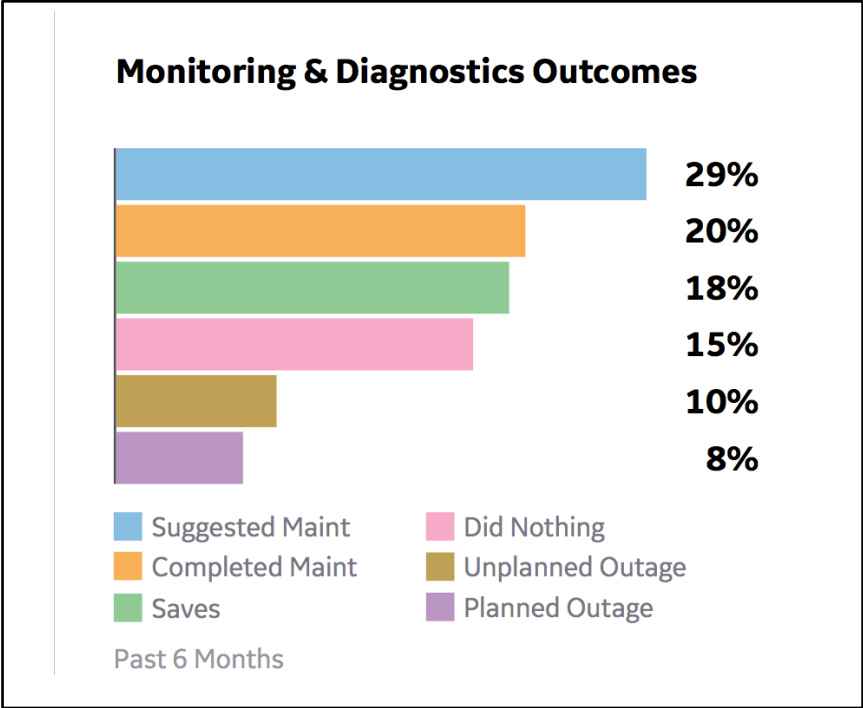
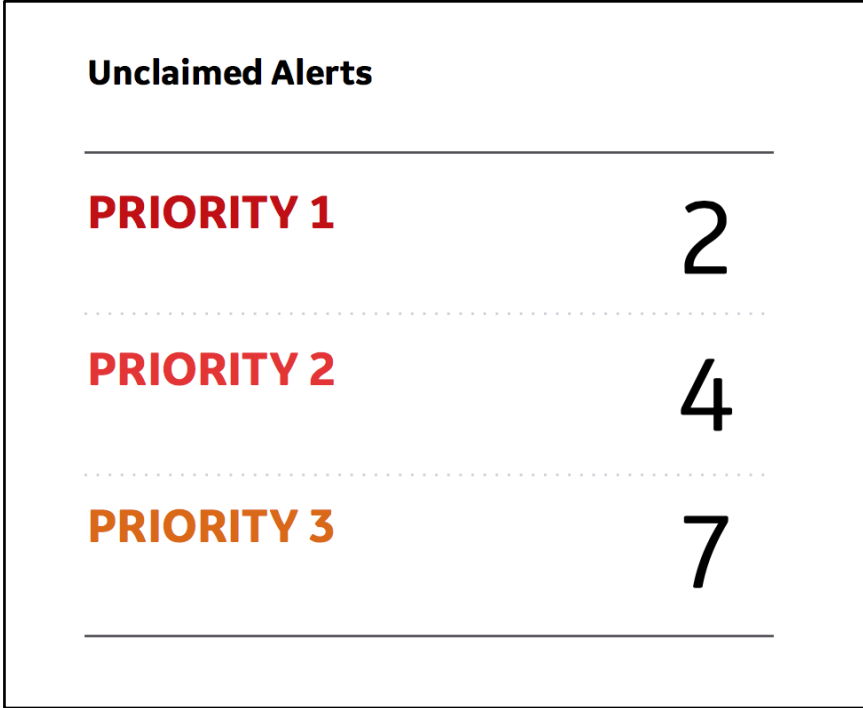
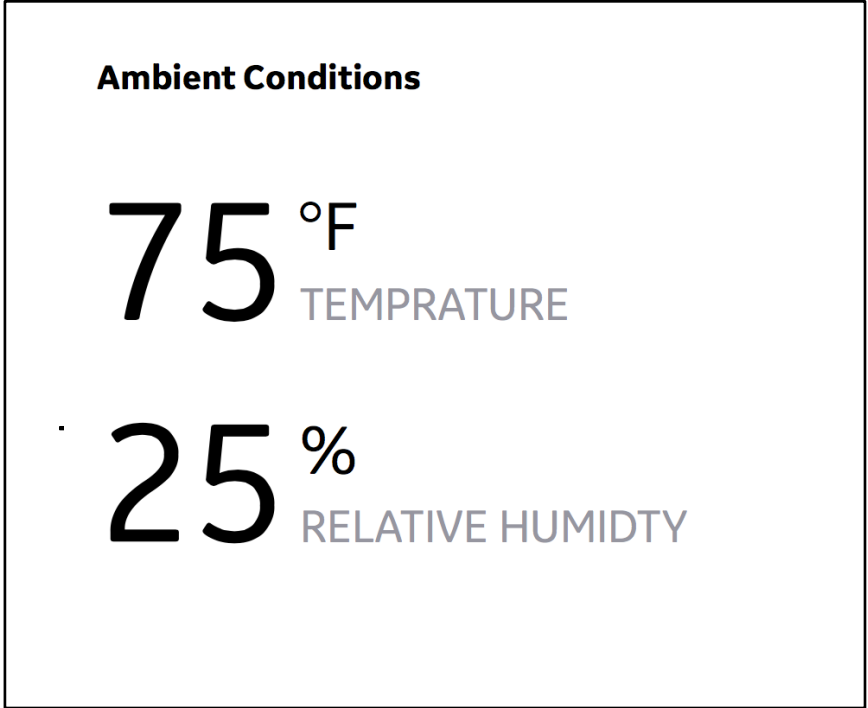
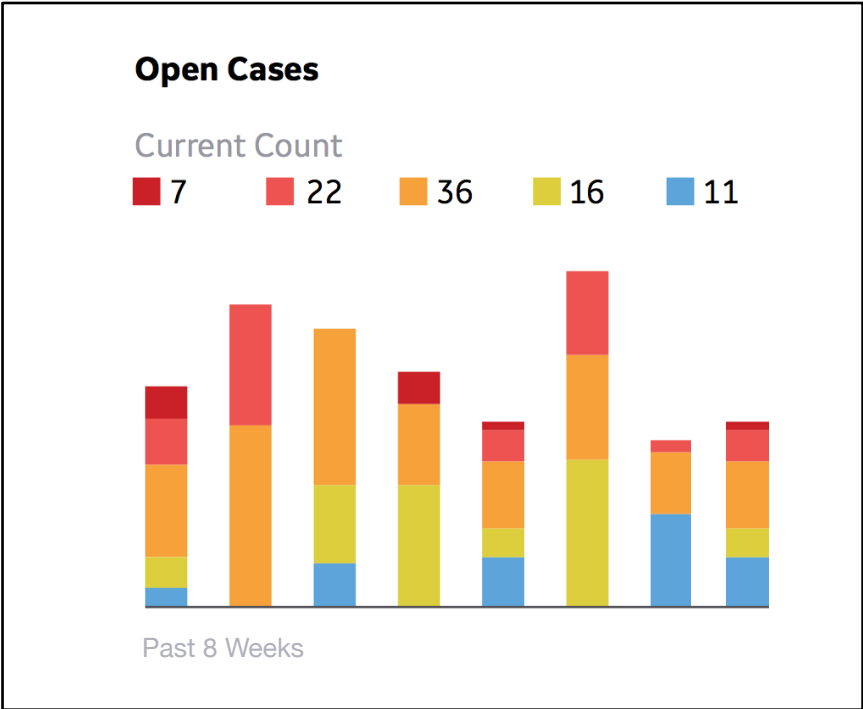
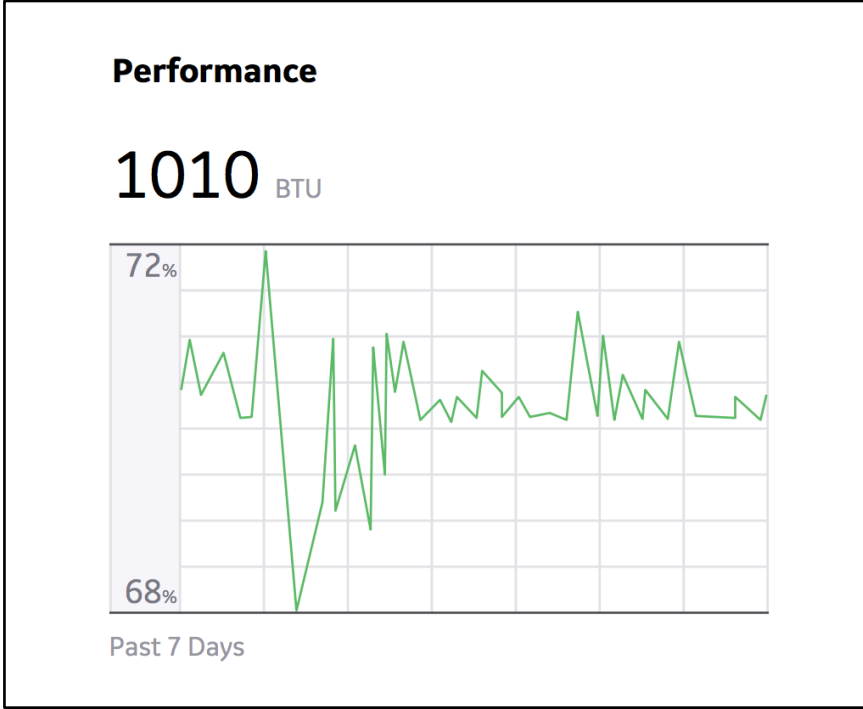
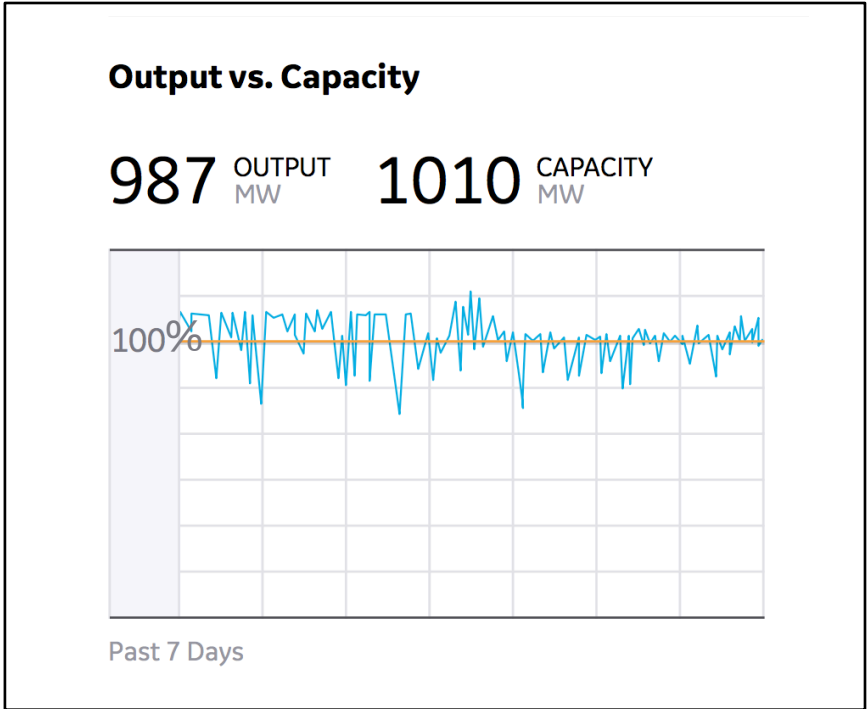


Widget MVP Catalog

With sample configurations and data

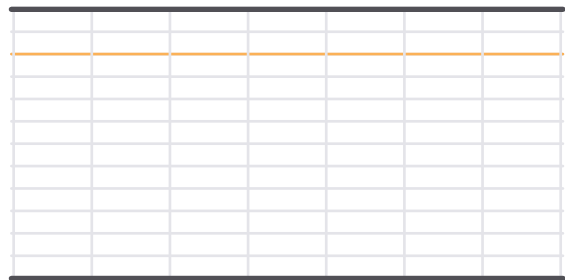
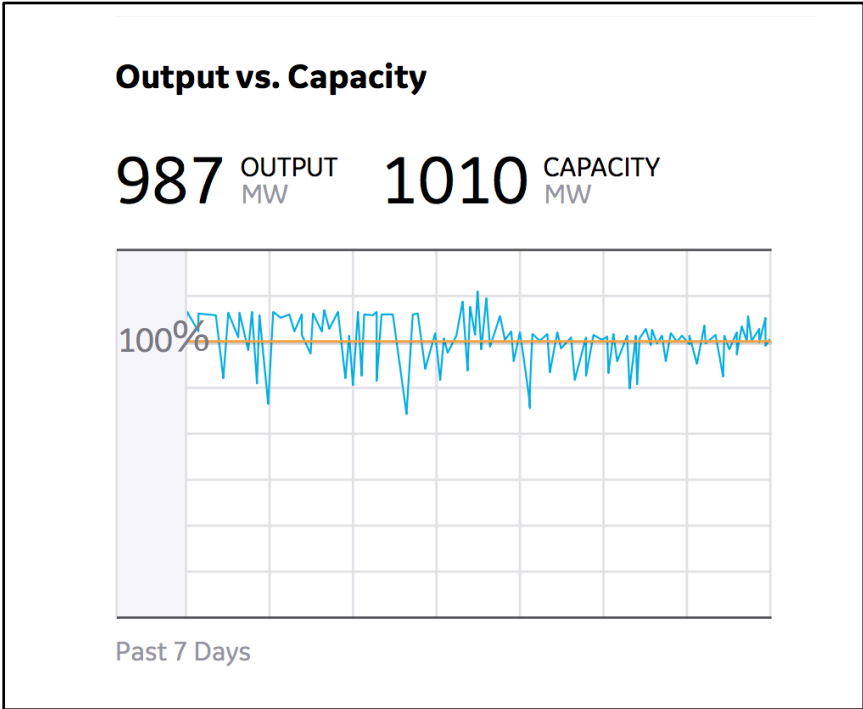
(NOT FINAL VISUAL DESIGN)



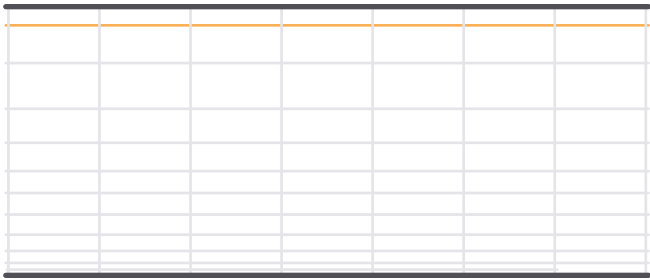
Widget Wireframes

Small Line Plot: Continuous Data

Current vs. Expected Asset Tag Value
Last 7 rolling calendar days



Past 7 Days



Log Scale

Source: Basic Line Chart
<http://www.highcharts.com/demo/line-basic>

KPI

What is the ratio of the output produced by a machine vs. what it is capable of producing.

Acceptance Criteria

Programatic configurability

Minimum

- Label indicating most recent value (current time series data)
- Label indicating max value (Capacity from Asset Attributes)
- Rolling status of last 14 days
- Threshold label (100%)

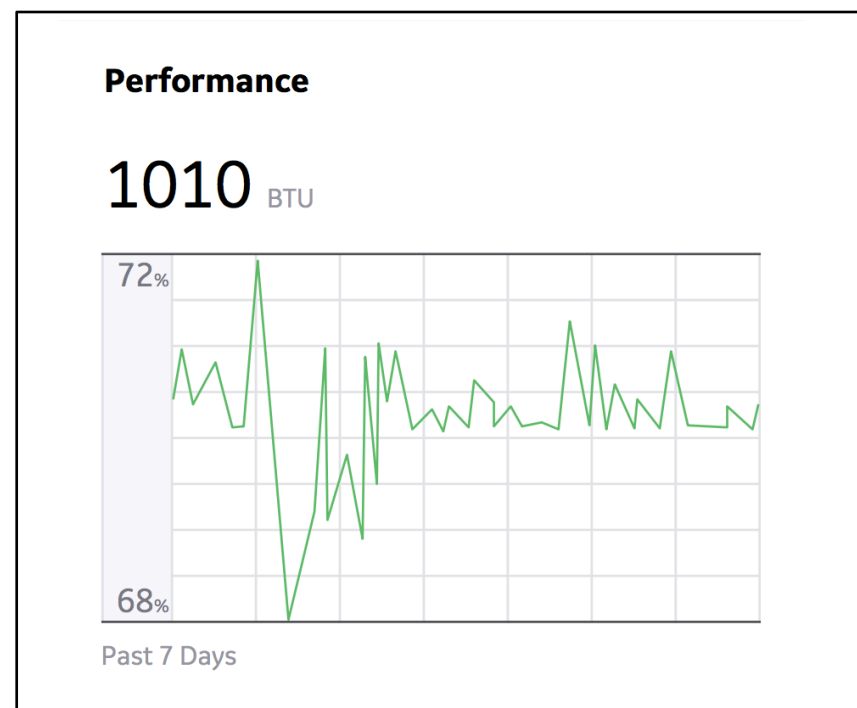
Stretch

- Rolling status of last N calendar days (Typically 7-14 days)
- Set additional threshold (High/Low) to make it clear when output drops (below 80% for instance)
- Threshold Lables
- Set range (Typically 0%-110%)
- When bottom of range is not 0% it should be indicated.
- Multiple thresholds (HH, H, L, LL)
- Linear or logarithmic scale

Widget Wireframes

Small Line Plot: Continuous Data

E.g. Asset output per unit of input
Last 7 rolling calendar days



Source: Basic Line Chart
<http://www.highcharts.com/demo/line-basic>

KPI

Output per unit of input - per hour
For Power Generation equipment (e.g. Turbines) up to Fleet level.

Acceptance Criteria

Programatic configurability

Minimum

- Label indicating Tag name in english (+ optional Tag name)
- Display max value with units of measure
- Rolling status of last 7 calendar days (PX) indicated with label
- Label Min and Max values (PX)
- Autoscale Y axis (PX)

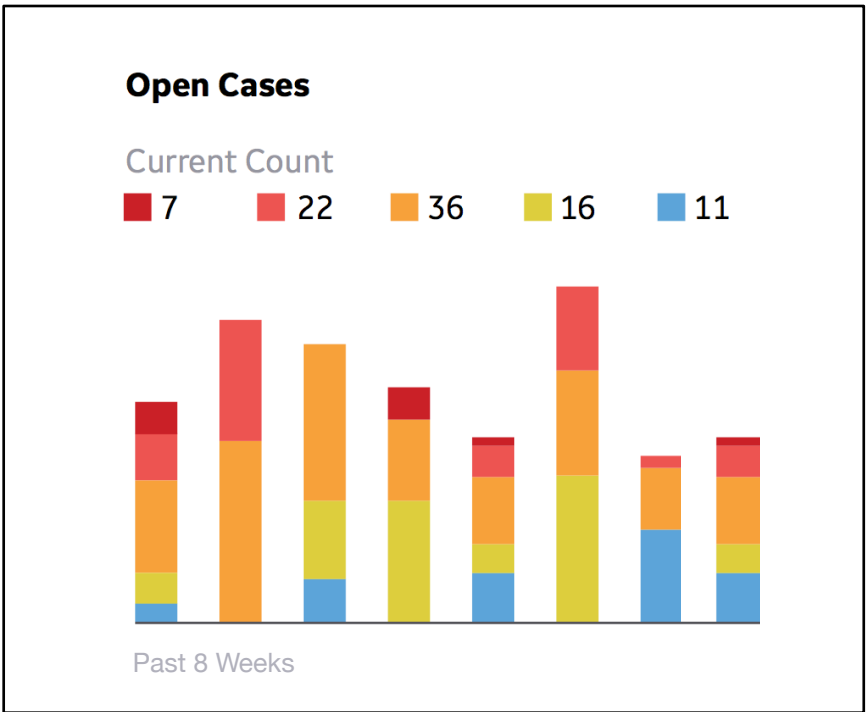
Stretch Goal

- Rolling status of last N calendar days (PX)
(Typically 7-14 days)
- Multiple thresholds (HH, H, L, LL)
- Linear or logarithmic scale

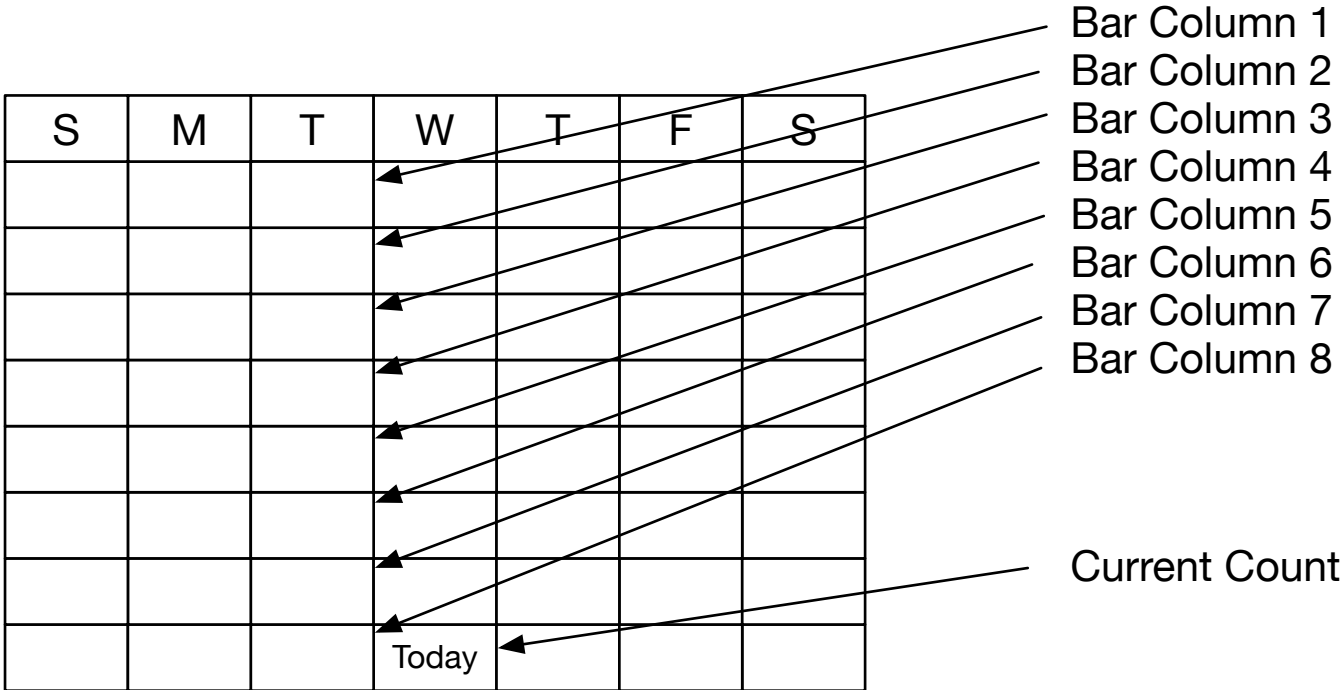
Widget Wireframes

Small Bar Plot: Discrete Data

Daily Summary and Recent Values E.g. Case health
Most recent data and last 8 rolling weeks.



Closing Values
7 days apart



Source: Stacked Percentage Column Chart
<http://www.highcharts.com/demo/column-stacked-percent>

KPI

How many Cases are coming in, how are they trending, are we making progress? How many are there of each category of Case Priority/Severity.

Acceptance Criteria

Programatic configurability

Minimum

- Current values are recorded every night at midnight. (Like the closing price of a stock)

Each bar displays the closing value of each type of case from the same day of the week 7 days prior.

- The Current Count is the number of each type of case
- Scale chart to fit maximum values

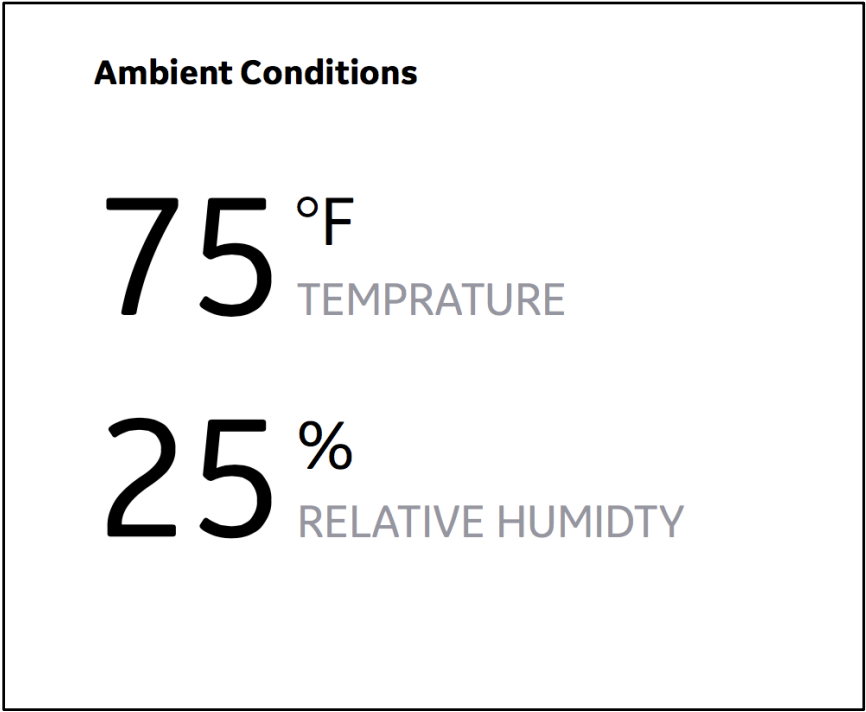
Stretch Goal

- Comparison tick (not shown)

Widget Wireframes

Weather

Ambient Site-Local Temperature & Humidity



KPI

Set temperature units of measure from Asset Model
Read temperature and relative humidity from local sensor data

Acceptance Criteria

Programatic configurability

- Minimum
- Add/remove widget if data unavailable
 - Update on page refresh

(TBD - static sun/cloud “Weather” icon)

Stretch Goal

- Obtain weather service data for assets without temperature and humidity sensors
- See “Future Release” designs

Widget Wireframes

Labels and Numbers

Show numerical counts as of last refresh

Unclaimed Alerts	
PRIORITY 1	2
PRIORITY 2	4
PRIORITY 3	7

KPI

Values at last refresh

Acceptance Criteria

Programatic configurability

Minimum

- Title
- Unit of measure
- Value

Stretch Goal

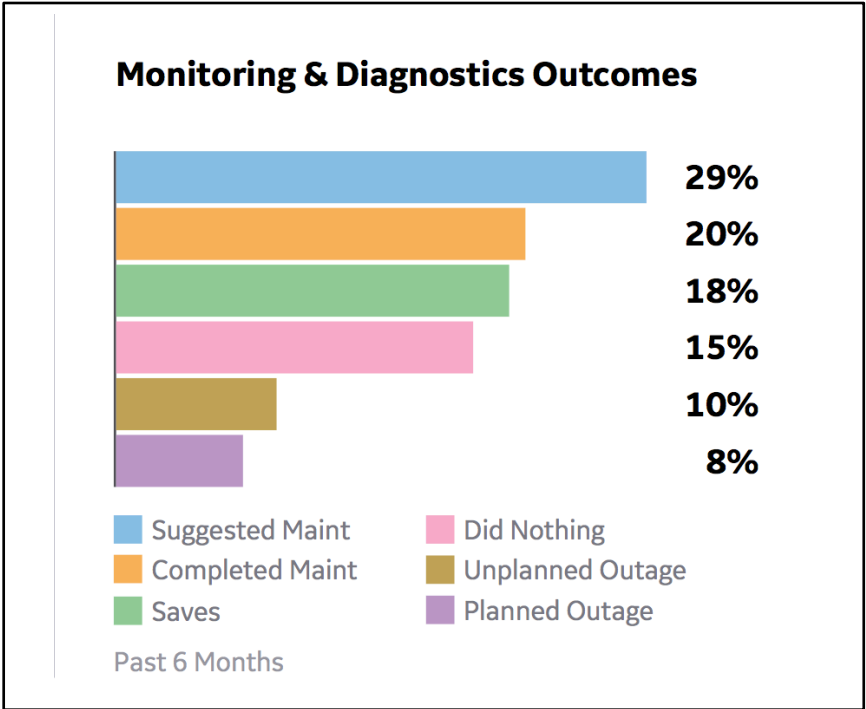
- Toast-let icon, or Toast... Widget should be able to flash indication of value change to “Toast” and indication should timeout after N seconds and/or user acknowledgement.

DAVE (TOAST vs in widget)

Widget Wireframes

Small Bar Plot: Discrete Data

Daily Summary and Recent Values
E.g. Monitoring & Diagnostic Outcomes
Last 6 rolling months



KPI

Cumulative values for diagnostic outcomes for time range

Acceptance Criteria

Programatic configurability

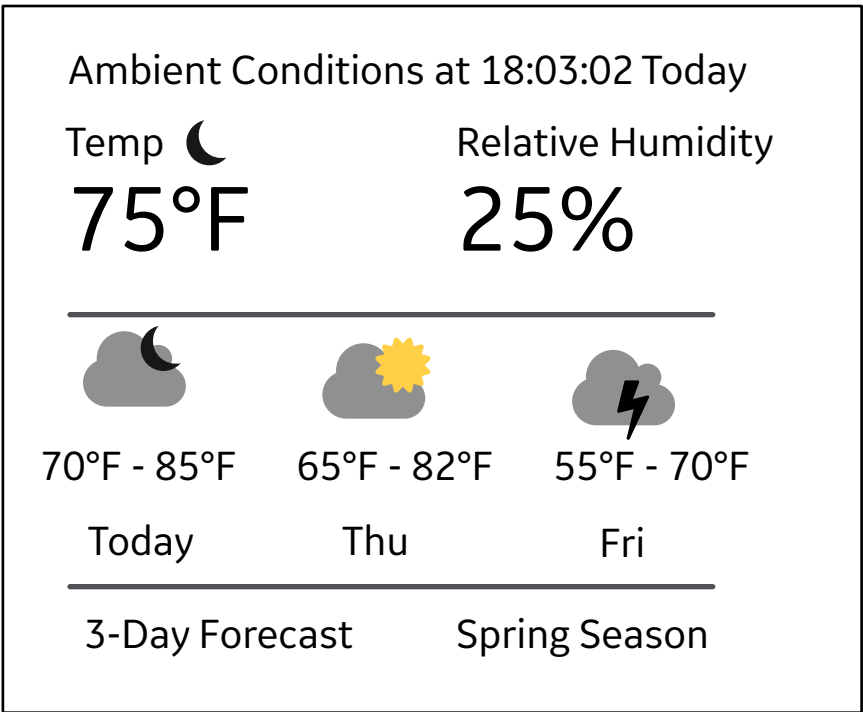
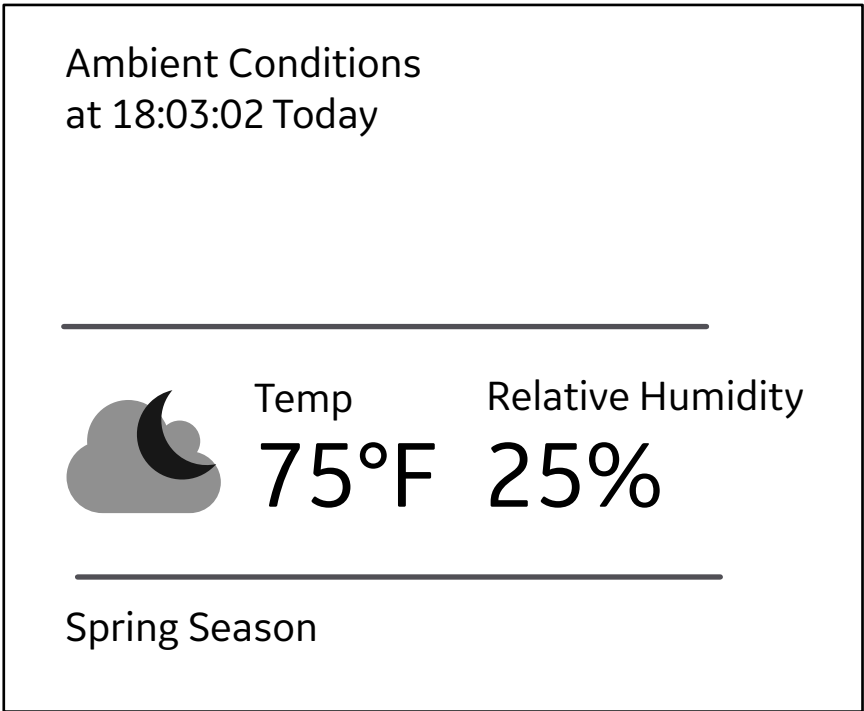
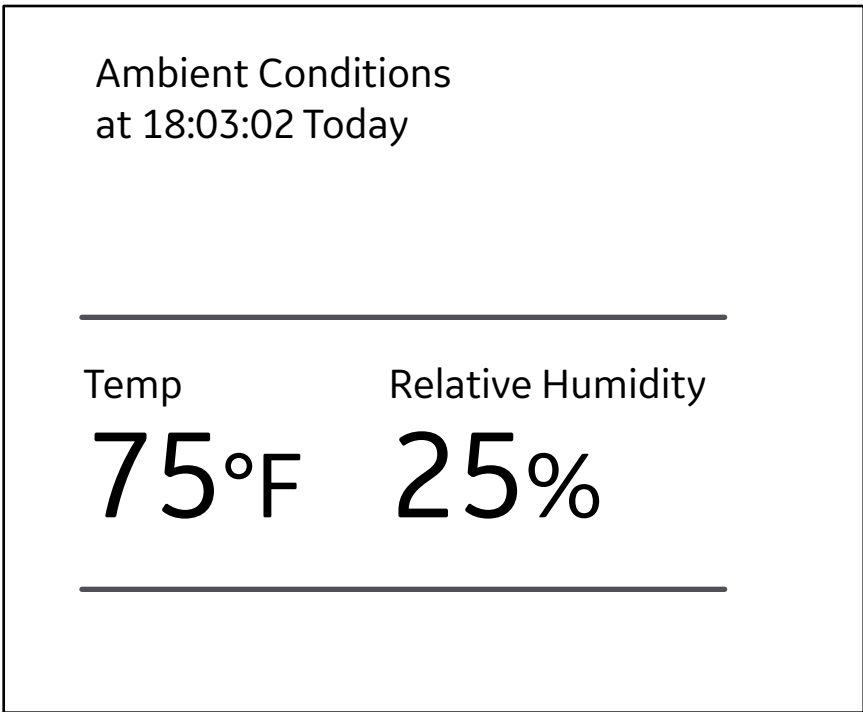
Minimum

- Title
- Discrete data bar graph
- Scale to fit data
- Selectable time range 1 day to 1 year.
- Percentage ratios or actual values

Widget Wireframes

Weather (Stretch Goals)

Ambient Site-Local Temperature & Humidity
Current, 3 day forecast (Season)



Small Acceptance Criteria

- Minimum Requirements:
- Programatic configurability
 - Set temperature units of measure
 - Indicate time of last reading
 - Set location of Temperature and Humidity to within 10 miles
(Close enough for an ambient reading, but not close enough to leak actual location to outside forecasting service.)
 - Set relative temperature and humidity to local sensor data
 - Default time display to 24hr or am/pm based on tenant settings

Medium Acceptance Criteria

- Previous Requirements Plus:
- Set local time zone for night/day calculation
 - In plants with seasonal operations indicate season based on location (hemisphere) Seasons default to Spring, Summer, Winter, Fall, but programmatically configurable (Maintenance Season.)

Large Acceptance Criteria

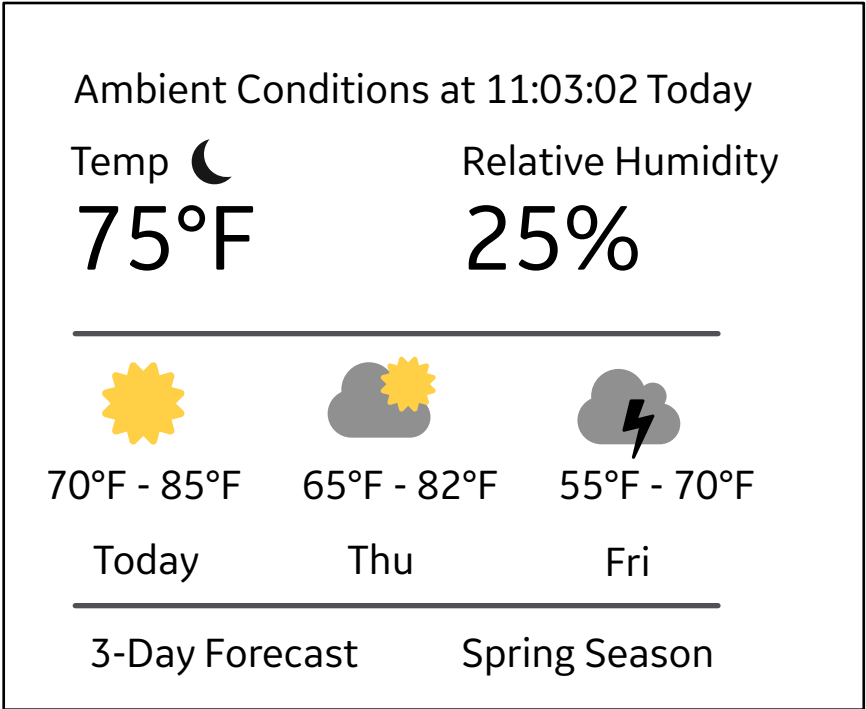
- All Previous Requirements Plus:
- Forecast of 3-5 calendar days
 - Set location of 3 day forecast request to within 10? miles
(Close enough for an ambient reading, but not close enough to leak actual location to outside forecasting service.)
 - Set relative temperature and humidity to local sensor data (or forecasting service)

Meteogram(Possible)
http://www.highcharts.com/demo/combo-meteogram#http://www.yr.no/place/United_Kingdom/England/London/forecast_hour_by_hour.xml

Widget Wireframes

Weather (Future)

Ambient Temperature
Current, 3 day forecast (Season)



KPI

Ambient Temperature
Three - five day forecast (Source?)

Acceptance Criteria

Programatic configurability

- Minimum
- Forecast of 3-5 calendar days
 - Set temperature units of measure
 - Set location of forecast Temperature and Humidity to within 10 miles
(Close enough for an ambient reading, but not close enough to leak actual location to outside forecasting service.)
 - Set relative temperature and humidity to local sensor data (or forecasting service)

Stretch Goal

- Set local time zone for night/day calculation
- indicate season based on location (hemisphere)
Seasons default to Spring, Summer, Winter, Fall, but programmatically configurable
- Default time display to 24hr or am/pm based on tenant settings