SkyFoundry Insider

Changing the Game for the User eXperience –

SkySpark **View Builder** combines all of the benefits of automatically generated Apps, with the ability to create customized views

Introducing SkySpark[®] View Builder – Enabling Easy Assembly of Custom Apps, Views and Reports

One of the main features of SkySpark that has made it so successful is that it **automatically** creates rich visualizations of analytic results and operational data without requiring engineering effort to build displays. This capability was a break-through when first introduced in 2011. It has eliminated countless hours of labor typically associated with creating graphical displays of equipment data, operational conditions and analytic findings.

While our users love the efficiency the automated apps provide, there is often a desire to create customized presentations of operating data and analytic findings. SkySpark's new View Builder technology takes the next step in data visualization by enabling users to create their own visualizations, reports and fully interactive Apps without needing software development skills. **View**

Builder provides an extensive library of display widgets and a simple point and click tool for creating views.

View Builder provides more than charts and graphs – it truly enables users to create customized user experiences that combine graphs, tables, text, selection boxes, data entry fields and more. And, once created, views are easily reused and combined to further streamline project work.



Sharing analytic findings is key to creating value from equipment system data – all views created with View Builder are easily exported in a range of standard formats. With View Builder, SkySpark combines all of the benefits of automatically generated Apps, with the ability for users to create their own customized views quickly and easily. In this issue of the Insider we will provide examples of View Builder – but to really grasp the full power of this new technology you will want to see a live demonstration.

The User eXperience – Making Data Meaningful – the Key to Delivering Value

The UX – Making Data Analytics Meaningful to Operators

Analytics results are only valuable if they drive a process to address issues to improve efficiency and reduce cost. If the process required to create those visualization results in significant costs and extra effort the value of the analytics is diminished and the potential savings will not be realized. SkyFoundry addresses this challenge with a number of unique User eXperience solutions.

Automatic Generation of Information Visualizations

Finding patterns and transforming data may be the technological core of an analytics platform, but to make results useful we need to present those findings in visualizations that make it easy for operators to understand and act on them. SkySpark automatically generates rich, intuitive visualizations to show operators analytic findings, trends, correlations and relationships without the conventional approach of requiring assembly of graphical displays.

"Compose-able" Applications

Different users and applications have different needs and often want to see their data and analytics results in different ways. SkySpark combines the power of automatically generated visualizations with the ability to combine our standard tools into custom views with a feature we call compose-ability. This is not simply assembling information and charts into fixed reports, but truly combining visualizations into unique applications that accept user input for selection of date ranges, equipment, data and other items. We think it's a revolutionary new take on web-based UI's for smart device, data-rich applications.





Assemble Views from a Wide Range of Built in Display Widgets

Flexibility and simplicity is key to making custom views effective – if it's too hard, or the tools are too limited, users can't achieve the desired results.

With SkySpark View Builder you can build visualizations from a wide range of display widgets and combine them with formatted text and tables of data as shown.



SkySpark's Data Display Widgets

AHU Cool-Heat Mode Cycling
AHU is cycling between cooling and heating and not meeting a min amount of time required between these two modes.
AHU Cool Failure
Unit is cooling, but temperature drop between return sensor and discharge sensor is under expected threshold
Recommended Actions
1. Check to see if cooling coil is dirty 2. Check refrigerant levels in cooling system
Priority: Medium
Temp Sensor Failure
Sensor has failed to change over 24 hour period. Because it requires a full day of analysis, this rule always skips today.
Recommended Actions
1. Check calibration settings in control system 2. Physical replacement of the sensor
Priority: Medium
AHU Group Cool and Heat
A group of AHUs have at least one unit in cooling mode at the same as another unit is in heating mode. These units may be 'fighting' each other to maintain temperature setpoints.
Recommended Actions
Check control sequences.
Priority: Medium
AHU Fan Short Cycling
Point is cycling on/off more often than its min on/off times.
AHU Fan Failure
Fan is on but dischargePressure is below threshold of 0.05kPa or 0.25inH ₂ 0
Lights On and Unoccupied
Lights are on and site is unoccupied.
Recommended Actions
1. Check that schedules are linked to lighting system in control system 2. Check if lights have been left in override mode



Sample report combining temperature chart and temperature values in a table

Add formatted text to reports with SkySpark's fast and easy "Fandoc" format

Reports – Turning Rich Information Displays into Easily Shared Documents

Not all users involved in data analysis work directly with software applications. Many team members need to be provided with conventional reports,

and View Builder provides a wide range of reporting features.

Anything You See Can Be a Report

With SkySpark, if it's on the screen its available as a Report – this includes analytic results, rule descriptions operator instructions and equipment system data.

Fast and Easy Export in PDF Format

Any view in SkySpark can be quickly exported as a PDF document. User can easily export views manually, or reports can automatically be sent as attachments to emails generated by the system.



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Choose portrait or landscape, add page breaks or export as individual graphical elements as SVG or PNG images, or copy the data set in a range of standard formats (as shown in examples below).

KW by Site • Week o Headquarters Ocarytown Short Pump	•	
		50,000 kW 40,000 kW 30,000 kW
00 kW 00 kW Sun 9th Mon 10th Tue 11th Wed 12th	Copy data as ▼ Download ▼ Thu 13t Timestamp 15 PNG	и edt
All Sites Total Energy Use by Time of	Headquarters 179.0 kW Carytown 104.0 kW	

Point and Click to Build the Views You Want

The goal of SkySpark View Builder is to enable users to create custom visualizations without needing

software development skills. A Point and Click interface allows users to define the layout of views, Apps and Reports and specify the content to be displayed using standard SkySpark queries. **STEP 1** – define a layout \rightarrow

STEP 2 –	Table
Once a layout is	Chart
selected double	Form
click to choose the type of data	Text
display desired	Fandoc
for each tile \rightarrow	🖧 Use Existing
	Page
	Page Break
	Tile





STEP 3 – Select the data to be shown in each tile. Here we are requesting the temperature values for whatever date span is selected by the user. It's shown as the top left tile below.

Here is our end result – an **interactive** App that allows the user to choose the desired date range.

Tile 1 - shows Zone Temp values, Tile 2 shows Sparks for the selected time period as sparklines, Tile 3 shows Zone Temps in a scrollable table, Tile 4 – provides the Help for the Sparks shown in Tile 2.

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- Charts Collage Energy Su	mmary Equip JP View 1 JP View	4 Jp View 2 Sample Text &	Chart Spark Report Tenant Form Tenants A 🛓
Gatthenburg RTU-1 ZoneTemp G Gatthenburg RTU-2 ZoneTemp S F	Salahenbug RTU-2 ZoreTemp		Corptown RTU-1: AHU Fan Failure Corptown RTU-1 Return Temp: Temp Sensor Failure Geldershap Ben-Meter Man : KW Exceeds Targer Galdershap BTU2: AHU Go and Fan Off Saldhershap BTU2: Fan AHU Fan Stor Cycling Photogenetic Sensor Mani: KW Exceeds Target Short Pump RTU2: AHU Go and Heat Off Short Pump RTU2: AHU Go and Failure Short Pump RTU-2: AHU Go and Heat Short Pump RTU2: AHU Go and Failure Short Pump RTU-2: AHU Go and Heat Short Pump RTU-2: AHU Go and Failure Short Pump RTU-2: AHU Go and Heat Short Pump RTU-2: AHU Go and Failure Short Pump RTU-2: AHU Go and Heat Short Pump RTU-2: AHU Go and Heat Node Cycling
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215 12a 1a 2a 3a 4a 5a 6a 7a 1 mestamp 6-Sep-2017 Wed 11:45:00PM EDT 7-Sep-2017 Thu 12:05:00AM EDT 7-Sep-2017 Thu 12:15:00AM EDT	Gaithersburg RTU-1 ZoneTemp 74.73 °F 74.83 °F 74.91 °F	Gaithersburg RTU-2 Zor = 74.7 °F	KW exceeds target of 400kW
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The "Viz Framework" – The Next Generation of UX Technology Powers View Builder



Underlying all of the View Builder examples we have presented is an all-new software framework – an advanced, browser-based visualization technology we call the "**Viz Framework**". Based on the very latest techniques and technologies for browser-based applications, the Viz Framework is the engine that powers the easy to use View Builder tool and, it's available for SkyFoundry partners and customers to create highly customized, differentiated applications of their own, further extending the flexibility of the SkySpark Informatics platform.

The **Viz Framework** is designed from the ground up to blend together graphical charting, tabular data, and styled text into one unified framework that renders vies in SVG (Scalable Vector Graphics). SVG is widely accepted as the universal standard for visualization. The SVG specification is an open standard developed by the World Wide Web Consortium (W3C) since 1999. All major modern web browsers including Mozilla Firefox, Internet Explorer, Google Chrome, Opera, Safari, and Microsoft Edge—have SVG rendering support. Two 'Mobile SVG Profiles,' SVG Tiny and SVG Basic, meant for mobile devices with reduced computational and display capabilities. And, Viz includes a new PDF engine that renders straight from SVG allowing SkySpark to export the icons, charts, and other presentations you see on the

screen to PDF format <u>with</u> full fidelity and high <u>resolution</u>.

Utilizing SVG as the foundational visualization format in SkySpark provides the highest degree of compatibility and flexibility for presentation information across platforms.

If you think of View Builder as a drag-anddrop tool for easy assembly of views designed for use by almost anyone. The Viz



Framework provides more advanced users with the ability to presentations with any combination of features, styles, data and even graphic images. This approach furthers SkyFoundry's commitment to make it *automatic and easy* to get standard views of data and analytics results with no engineering effort, while providing more advanced users with the tools they need to *create virtually anything* they can imagine.

SkySpark[®] – Creating Value from Device Data

The past decade has seen dramatic advances in automation systems and smart devices. From IP connected systems to support for web services and xml data schemas, it is now possible to get the data produced by the wide range of systems and devices found in today's buildings and equipment systems.

Access to this data opens up new opportunities for the creation of value-added services to reduce energy consumption and cost and to identify opportunities to enhance overall facility operations.

Access to the data is just the first step in that journey, however. The new challenge is how to manage and derive value from the exploding amount of data available from these smart and connected devices. *SkySpark directly addresses this challenge*.

The new frontier is to efficiently manage and analyze data to find what matters™

Your equipment has something to tell you.

SkySpark[®] speaks its language.

