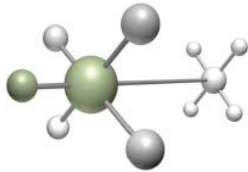

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ARIS/SB[®] schedule builder



Create, view, edit, and distribute schedule and day-of-operation flight information

The ARIS/SB schedule builder enables you to create, view, edit, and distribute the schedule and day-of-operation flight information that drives your resource allocation decisions and your operations.

Manipulate long-term flight schedules

- Create flight schedules using flight schedule information entered manually or automatically by means of SMA files and IATA SSIM Chapter 7-compliant schedule files provided by external systems
- Correct typical errors, such as incorrect spacing, in SMA files and IATA SSIM Chapter 7-compliant schedule files automatically
- Analyze, update, and manipulate flight schedule information from a single screen, keeping the schedule in the original IATA SSIM Chapter 7-compliant format with start and end days, days of operation, and frequency, even for flights that operate in the near future
- Search and sort flight schedule information by schedule, airline, aircraft type, and flight number and print the result of your search
- Store updated flight schedule information in the ARIS/SmartBase[®] database, which provides accurate flight schedule information to coordinated ARIS[®] tools and external systems.

Unroll schedule flight legs

- Unroll flight schedule information into individual flight leg records for each day of the schedule
- Link flight arrivals and departures based on schedule turn information or by using an intelligent arrival departure flight matcher
- Identify and correct errors in flight schedules, such as schedule records that create identical flights

Who we are

Since our founding 25 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.

- Revise information associated with recently created flights to reflect schedule record changes, automatically
- Unroll items related to schedules, such as routine maintenance records for stands
- Archive flight records in and delete flight records from the ARIS/SmartBase database in accordance with your data retention policies.

Edit day-of-operation flight information

- Search and sort flight schedule information using a variety of attributes, such as airline, aircraft type, origin, and partial flight information
- Edit real-time flight information and update information about events such as delays, diversions, new service, and cancellations
- Store updated day-of-operation flight information in the ARIS/SmartBase database, which provides accurate day-of-operation flight information to coordinated tools and external systems.

Ensure accurate and consistent flight schedule and day-of-operation flight information

The ARIS/SB schedule builder is an easy to use graphical interface for flight-schedule and day-of-operation flight information entry, display, analysis, and distribution.

You can upload information automatically from different sources and industry-standard formats; the flight schedule is then available for retrieval as consistent records in the IATA Chapter 7 SSIM format. You can browse and query flight schedule, flight leg, and flight information stored in the ARIS/SmartBase database. Preference tabs make it easy to change the way information is presented.

The ARIS/SB schedule builder greatly reduces manual data entry as well as the data entry errors that often result from entering data manually. Manual data entry is simple, with user-friendly screens and popup menus with instructions to guide you. Errors are flagged, such as when you enter a flight departure time that is earlier than the arrival time.

The ARIS/SB schedule builder flight-leg generator bridges the gap between long term flight-schedule and day-of-operation flight information. The tool automatically gathers information from the ARIS/SmartBase database needed to convert schedule records into actual flight legs. It links arrivals and departures automatically, archives old flights, and converts local schedule times to GMT accurately even through daylight savings time changes. Although the flight-leg generator runs silently every night, you can also start it manually for planning purposes.

The ARIS/SB schedule builder also enables you to manage flight-schedule information. For example, to update the record for a flight that has been delayed, you simply select and edit the arrival time, and then click on the update button to update the flight record. The updated information is available to all ARIS® products, FIDS, BIDS, and other external systems.

The ARIS/SB schedule builder ensures your flight-schedule information and your day-of-operation flight information are consistent and accurate, thereby preventing data errors that could lead to costly resource-allocation mistakes. By providing accurate, up-to-date flight-schedule and day-of-operation flight information throughout your organization, the ARIS/SB schedule builder improves collaborative decision-making and organizational effectiveness by ensuring everyone has access to the same information.

Typically, planners use the ARIS/SB schedule builder to manage current and future airport-specific flight schedules, to perform analyses, to print reports, and to view new carrier service. The ARIS/SB schedule builder automatically unrolls flight information for the next few days, and then distributes the flight-leg records to the day-of-operation tools. On the day of operation, airport control room workers enter flight-related information into the ARIS/SB schedule builder as it becomes available. Also on the day of operation, workers throughout the airport use the ARIS/SB schedule builder to view the status of the flights for which they are responsible and to enter updated information about those flights into the system.

Representative features

Detailed flight schedule and day-of-operation flight information is available with a click of a mouse. The ARIS/SB schedule builder provides an easy-to-use, mouse-driven graphical user interface. An innovative display scheme enables you to organize information by expanding or contracting the amount of detail shown. Contextual menus, help wizards, and fill-in-the-blanks panels simplify manual data entry.

A single interface manipulates flight schedule information. The ARIS/SB schedule builder can create arrivals, departures, and turns; search flight schedules by airline code, origin, destination, aircraft type, and flight; handle code shares and preferred parking assignments; and print schedules and portions of schedules from a single user interface. It enables you to load and edit code share schedules.

A single interface creates, cancels, diverts, returns, and links flights. The ARIS/SB schedule builder provides tools to manipulate day-of-operation flight information from a single user interface.

Automatic conversion of flight schedule information into day-of-operation flight information. The ARIS/SB schedule builder analyzes consolidated flight schedules, creates unrolled flight schedules for specific days of operation, and identifies and automatically creates flight-leg pairs that are linked as turns. It automatically corrects formatting errors, such as invalid spacing, in records. It can unroll flight schedules far into the future and correct unrolled flight schedules when the schedule records change.

Up-to-the-minute view of flight schedule and day-of-operation flight information. The ARIS/SB schedule builder automatically updates information periodically, combining information entered manually with information received from automated feeds so everyone has timely access to identical information.

Graphical display of current operations statistics in real time. The ARIS/SB schedule builder displays graphs of key operations information, so you can see the status of your operations at a glance.

Multi-user access. Changes made by one user are seen by all other users within a few seconds.

User access control. You can control which users have access to specific functionality, so each user sees only what is permitted. You can provide filtered views of the ARIS/SB schedule builder to others, while protecting your internal business information.



Customizable user interface. You can customize the way the ARIS/SB schedule builder graphical user interface displays information to fit the way you prefer to work.

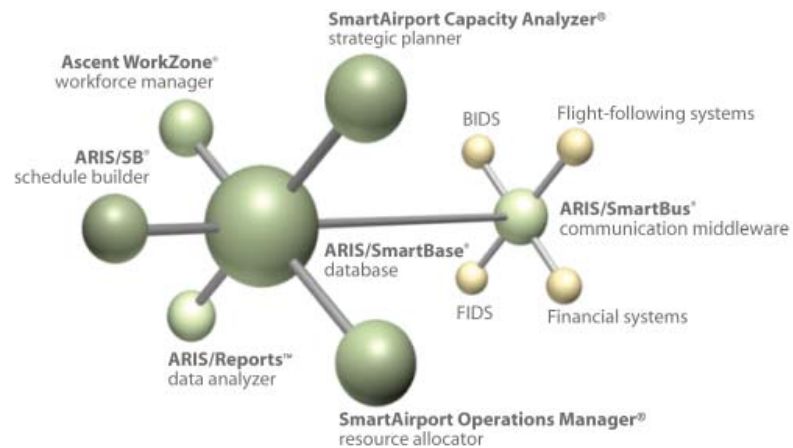
Web-enabled for cost-effective rapid and wide deployment. You can gain access to the ARIS/SB schedule builder using a standard web browser, without installing the ARIS/SB schedule builder on your desktop. You can provide access to the ARIS/SB schedule builder through secure Internet links and local networks.

More information

To learn more about how the SmartAirline Operations Center or the SmartAirport Operations Center solutions can help you optimize your resources to greatest advantage, send email to sales@ascent.com or call our Sales and Marketing department at +1.617.395.4800.

Reports

The ARIS/SB schedule builder 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.



Ascent airport architecture

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.

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.

ARIS, ARIS/AR, ARIS/AV, ARIS/BB, ARIS/CI, ARIS/CX, ARIS/FW, ARIS/GateView, ARIS/GM, ARIS/IQ, ARIS/LegGen, ARIS/PX, ARIS/SA, ARIS/SB, ARIS/SE, ARIS/SmartBase, ARIS/SmartBus, ARIS/SP, ARIS/Tow Panel, ARIS/WorkModel, ARIS/WorkNet, ARIS/WorkOptimize, ARIS/WorkPlan, ARIS/WorkRelay, ARIS/WorkTime, Ascent Technology, Inc. (stylized), Ascent WorkZone, Ascent WorkZone (stylized), GateKeeper, SmartAirline, SmartAirline Capacity Analyzer (stylized), SmartAirline Operations Manager (stylized), SmartAirline WorkZone, SmartAirline WorkZone (stylized), SmartAirport, Smartairport.com, SmartAirport Capacity Analyzer, SmartAirport Capacity Analyzer (stylized), SmartAirport Information Manager, SmartAirport Information Manager (stylized), SmartAirport Operations, SmartAirport Operations Center, SmartAirport Operations Manager, SmartAirport Operations Manager (stylized), SmartAirport WorkZone, and SmartAirport WorkZone (stylized) are registered trademarks of Ascent Technology, Inc. ARIS/AR Display Board, ARIS/AR Turn Generator, ARIS/CA, ARIS/Reports, ARIS/SCR, Location editor, Reference editor, Resource editor, Rule editor, SmartAirline Capacity Analyzer, SmartAirline Operations Center, SmartAirline Operations Manager, User editor, Work schedule editor, and Worker editor are trademarks of Ascent Technology, Inc. This is not a complete list of all registered trademarks, trademarks, and service marks owned by Ascent Technology, Inc. Other company, product, and service names may be registered trademarks, trademarks, or service marks owned by other parties. Revised 01/2012.

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 solutions running in our IT environment in our hosting center.

Database server: A server that supports Oracle® Database Standard Edition

Compute and/or connectivity server: A server running Microsoft Windows Server® operating system or Linux® operating system; if virtualized, our solutions are certified to run on VMware® server virtualization products

Desktop: A PC running Microsoft Windows Vista®, Microsoft® Windows XP, or Microsoft® Windows 7 operating system; or some versions of the Linux operating system

