ASCENT
TECHNOLOGY, INC.

SmartAirport Capacity Analyzer® strategic planner

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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.

The SmartAirport Capacity Analyzer strategic planner enables you to visualize your future operations, so you can ensure you will have the facilities you need and so you can use those facilities to their fullest potential.

The ARIS/CA® capacity analyzer tool enables you to study scenarios about how your airports might operate in the future, analyze how you might operate under the scenarios using alternative flight schedules, and create a resource-allocation plan for each scenario that identifies how to use your resources and capacity to greatest advantage.

With the SmartAirport Capacity Analyzer strategic planner, you can:

- Create capacity-utilization projections that show how you would handle proposed flight schedules given the capacity of your runways, gates, stands, remote parking positions

- Determine how changing the capacity of your runways, gates, stands, remote parking positions affects your ability to accommodate flights

- Determine which combinations of flight schedules and resources are possible and which combinations are most advantageous

- Examine your resource capacity for any future date to determine which physical changes to make sooner and which to make later

- Identify physical changes to resources that are most likely to meet customizable goals, such as higher profitability

Because it provides both long-range schedule planning and dynamic response to requests by carriers to change their schedules, the SmartAirport Capacity Analyzer strategic planner enables you to plan as you run your airports, and to run your airports as you planned.

The SmartAirport Capacity Analyzer strategic planner can handle every airport, large or small. It can be deployed for use by a few users or by many users, both singly and concurrently.
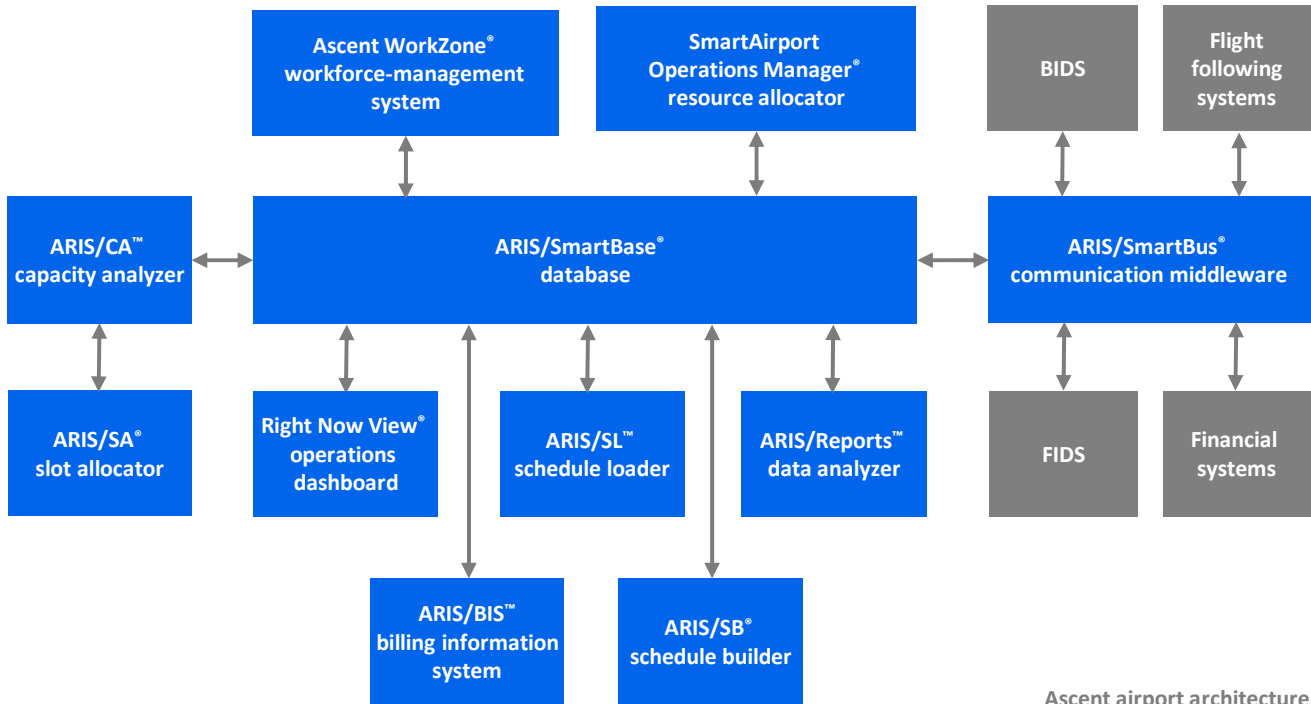
The ARIS/SmartBase® database is the resource, planning, and operations data and knowledge base, flight-schedule server, and communications server for all SmartAirport Operations Center tools. It contains comprehensive, consistent, and accurate information about resources, plans, schedules, and operations. It also contains flexible, user-specified business rules that control the decision-making logic for the creation of resource-allocation plans and scenarios, models of future operations, operational schedules, and real-time responses to irregular operations and other unplanned events. It maintains accurate and secure records of the plans and day-of-operation activities it manages, providing the data needed to produce reports, to generate invoices, and to perform analyses.

The ARIS/SmartBase database ensures that all users have access to the same up-to-the-minute information about scheduled and actual operations at the same time. By accessing and sharing valuable information stored in the ARIS/SmartBase database, users can work collaboratively to make better decisions.

The ARIS/SmartBase database environment is further enriched by its ability to transfer information seamlessly to and from a wide range of data sources, systems, and applications beyond the SmartAirport Operations Center solution, in combination with the ARIS/SmartBus communication middleware.

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 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			Amazon Web Services (AWS) platform 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