

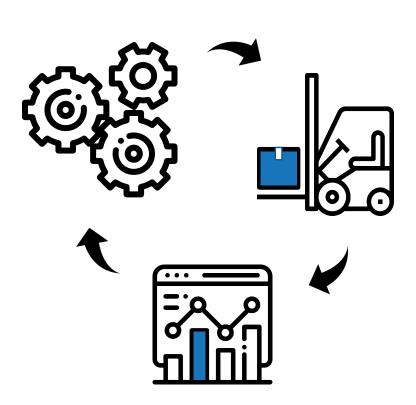
Automated Line Replenishment

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Why?

- We were experiencing significant downtime waiting for parts.
 - Material Handlers and Machine Operators were disconnected.
 - Material Handlers were driving around looking for what to do next.
 - We had zero insight into our Material Handler activity/performance.
 - Whose fault was it that the lines were going down?
- So, we made our machines automatically send the requests.
 - Increasing labor utilization.
 - Creating data and analytics on our material handling process.
 - Increasing safety on our shop floor.
 - Delivering ROI by reducing downtime waiting for parts.
- How did we get here?





Newman Technology, Inc.



Japanese Automotive Supplier





- Focused on automation and machine integration
 - 25% Plex Control panel
 - 75% Kors/Mach2
- Smaller dedicated resources for material handling.
 - Leveraging Cella Shop Mobile for scanning.
 - Keyence & Windows Mobile Devices (going away soon)
 - Dedicated Material Handlers assigned to specific lines.



The Problem "waiting for parts"



Manufacturing came to a halt because material wasn't in the right place at the right time.



Materials Team was doing their best, but they were always reacting. VP of Operations was sick of watching forks driving empty "looking for work".



Needed to find a way to connect our Material Handlers into the process and provide modern tools to do their job.



Partnering with Cella Technologies

- Cella Request Management
 - New API Layer
- Aligning with Kors Engineering
- All 3 teams worked together to deliver the vision of machines automatically making requests to material handler.





How Does it Work?

Lines are using Mach2 to record production.

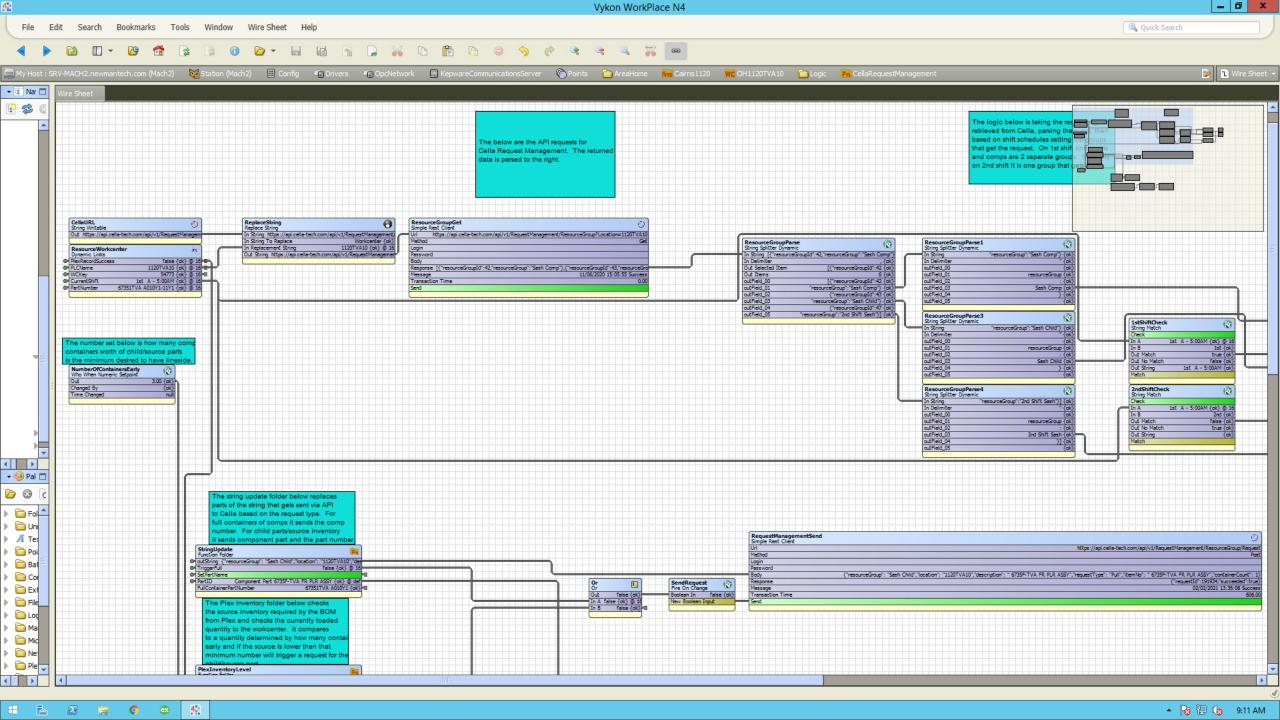
Mach2 knows when a container is generated.

At that time, I send a request for current BOM of WorkCentre.

I do my math to compare what I want as my minimum inventory level at that line.

And if its low I send a request using Cella to the Material Handlers servicing that line.





Successes



Creating a culture change for the forklift operators.

• Hesitance at first but came around after using it and realizing how it makes their job easier.



People are looking at what they keep lineside.

- Is it too much, too little?
- Is what Plex says we have at the line accurate?



Insight into who the high performers are.



Reducing downtime waiting for parts!



Next Steps- Min/Max

• User friendly automated requests based on inventory levels set in Cella.





Q&A

