Advanced Reporting Module

The Advanced Reporting Module adds enhanced reporting, charting and business intelligence capabilities to RF Code's Asset Manager and Sensor Manager, allowing users total control over the content, format, layout and general look of reports and graphs.

Features & Benefits

- *Seamless integration with Asset Manager & Sensor Manager*

- *Custom tables, grids and lists*

- *Data summaries*

- *Conditional text formatting*

- *Custom header and footer*

- *Wide variety of chart styles:*
    - *Line*
    - *Bar*
    - *Pie*
    - *Area*
    - *Meter*
    - *Scatter*
    - *Stock*
    - *Bubble*
    - *Difference*
    - *Gantt*
    - *Tube*

- *Watermarking*

- *Multiple output formats such PDF, HTML, etc.*

The following capabilities are provided by the Advanced Reporting Module:

- Advanced lists, grids, simple tables and cross tab tables
- Conditional formatting for any data in table or list utilizing such items as summaries, totals, averages as well as fonts and color coding
- A wide variety of chart styles such as line, bar, pie, area, meter, scatter, stock, bubble, difference, Gantt, and tube
- Display data in two dimensions
- Customized headers and footers
- Background watermarking
- Include static images
- Include data from external data sources (other database sources)
- Produce compound reports that combine multiple reports and charts into a single output

The RF Code Advanced Reporting Module utilizes the powerful open source BIRT (Business Intelligence Reporting Tool) reporting system which is part of the Eclipse Foundation. The BIRT system is comprised of two core components:

- BIRT Designer – an Eclipse based report designer
- BIRT Engine – interprets report designs and creates the actual report output

The Advanced Reporting Module for Asset Manager and Sensor Manager is a separately purchasable item that is available from RF Code and RF Code resellers.

BIRT Designer

The BIRT Designer is an Eclipse IDE based visual report designer. The BIRT Designer provides a variety of different tools to quickly build a BIRT report:

- Data Explorer for accessing and organizing the raw data
- Layout View WYSIWYG editor for creating the report layout
- Palettes of template based report elements such as lists, tables and charts
- Report Preview for real-time testing and viewing of the report while inside the Eclipse IDE
- Expression Builder for simple scripts computing additional information from raw data

BIRT Engine

The BIRT Engine utilizes BIRT report designs to create the final BIRT reports.
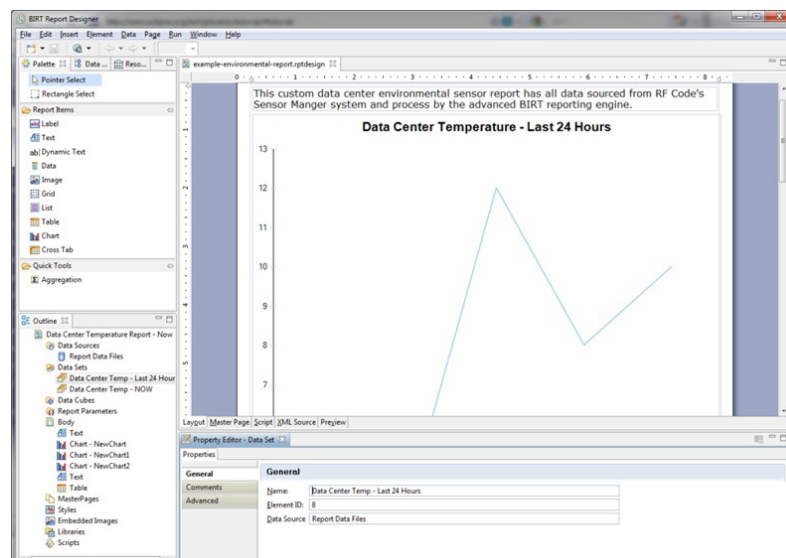
The BIRT Engine is seamlessly integrated into RF Code's Asset Manager and Sensor Manager reporting infrastructure so that it utilizes the scheduling and access control capabilities native to the RF Code products. The BIRT report outputs can be in a variety of different formats such as PDF, HTML, Word, PowerPoint and Excel.
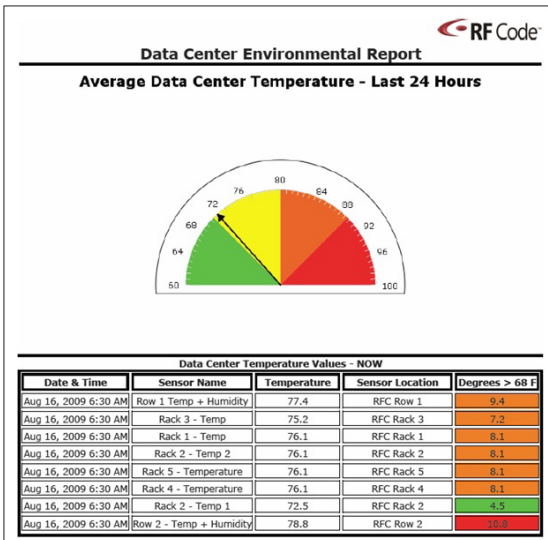
More BIRT Information

More information about BIRT can be obtained from Eclipse Foundation BIRT Project Home Page at http://www.eclipse.org/birt/phoenix/.

RF Code Advanced Reporting Module Specifications

- The Advanced Reporting Module server component requires Asset Manager or Sensor Manager version 2.2 or higher.
- The BIRT Designer is an Eclipse IDE-based plugin available for a variety of different platforms (Windows, OS X, and Linux).
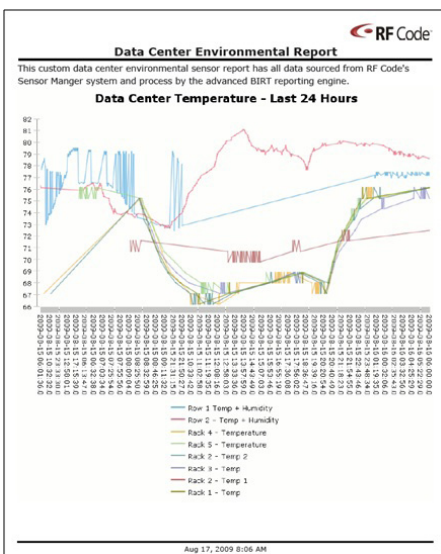
Advanced Reporting Module Output Examples

Data Center Environmental Report

Average Data Center Temperature - Last 24 Hours

Data Center Temperature Values - NOW

Date & Time	Sensor Name	Temperature	Sensor Location	Degrees > 68 F
Aug 16, 2009 6:30 AM	Row 1 Temp + Humidity	77.4	RFC Row 1	9.4
Aug 16, 2009 6:30 AM	Rack 3 - Temp	75.2	RFC Rack 3	7.2
Aug 16, 2009 6:30 AM	Rack 1 - Temp	76.1	RFC Rack 1	8.1
Aug 16, 2009 6:30 AM	Rack 2 - Temp 2	76.1	RFC Rack 2	8.1
Aug 16, 2009 6:30 AM	Rack 5 - Temperature	76.1	RFC Rack 5	8.1
Aug 16, 2009 6:30 AM	Rack 4 - Temperature	76.1	RFC Rack 4	8.1
Aug 16, 2009 6:30 AM	Rack 2 - Temp 1	72.5	RFC Rack 2	4.5
Aug 16, 2009 6:30 AM	Row 2 - Temp + Humidity	78.8	RFC Row 2	10.8

Pin Pad Inventory:

Name	Asssigned Station	Expected Location (s)	Asset Location	Alert State
Pin Pad 1	Cashier 1	NORTH LAMAR MOTORBANK	NORTH LAMAR MOTORBANK	
Pin Pad 2	Cashier 2	NORTH LAMAR MOTORBANK	PARKLINE	
Pin Pad 3	Cashier 3	NORTH LAMAR MOTORBANK	PARKLINE	
Pin Pad 4	Cashier 4	NORTH LAMAR MOTORBANK	NORTH LAMAR MOTORBANK	
Pin Pad 5	Financial Services Desk 1	NORTH LAMAR MOTORBANK	PARKLINE	
Pin Pad 6	Financial Services Desk 2	NORTH LAMAR MOTORBANK	NORTH LAMAR MOTORBANK	

Pin Pads Offline:

Name	Asssigned Station	Expected Location(s)	Asset Location	Start Time	Stop Time
Pin Pad 2	Cashier 2	NORTH LAMAR MOTORBANK	Unknown Location	2010-01-17 13:04:05	2010-01-17 13:06:34
Pin Pad 2	Cashier 2	NORTH LAMAR MOTORBANK	Unknown Location	2010-01-17 13:08:52	2010-01-17 13:09:23
Pin Pad 2	Cashier 2	NORTH LAMAR MOTORBANK	Unknown Location	2010-01-17 13:13:05	2010-01-17 13:16:03
Pin Pad 2	Cashier 2	NORTH LAMAR MOTORBANK	Unknown Location	2010-01-17 13:22:09	2010-01-17 13:23:09

Data Center Environmental Report

This custom data center environmental sensor report has all data sourced from RF Code's Sensor Manger system and process by the advanced BIRT reporting engine.

Data Center Temperature - Last 24 Hours

- Row 1 Temp + Humidity
- Row 2 - Temp + Humidity
- Rack 4 - Temperature
- Rack 5 - Temperature
- Rack 2 - Temp 2
- Rack 3 - Temp
- Rack 2 - Temp 1
- Rack 1 - Temp

Aug 17, 2009 8:06 AM

Report Details

Start Time	Stop Time	Name	Asset Tag	Asset Location
2010-04-15 10:43:36	2010-04-15 10:45:15	Dell Server ZT235	IRCODE00000005	Houston
2010-04-15 10:45:15	2010-04-15 14:20:43	Dell Server ZT235	IRCODE00000005	Unknown Location
2010-04-15 14:20:43	2010-04-16 14:49:22	Dell Server ZT235	IRCODE00000005	Austin
2010-04-15 10:43:36	2010-04-15 10:45:14	IBM Server 1964	IRCODE00000004	Houston
2010-04-15 10:45:14	2010-04-15 14:20:44	IBM Server 1964	IRCODE00000004	Unknown Location
2010-04-15 14:20:44	2010-04-16 14:49:22	IBM Server 1964	IRCODE00000004	Austin

Start Time	Stop Time	Name	Temperature	Humidity	Dew Point
2010-04-15 12:00:07	2010-04-15 12:02:39	Rack 166	76.1	40.2	50.2
2010-04-15 12:02:39	2010-04-15 12:03:40	Rack 166	76.1	39.6	49.8
2010-04-15 12:21:29	2010-04-15 12:22:00	Rack 166	76.1	40.2	50.2
2010-04-16 14:10:23	2010-04-16 14:12:25	Rack 166	76.1	40.7	50.5
2010-04-15 10:49:21	2010-04-15 11:00:03	Rack 166	75.9	41.2	50.7
2010-04-15 11:00:03	2010-04-15 11:03:36	Rack 166	75.9	40.7	50.4
2010-04-15 11:03:36	2010-04-15 11:07:41	Rack 166	75.9	40.2	50.0
2010-04-15 11:37:43	2010-04-15 11:38:13	Rack 166	75.9	40.2	50.0
2010-04-15 11:40:46	2010-04-15 12:00:07	Rack 166	75.9	40.2	50.0
2010-04-15 12:03:40	2010-04-15 12:04:41	Rack 166	75.9	40.2	50.0