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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-management system, the ARIS/SB® schedule builder, and external systems, such as flight-following systems and sources of positional data.

You can switch between the ARIS/AV aerial-view display and the ARIS/GM gate-management system GateChart screen on the same monitor or you can display the ARIS/AV aerial-view display and the GateChart screen simultaneously on multiple 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.

Who we are

Since our founding more than 35 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.

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 pointer. When you position your pointer 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 in real time, as it was in the past, and as it could be in the future.

Collaborative decision-making. The ARIS/AV aerial-view display supports team decision-making, ensuring all users share a consistent current view of operations. You can discuss possible solutions with other users before you commit to changes.

Web-enabled for cost-effective rapid and wide deployment. You gain access to the ARIS/AV aerial-view display through Ascent's From Touchdown to Takeoff® cloud-hosted service, a secure, highly-available, and readily-expandable platform. When you subscribe to the service, you can gain access Ascent's entire suite of products, including the ARIS/AV aerial-view display, using a standard browser directly from your network without any need to install, maintain, and support on-premise hardware and software. We can readily adjust available computing power to meet your organization's changing needs, and you can easily expand your solution to accommodate additional users and to manage additional resources, facilities, and locations.

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 Ascent Technology's SmartAirline Operations Center™ solution and SmartAirport Operations Center™ solution.

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 solution and SmartAirport Operations Center solution. 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.
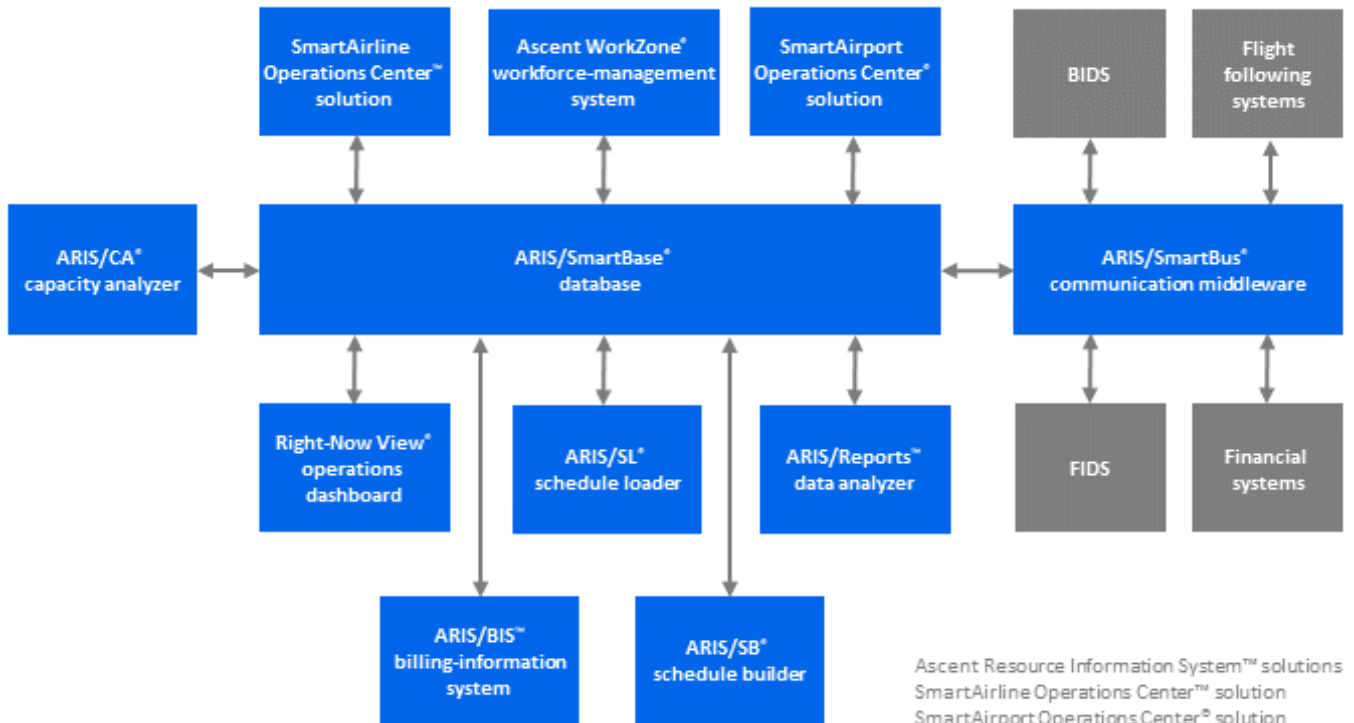
Implementation, integration, and installation services. Our implementation team provides system integration and testing services; develops product extensions, enhancements, and connectivity software for importing data to and exporting data from external systems; and creates reports. Our implementation team is also responsible for setting up an environment, customized to meet your organization's needs, and monitoring its performance, in our secure hosting center.

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

Maintenance and support services. We offer premium support services for the SmartAirline Operations Center solution and the SmartAirport Operations Center solution around the clock. We provide comprehensive remote user support services via telephone, email, web conferences, and Internet, as well as software maintenance, such as product updates, patches, and releases. Our customer support community portal and ticket system enable you to ask questions and receive responses, request service, report problems, and track issues day and night

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.

SmartAirline Operations Center™ solution

Ascent WorkZone® workforce-management system

SmartAirport Operations Center® solution

BIDS

Flight following systems

ARIS/CA® capacity analyzer

ARIS/SmartBase® database

ARIS/SmartBus® communication middleware

Right-Now View® operations dashboard

ARIS/SL® schedule loader

ARIS/Reports™ data analyzer

FIDS

Financial systems

ARIS/BIS™ billing-information system

ARIS/SB® schedule builder

Ascent Resource Information System™ solutions
SmartAirline Operations Center™ solution
SmartAirport Operations Center® solution

Ascent Technology's From Touchdown to Takeoff Cloud-Hosted Service

You gain access to the Ascent Resource Information System solutions in the SmartAirline Operations Center solution and in the SmartAirport Operations Center solution over the Internet, using a standard web browser.

Ascent Resource Information System solutions SmartAirline Operations Center solution SmartAirport Operations Center solution	From Touchdown to Takeoff cloud-hosted service Browser support: Google Chrome, Microsoft Edge, and Mozilla Firefox Minimum Internet connection speed: 5 Mbps Minimum resolution: Full HD (FHD)
ARIS/AV® aerial-view display	✓
ARIS/BB® baggage-belt allocator	✓
ARIS/BIS™ billing-information system	✓
ARIS/CA® capacity analyzer	✓
ARIS/CI® check-in counter allocator (with ARIS/IQ® queue manager)	✓
ARIS/FW® flight watcher	✓
ARIS/GateView® real-time display	✓
ARIS/GM® gate manager	✓
ARIS/Reports™ data analyzer	✓
ARIS/SB® schedule builder (with ARIS/LegGen® flight-leg generator)	✓
ARIS/SL® schedule loader	✓
ARIS/SmartBase® database (with Resource Editor tools)	✓
ARIS/SmartBus® communication middleware	✓
ARIS/SP® stand planner	✓
Ascent WorkZone® workforce manager	✓
ARIS/WorkModel® workload generator	✓
ARIS/WorkNet® bid and trade manager	✓ *
ARIS/WorkOptimize® work-period generator	✓
ARIS/WorkPlan® work-schedule generator	✓
ARIS/WorkRelay® task and attendance monitor	✓
ARIS/WorkTime® workday manager	✓
Right-Now View® operations dashboard	✓
ARIS/CX® crew-connection analyzer	✓
ARIS/FR® flight-readiness display	✓
ARIS/PX® passenger-connection analyzer	✓
ARIS/TE® tug-equipment assigner	✓
Gate Chart Display™ tool	✓
Stand Assignment Optimizer™ tool	✓

* Minimum requirements: 512 Kbps Internet connection speed and SXGA resolution