



MODAPTO [101091996]: Modular Manufacturing and Distributed Control via Interoperable Digital Twins



1.1.3. Using the system dashboard to monitor production cell performance and view its current capacity

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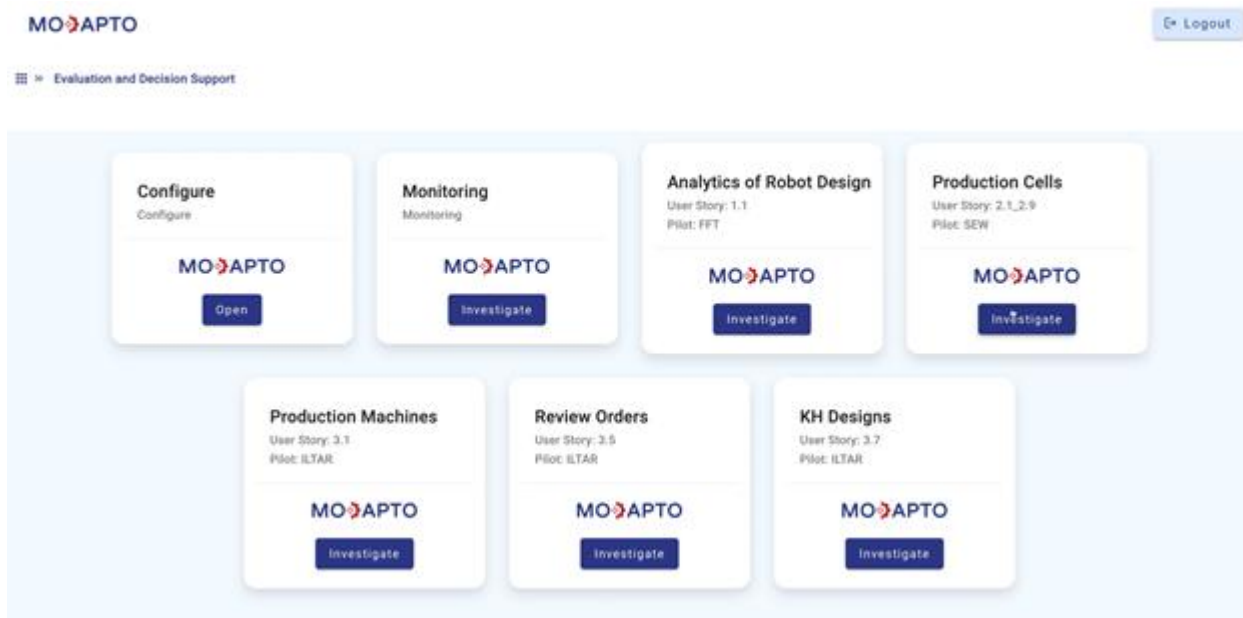
1. Introduction

Welcome in the *Real-time monitoring of Production cells* training module of MODAPTO. Real-time monitoring in modular manufacturing refers to the continuous and instantaneous tracking of processes, equipment performance, product quality, and material flow using digital technologies. This approach allows manufacturing teams to identify issues as they arise and respond without delay, minimizing disruptions, enhancing productivity, and improving overall product quality. In modular manufacturing systems, where production is divided into discrete, self-contained units or modules, real-time monitoring becomes even more critical. It enables coordination among modules, ensures consistent output, and supports a more agile and responsive manufacturing environment.

In this module the trainee will learn how to use the MODAPTO Evaluation and Decision Support dashboard to monitor production cell performance and view its current capacity. This will be extremely useful for end users of MODAPTO, such as Production managers, Shopfloor managers and operators, who want to gain real time insights about the condition of the production cells and make data-driven decisions.

2. Instructions

- Once in the general dashboard of the Evaluation and Decision Support, the user can see the option „Production cells“ . Click on „investigate“ to start.



1.1.3. Using the system dashboard to monitor production cell performance and view its current capacity



- The user is transferred on a screen where all available production cells are listed. The production cells are characterized by their name, ID and the modules they include. On the column Actions, the user can click on the „eye“ icon to see the details of a production cell.

Production Cells

Filter

Name	Id	Modules	Actions
Cell_1	https://example.com/ids/asset/9421_3170_5052_9142	Cell_1_Module_1,Cell_1_Module_2	Details
Assembly Line A	https://example.com/ids/asset/9421_3170_5052_9142	Cell_1_Module_1,Cell_1_Module_2	

Items per page: 5 1 - 2 of 2

- In the next screen, the user can see the production cell's additional information, such as its modules, the current cell capacity, its availability status, the number of the involved employees and respective jobs.

Cell Additional Information

cell capacity 30

availability yes

employees 15

jobs 5

modules Cell_1_Module_1,Cell_1_Module_2

Single cell

Name	Id	Capacity	Modules
Cell_1	https://example.com/ids/asset/9421_3170_5052_9142	30	Cell_1_Module_1,Cell_1_Module_2



4. This chapter is accompanied by a Demo video with detailed steps on how to utilize this functionality. The attendees of this course are encouraged to watch that video to receive a better understanding of the content of this course. The Demo video is titled *“Using the system dashboard to monitor production cell performance and view its current capacity.”*

4. Conclusion

Real-time monitoring is a foundational element in modern modular manufacturing. It supports smarter decision-making, higher production efficiency, and improved quality control. As manufacturing systems become increasingly digital and interconnected, the role of real-time monitoring will continue to expand. Mastering the principles and technologies involved is essential for anyone working in a production environment that demands speed, accuracy, and adaptability. With proper training and consistent application of best practices, real-time monitoring becomes not just a tool, but a key driver of operational excellence.

References

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