



# PROPHECY OVERVIEW

Prophecy

# What is Prophecy?

Prophecy converts the factory into a Smart Factory, creating a Connected Worker Platform.



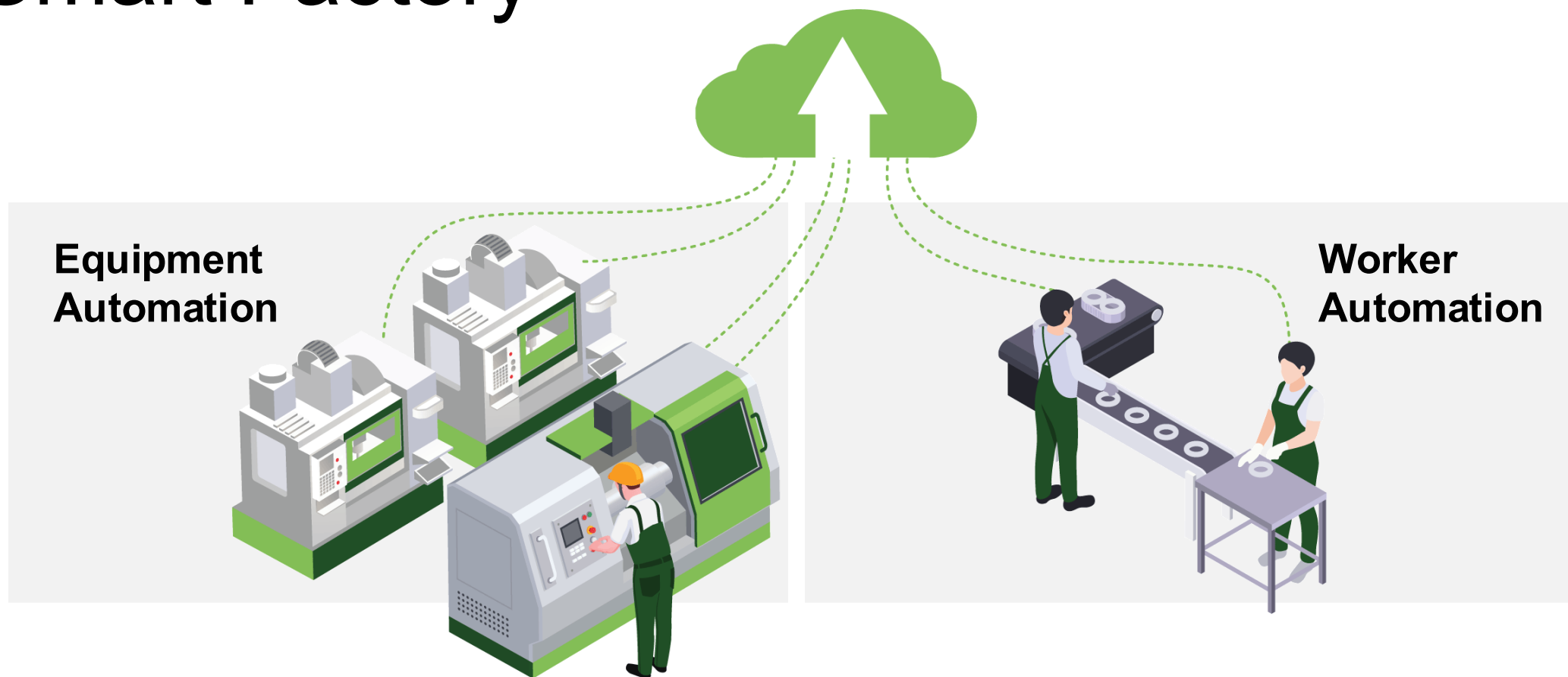
# Benefits of a Connected Worker Platform



Aspect	Impact
Engage Quickly	Reduce response time in identifying/correcting anomalies
Simple & Fast Displays	Rapid operator interaction. Keeps operator focused on process
Speed & Productivity	Automated ERP transaction creation. Inventory levels closer to real-time
Continuous Improvement	Improve detection, recording, visualizing real-time shop floor information

**“Minutes Matter”** when detecting & correcting issues on the factory floor.

# Smart Factory





# Prophecy

## Equipment Automation





## Equipment Automation

Operator  
Engagement

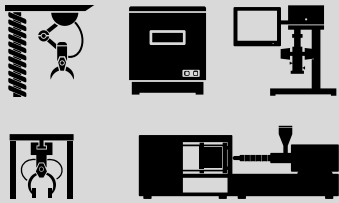
Andon  
Boards

Analytics

# Prophecy

ERP

**Machines &  
Sensors**

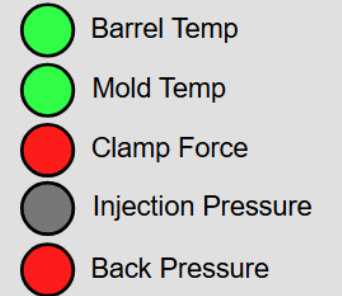


**Big Data (Data Lake) &  
AI/ML Tools (Velocity)**

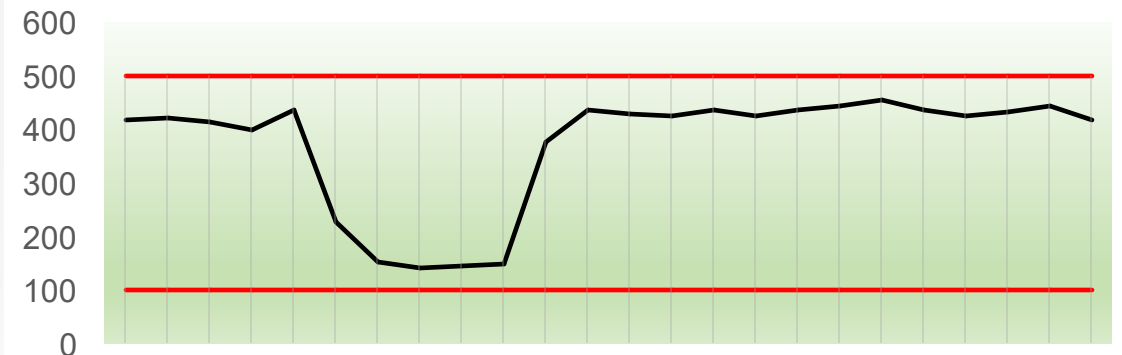


## Machine Settings and Monitors

Barrel Temp	220°C
Mold Temp	70°C
Clamp Force	3000 lb
Injection Pressure	250 Bar
Hold Pressure	90 Bar



## Rate of Change Detection Capability



# Prophecy

Worker Automation

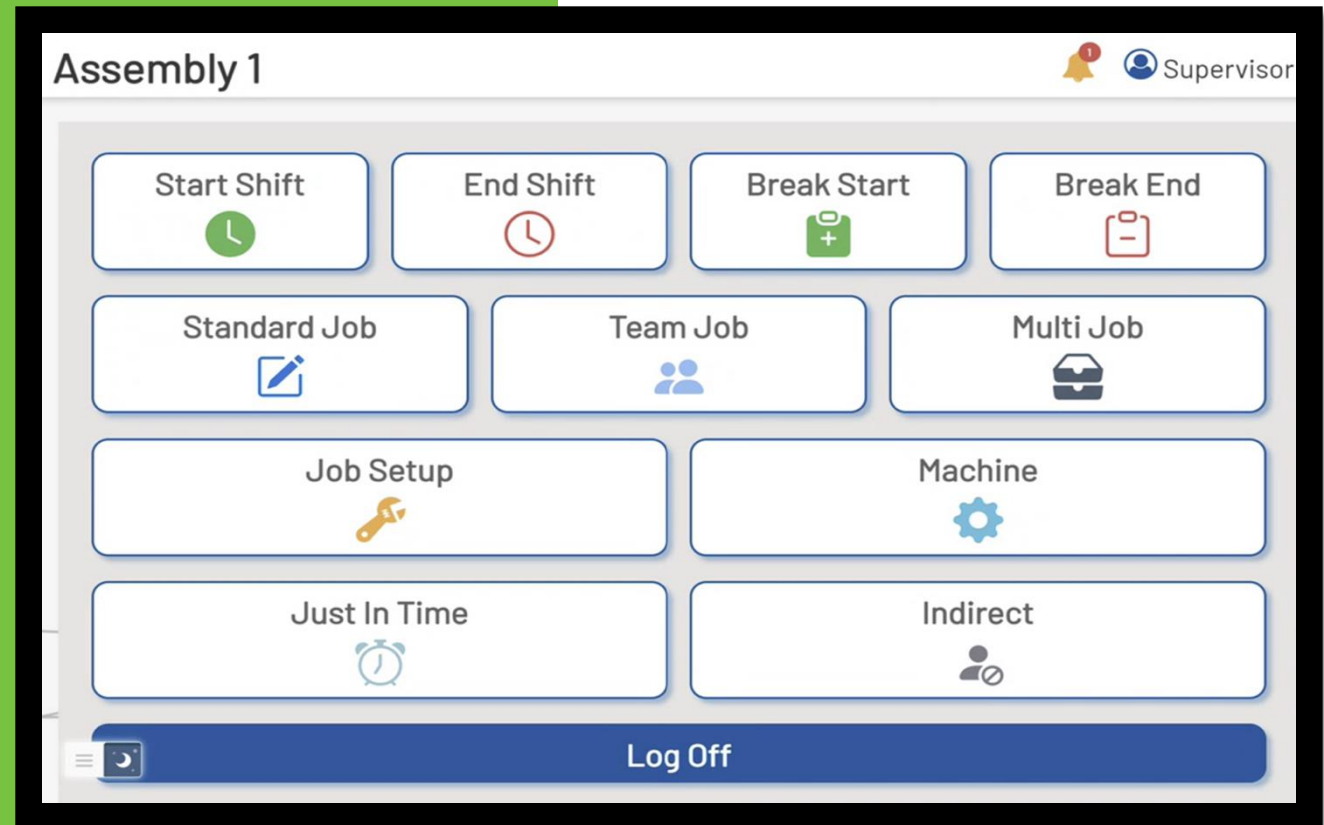
Manufacturing Hub





# Enable the connected worker

- Improve labor productivity by digitizing the shop floor
- Built on 30 years of manufacturing experience by manufacturing engineers
- The fastest shop floor solution in the market. Simplicity is key
- **UNLIMITED USERS**







# Supervisor

- Analyze and identify productivity
- Real-time visibility of employee and job engagement
- Automated report of operator efficiency
- Error Correction
- Message Employees

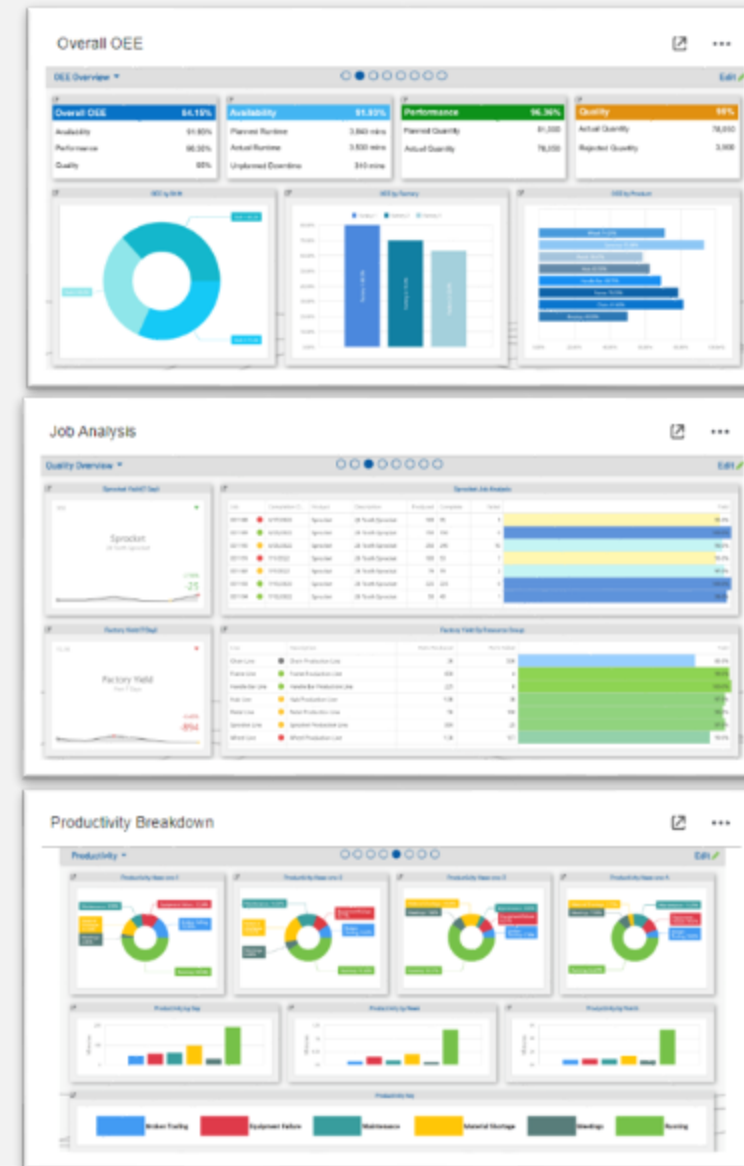
The Supervisor interface on the tablet shows a table of Employee Statuses. The table has four columns: Employee Name, Status, Duration, and Note. The data is as follows:

Employee Name	Status	Duration	Note
Andrew Howard	Running Job	2 hr : 8 min	Job: DJ00000140 Op: 20
Employee One	Shift Started	4 hr : 14 min	
Worker Two	Just In Time	1 hr : 10 min	Cleaning Work Area
Employee Three	Indirect	35 min	Shop Floor Meeting
Worker Four	On Break	50 min	
Employee Five	Job Setup	1 hr : 25 min	Job: DJ00000200 Op: 40
Worker Six	Running Machine	2 hr : 0 min	Job: DJ00000200 Op: 10

At the bottom of the tablet screen, there are pagination controls showing '10 20 50 100' and a page number '1'.

# Prophecy

## Interfaces, KPI's & Dashboards



# Design Studio

\* Design HMI's & Andon's

## The Smart Factory



The screenshot displays the Prophecy Design Studio interface for creating HMI designs. The top bar includes the 'Diagrams' title, a search bar, and buttons for 'Add', 'View Live', 'Delete', and 'Edit'. Below this is a toolbar with various editing tools. The main workspace shows a detailed HMI design for a Haas VF-6SS MC-300-M1 machine. The design includes a header with the 'Prophecy' logo and a status bar with buttons for 'Start Setup', 'Start Run', 'End Run', 'Maintenance', 'Go Offline', and 'Online'. The main content area is divided into several sections: 'Job ID' (DJ00000365), 'Program Name' (Gear, 12 tooth), 'Line Number' (N560), 'Tool ID' (T7), and 'Override Dials' (F100%, R100%, S85%). It also features a 'Batch Progress' section with a progress bar (0 of 34), a 'Cycle Progress' section (0%), and a 'Spindle Load' section (83%). A 'Spindle Speed' gauge shows 5074 RPM. There are buttons for 'Measurement', 'Update QCS', 'Update Job', 'Print QA Tag', 'Machine Failure', and 'Down Time'. A 'Scrap vs Total Qty' section shows a pie chart with 15% scrap and 85% total. An 'Alerts' section lists 'Measurement Outside of Tolerance. See Disposition', 'High Spindle Load', and 'High Spindle Speed'. At the bottom, there are 'Setup Instructions' and 'Work Instructions' sections, each with a list of steps. A 'View Drawing' button and a drawing thumbnail are also present.

- Easy To Use Design Tool
- Drag & Drop Functionality
- Choose From Our Catalog or Build Your Own

# Operator Engagement



# Live Andon



# Analytics





# Key Performance Indicators



Labor Data Report

Date Range (Default - Trailing 30)

Set Filter...

		Total Shift Time	Total Job Time	Goal	Efficiency
		56.0	45.0	80.0%	82.1%

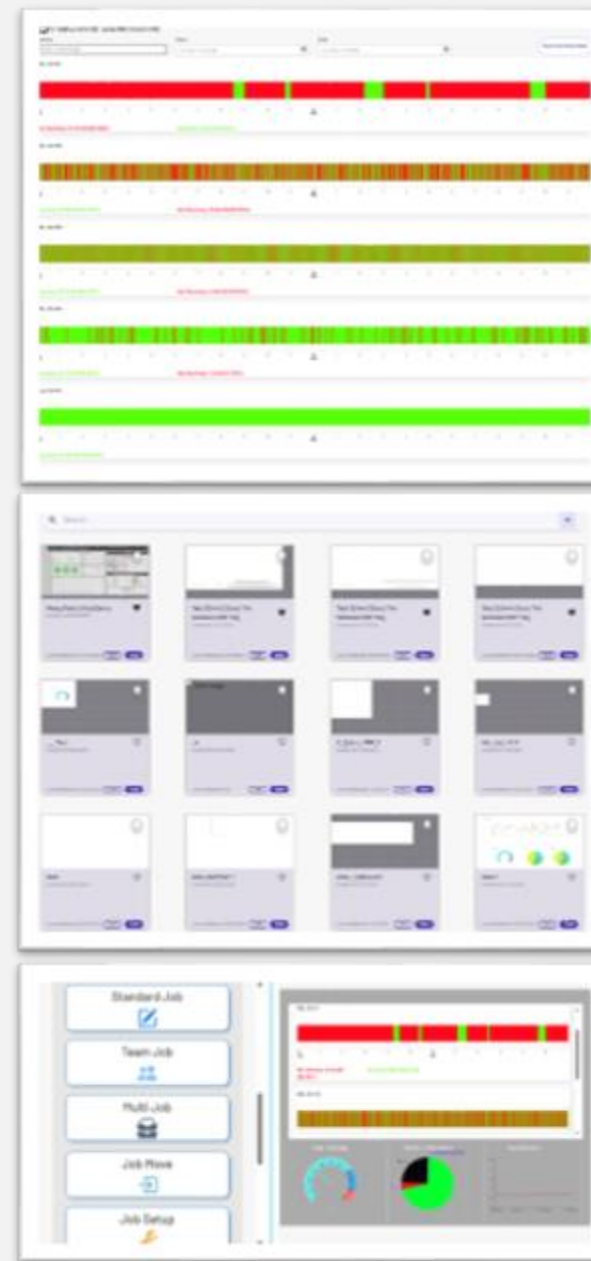
Employee	Date	Employee Number	Name	Shift Time	Job Time	Goal	Efficiency %
<input checked="" type="checkbox"/> All	7/4/2023	1	David Davidson	8.0	5.5	80.0%	68.8%
<input checked="" type="checkbox"/> David Davidson	7/5/2023	1	David Davidson	8.0	6.8	80.0%	84.4%
	7/6/2023	1	David Davidson	8.0	6.8	80.0%	84.4%
	7/7/2023	1	David Davidson	8.0	6.8	80.0%	84.4%
	7/8/2023	1	David Davidson	8.0	6.8	80.0%	84.4%
	7/9/2023	1	David Davidson	8.0	6.8	80.0%	84.4%
	7/10/2023	1	David Davidson	8.0	6.8	80.0%	84.4%

A sampling of our pre-built KPI's are listed below:

Area	KPI	Description
Employee	Job vs Shift Time	Labor Utilization. Time spent on jobs vs shift
Employee	Efficiency	Actual Output vs Planned Output
Employee	Indirect Tracking	Indirect Time Reason Codes
Employee	Scrap Rates/PPM	Defect/Scrap Rates
Machine	Utilization	Run Time vs Available Time
Machine	Efficiency	Actual Output vs Planned Output
Machine	Parts Produced	Quantity of parts produced
Machine	Downtime Reason	Down Time Reason Codes
Machine	Alarm Reason	Machine Alarm Reason Codes
Machine	PPM	Defect/Scrap Rates
Machine	ROC	Rate of Change Stoppages

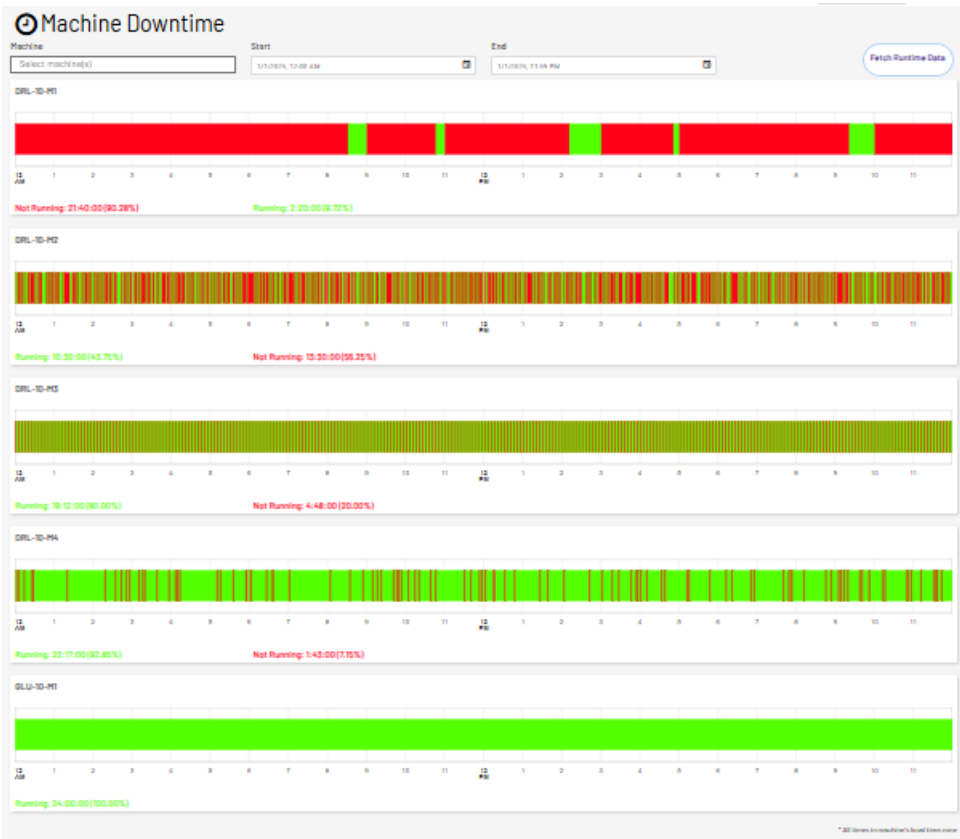
# Prophecy

## What's New





# New Features



Expanded Downtime Manager Controls and Entry Capability

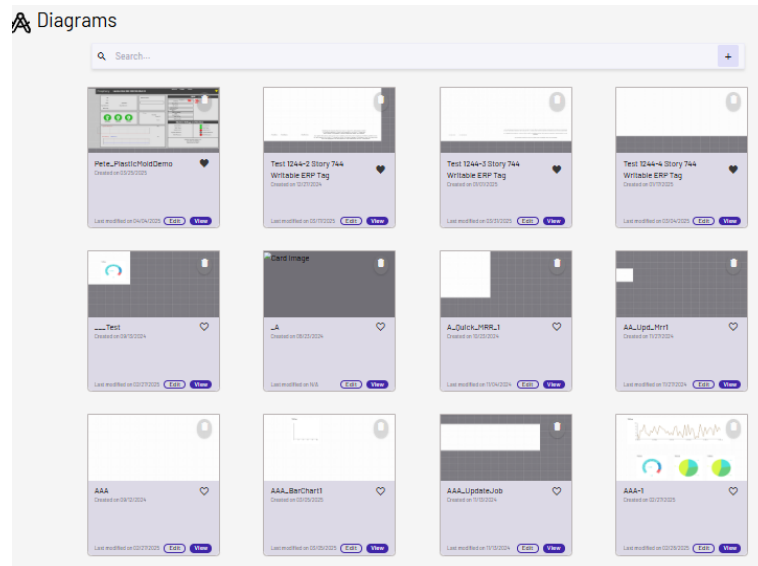
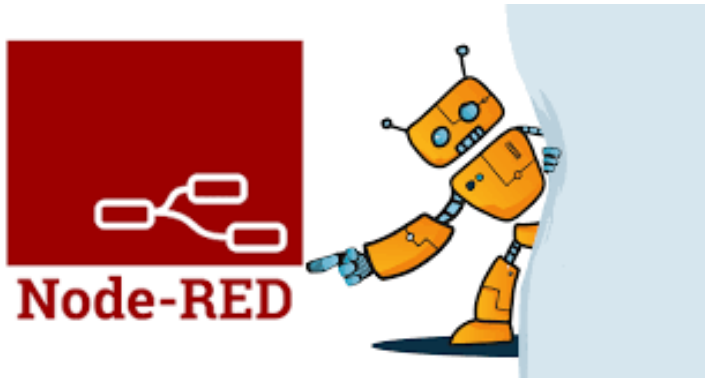
Five New Data Tag Types

Diagram in a Diagram Shape

New Diagram objects including Radial Gauge, Pie Chart, Line/Bar/Scatter Chart

Customizable Themes

# New Functions



Enhanced Performance

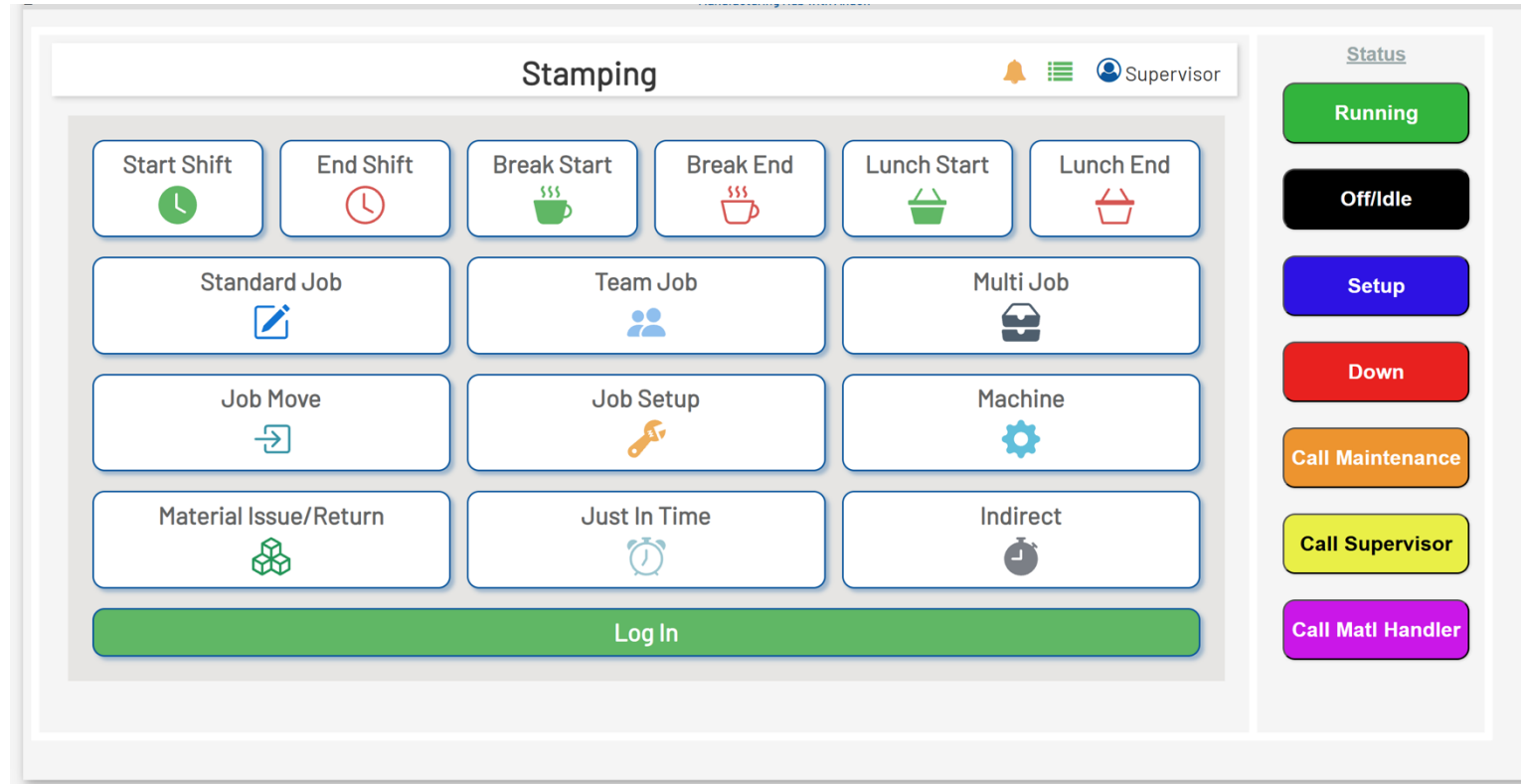
Simplified and Expanded Connectivity

3<sup>rd</sup>-Party App Interaction via API and Database

Diagram and Dashboard Cards

Data Models – Ability to read and write collections

# Example Diagram in a Diagram



The above is a combination of multiple Prophecy applications displayed on a single screen/diagram (Mfg Hub + Andon Button Diagram).

# Prophecy

## Demo

