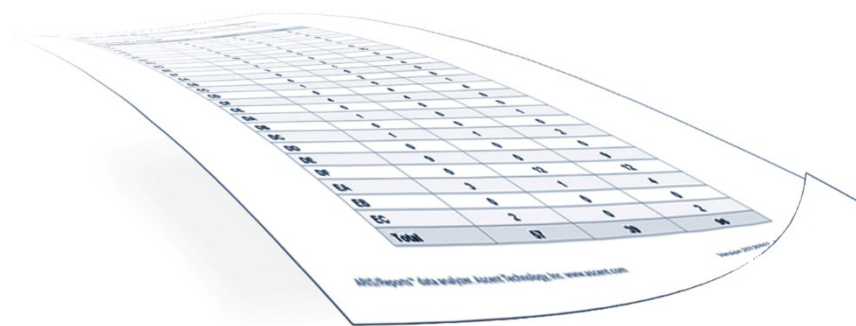

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The information you need, the way you want it

The ARIS/Reports data analyzer provides standard and customized reports that display plan, day-of-operation, and historical information entered and stored by the ARIS® products in the ARIS/SmartBase® database.

With the ARIS/Reports data analyzer, you can:

- Run reports that contain the information you want to see
- Analyze plan, day-of-operation, and historical information to identify trends
- Produce financial reports for billing and analysis
- Display and print reports automatically at the push of a button
- Schedule reports to run automatically at particular times
- Publish reports that have been run
- Communicate plan, day-of-operation, and historical information and satisfy organizational reporting requirements.

The ARIS/Reports data analyzer is easy to use. First, you gain access to the ARIS/Reports data analyzer from your web browser, and then select the report you want to view. Next, you set report parameters, such as the date range of the information you want the report to contain. The ARIS/Reports data analyzer creates the report and delivers it to you in HTML format through your web browser. Alternatively, the ARIS/Reports data analyzer can deliver the report as a Postscript® file that can be viewed through your browser's Postscript file viewer, saved, or printed.

Because the ARIS/Reports data analyzer transfers only the report itself, not the information behind the report, to your desktop, there are no transfers of large amounts of information to clog your network.

The ARIS/Reports data analyzer provides many standard reports based on information the ARIS products enter and store in the ARIS/SmartBase database. In addition, we can provide custom reports that meet your reporting requirements. Our knowledge of the ARIS/SmartBase database enables us to determine the best way to create your reports without affecting database performance.

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.

Representative Features

Maintains historic information archive. The ARIS/SmartBase database maintains a secure archive of historic planning and operations data, from which you can produce accurate and timely reports as well as define and analyze key performance metrics. You have the option of performing nightly updates of the archive or having real-time updates, thus providing immediate access to today's information for reporting. Careful database engineering ensures activities can extend across the midnight boundary into the next calendar day with no loss of information, possible confusion, or need to interrupt the applications. Using the scenario feature, you can reload the specific model that was active at the time the historical data were created.

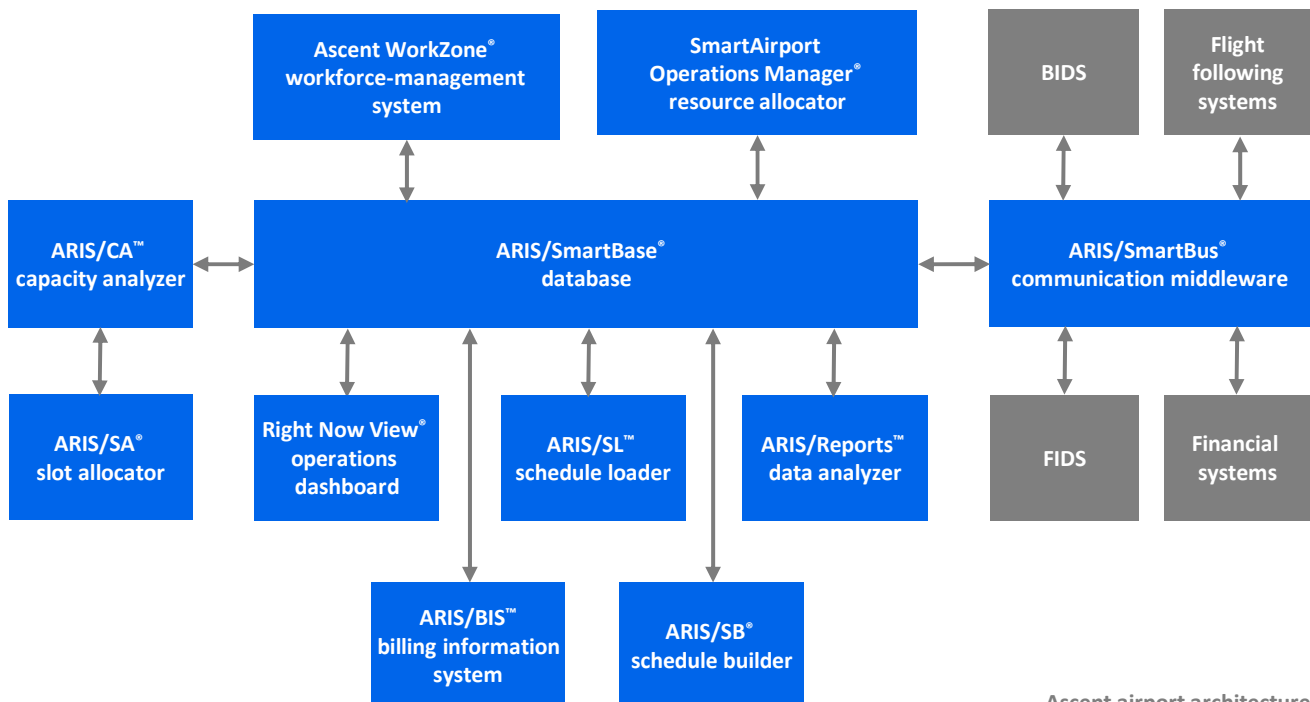
Provides secure access to reports. The ARIS/Reports data analyzer shows users only the reports they are authorized to see.

PDF output support. When you view your report in Postscript file format, the report you see looks exactly the same when you print it or distribute it electronically.

High speed interface to the ARIS/SmartBase database. By running directly on the server, the ARIS/Reports data analyzer quickly gathers the information required to create your report and deliver it your desktop with no data transferred to your desktop and minimal effect on your network performance.

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

Optional reporting database. You can create your own reports from the optional reporting database, using a compatible report generator.



Ascent airport architecture

Reports

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.

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.

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 the 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.

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 | Client desktop | Web browser | |
| | 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) |
| 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

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, Right Now View, 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, SmartAirportOperations Manager, SmartAirport Operations Manager (stylized), SmartAirport WorkZone, and SmartAirport WorkZone (stylized) are registered trademarks of Ascent Technology, Inc., in the United States.

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