the way. We believe careful project management is the key to successful on-time and on-budget deliveries of SmartAirline Operations Center and SmartAirport Operations Center products, services, and solutions.

Knowledge engineering services. Knowledge engineering is the process of identifying your business knowledge—the business rules, policies, procedures, preferences, and requirements that guide the way your organization operates—and then codifying your business knowledge in the knowledge base at the heart of SmartAirline Operations Center and SmartAirport Operations Center solutions. The business knowledge in the knowledge base determines how the solutions behave. Our knowledge engineers work with you to gather and enter the business knowledge that enables the solution to behave exactly the way you want it to.
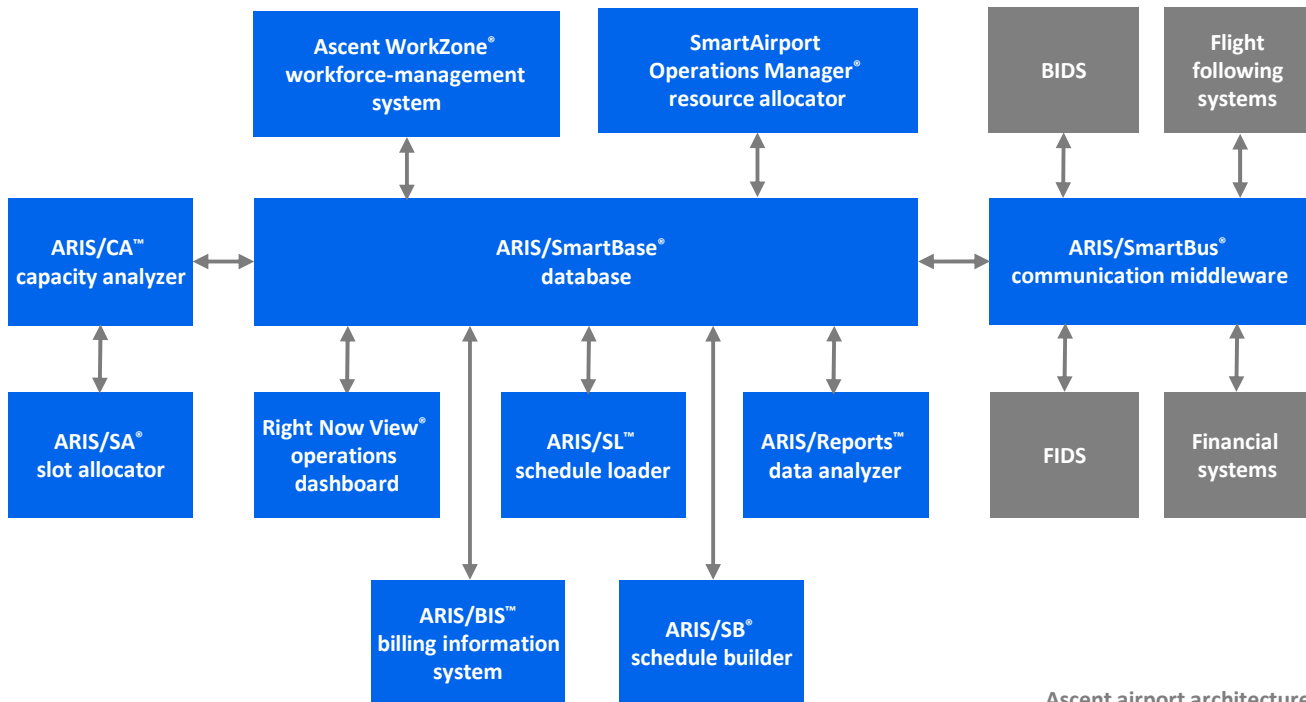
Who we are

Since our founding more than 30 years ago by members of the Massachusetts Institute of Technology Artificial Intelligence Laboratory, Ascent Technology has helped organizations deploy costly resources as efficiently, effectively, and economically as possible. Our highly trained and capable team of technologists, problem solvers, and solution designers has broad domain expertise and substantial experience in artificial intelligence, computer science and engineering, system design, mathematical optimization, operations research, and resource optimization, planning, scheduling, and management.

Implementation, integration, and installation services. Our implementation team provides system integration and testing services; develops product extensions, enhancements, and connectivity software for importing data to and exporting data from external systems; and creates reports. The team also configures, installs, and tests hardware, software, and equipment for you when you choose to integrate the SmartAirline Operations Center or SmartAirport Operations Center solutions in your IT environment, and quickly sets up an environment in our hosting center for you when you choose to gain access to the solutions over the web.

Training services. We provide a wide range of user, administrator, trainer, and refresher training classes in person at your location, at our Cambridge, MA, headquarters, and remotely over the web. We also provide operational training services in person and remotely when you begin to use the SmartAirline Operations Center or SmartAirport Operations Center solutions in production.

Maintenance and support services. We offer Standard Support Services Monday through Friday during our normal office hours in Cambridge, MA, and Premium Support Services around the clock. Both provide comprehensive remote user support services via telephone, email, and Internet, as well as software maintenance, such as product updates, patches, and releases. We provide a web-enabled support portal that enables you to ask questions and receive responses, request service, report problems, and track issues.

More information

To learn more about how Ascent Technology solutions can help you optimize your resources to greatest advantage and to schedule a demonstration of our products, send email to sales@ascent.com or call our Sales and Marketing department at +1.617.395.4800.

Ascent airport architecture

Technology Platform

You can gain access to the SmartAirline Operations Center or SmartAirport Operations Center solutions in two ways: you can integrate the solution into your own IT environment, or you can gain access over the Internet to the solution running on Amazon Web Services (AWS) platform.

Ascent Technology Products	Your own IT environment			Amazon Web Services (AWS) platform
	Server: Microsoft® Windows® Server™ 2012 or 2016 operating system or Red Hat® Enterprise Linux 7; if virtualized, our solutions are certified to run on VMware® server virtualization products Database: Oracle 12C SE2 Desktop: Windows 7, 8 or 10 with 4GB of RAM Browser: Microsoft Internet Explorer 11, Microsoft Edge, latest Google Chrome or Mozilla Firefox Minimum internet access for remote support: 512 kbps			Browser: Microsoft Internet Explorer 11, Microsoft Edge, latest Google Chrome or Mozilla Firefox; Internet connection (1 Mbps or better)
	Server	Client desktop	Web browser	
ARIS/AV® aerial-view display	✓		✓	✓
ARIS/AR® aircraft-routing system	✓	✓		
ARIS/SmartBase® database (including Resource Editors)	✓			
ARIS/BB® baggage-belt allocator	✓	✓		✓
ARIS/BIS™ billing information system	✓		✓	✓
ARIS/CI® check-in counter allocator		✓		✓*
ARIS/CX® crew-connection analyzer			✓	✓
ARIS/GateView® real-time display	✓	✓		✓
ARIS/GM® gate manager		✓*		✓*
Right Now View® operations dashboard	✓		✓	✓
ARIS/PX® passenger-connection analyzer	✓		✓	✓
ARIS/Reports™ data analyzer	✓		✓	✓
ARIS/SB® schedule builder	✓	✓	✓	✓
ARIS/SL™ schedule loader	✓		✓	
ARIS/SmartBus® communication middleware	✓			
ARIS/SP® stand planner		✓*		✓*
SmartAirline/SmartAirport Capacity Analyzer strategic planner	✓		✓*	✓*

Ascent WorkZone® workforce management system	✓	✓*	1200x768 minimum resolution for ARIS/WorkNet® bid and trade manager

*Minimum display resolution (pixels): 1600 x 1200