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Webex App

Questions?

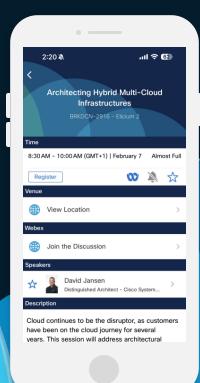
Use the Webex app to chat with the speaker after the session

How

- 1 Find this session in the Cisco Events mobile app
- 2 Click "Join the Discussion"
- 3 Install the Webex app or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until February 28, 2025.









How much of a programming wizard are you?

i Start presenting to display the poll results on this slide.



Fantastic APIs on your Factory Floor

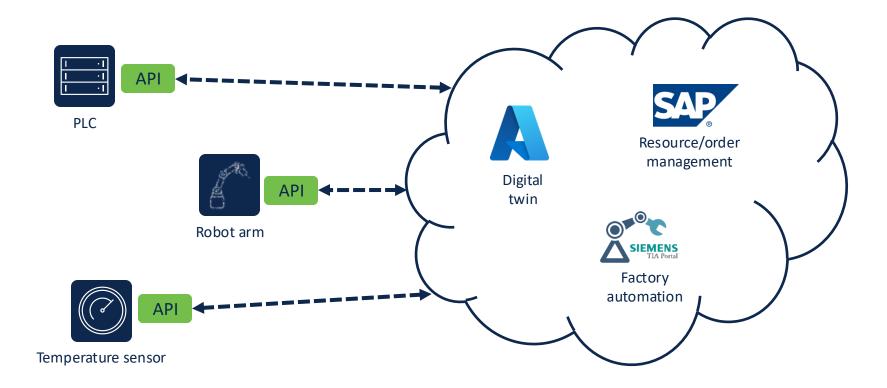
And Where to Find Them.

Stien Vanderhallen (stienvan@cisco.com)
Industrial IoT Solutions Engineer | EMEA South
EMEA IIoT Programmability Practice Lead

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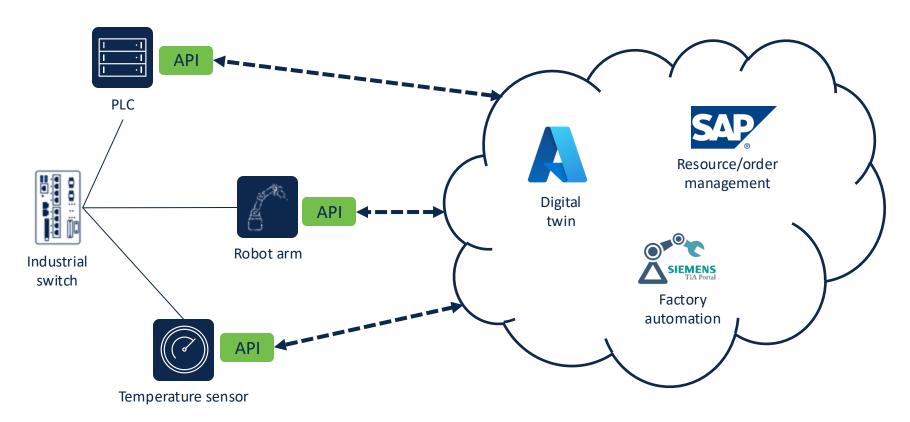


Through APIs, applications can talk to devices.



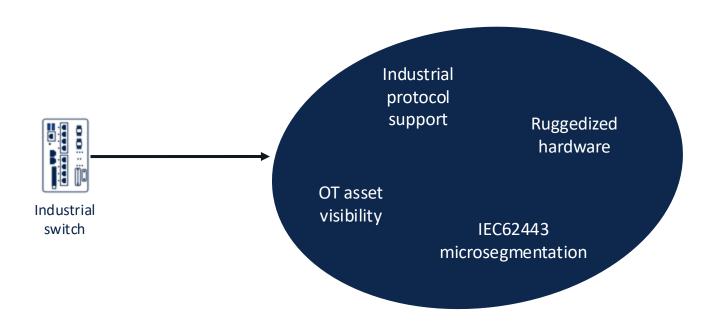


OK, but what about the network?



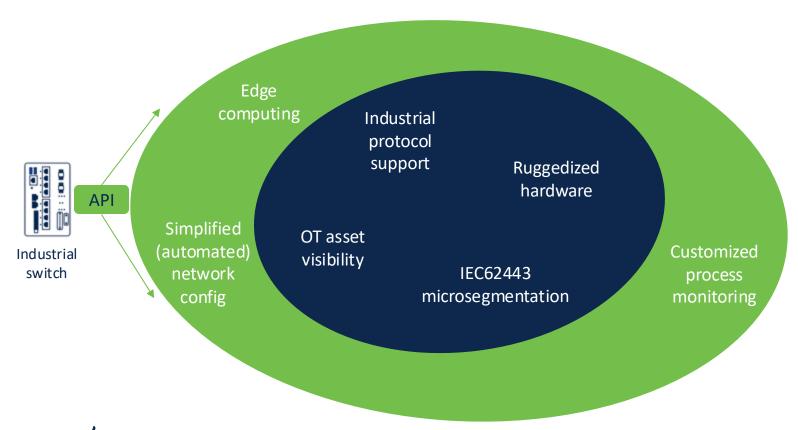


Cisco is already at the core of the OT network...

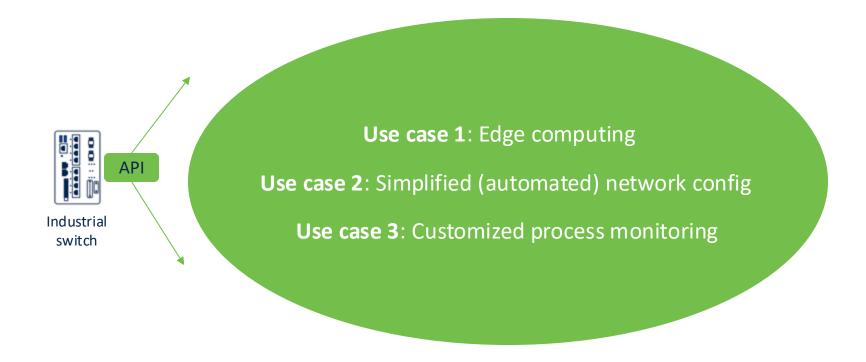




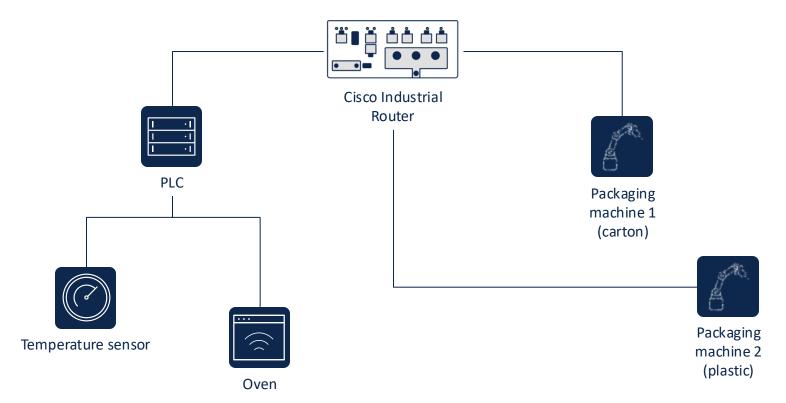
... and using APIs, we can go even further.



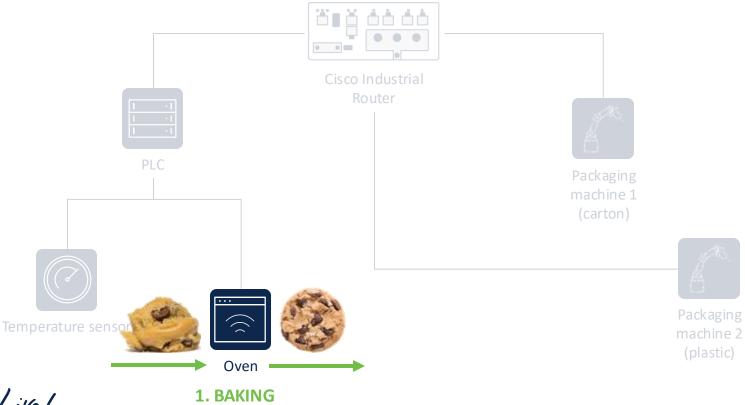
Our agenda for today has 3 main use cases.

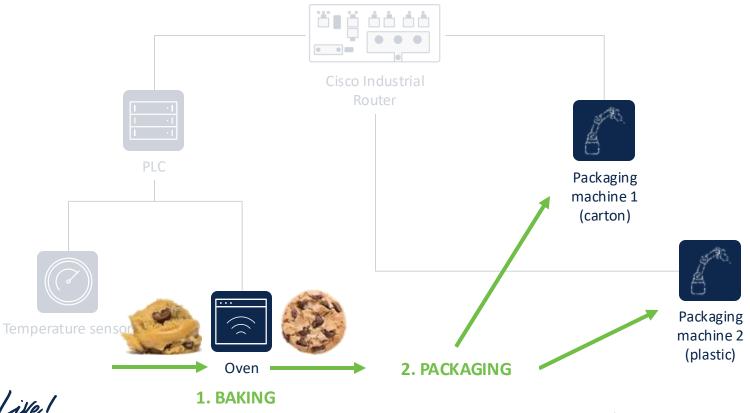


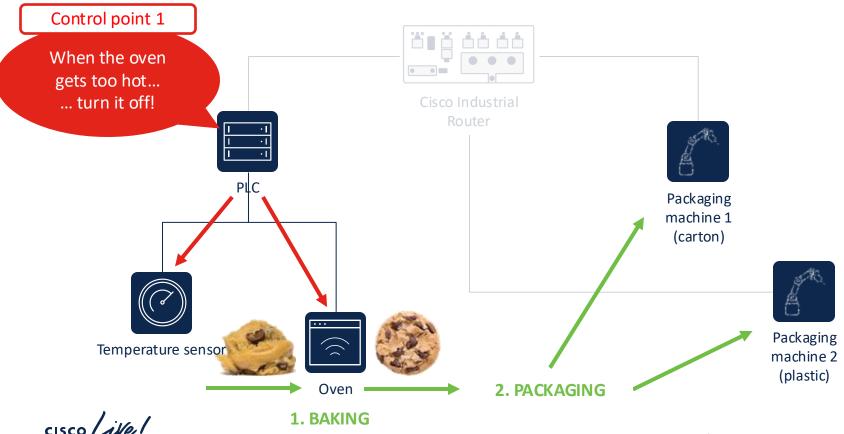


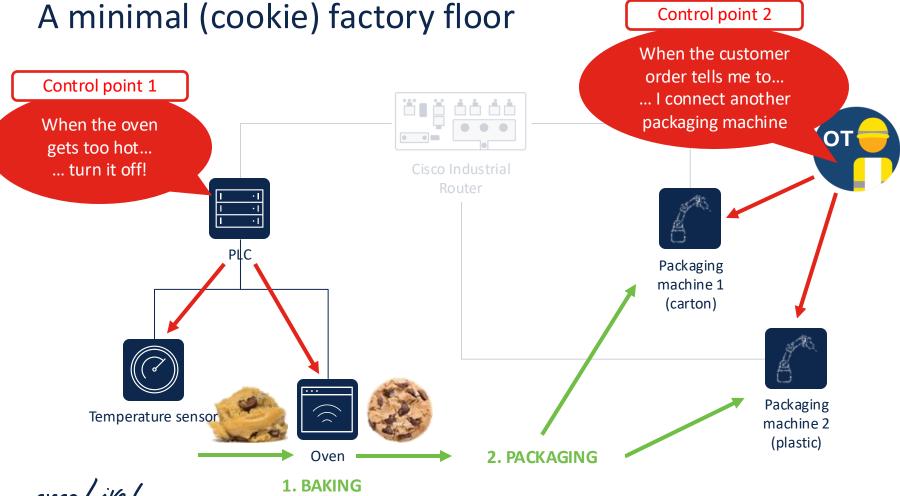


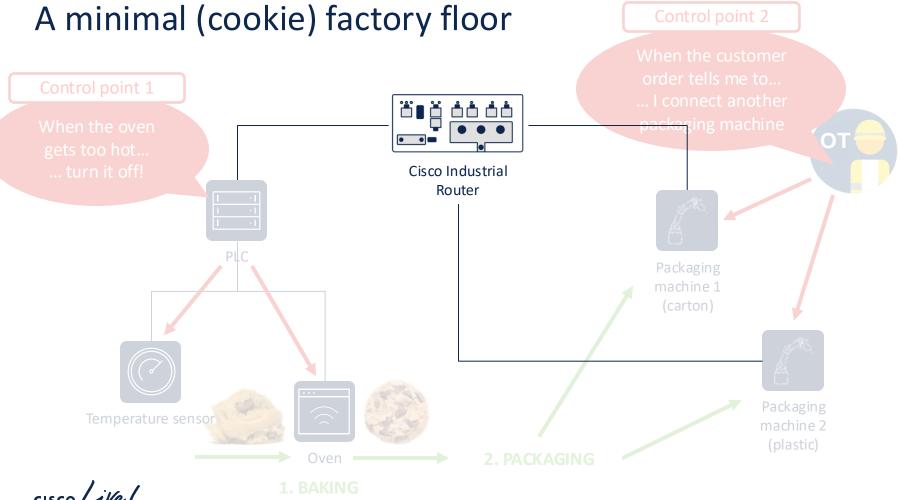


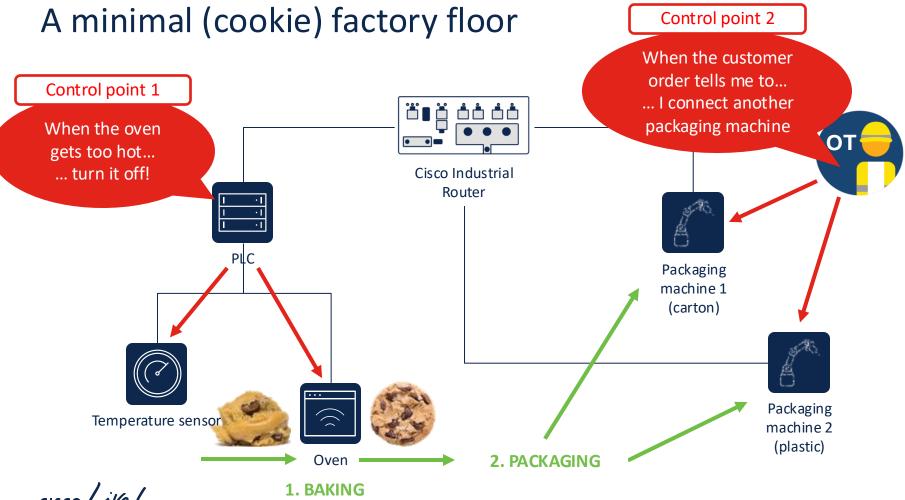






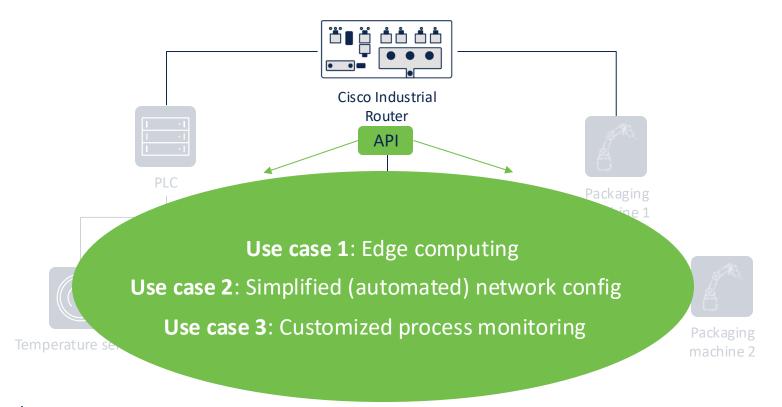






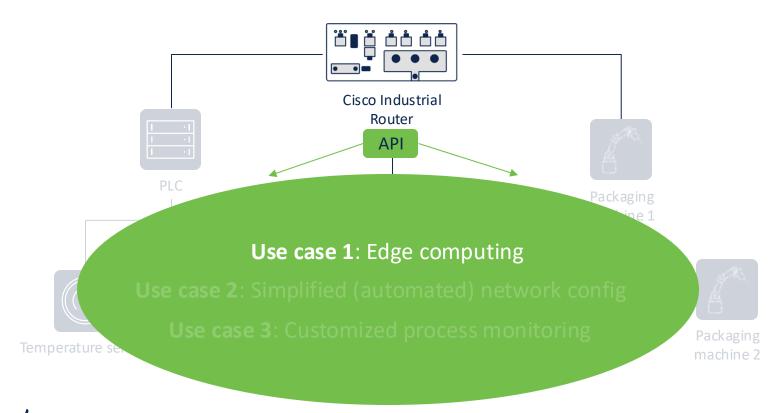
A minimal (cookie) factory floor Control point 2 Control point 1 Let's optimize this process aging nine 1 using APIs!

Our agenda for today has 3 main use cases.



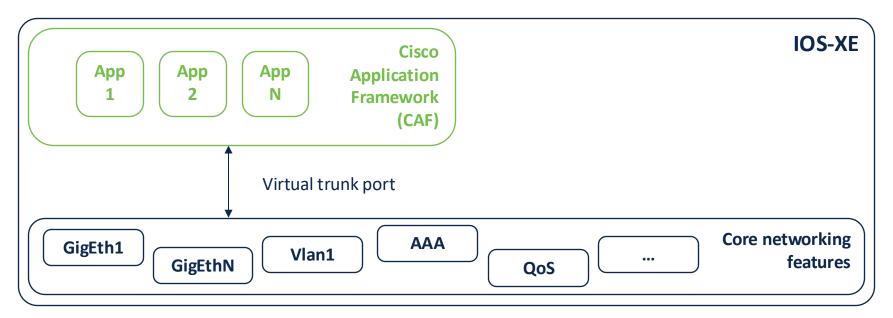
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Our agenda for today has 3 main use cases.



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Cisco networking software has different modules.

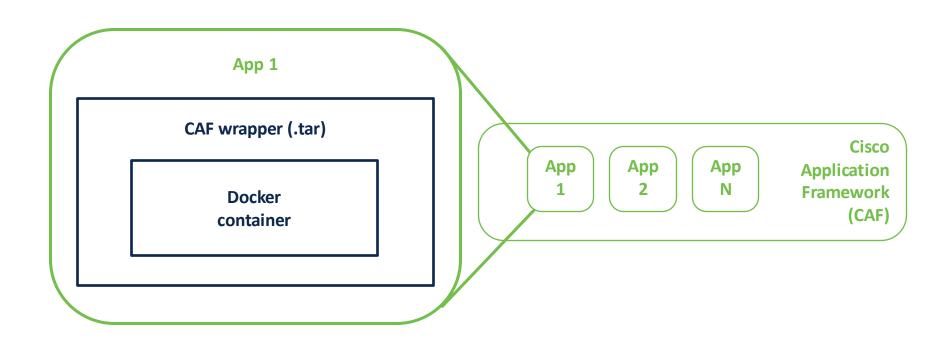


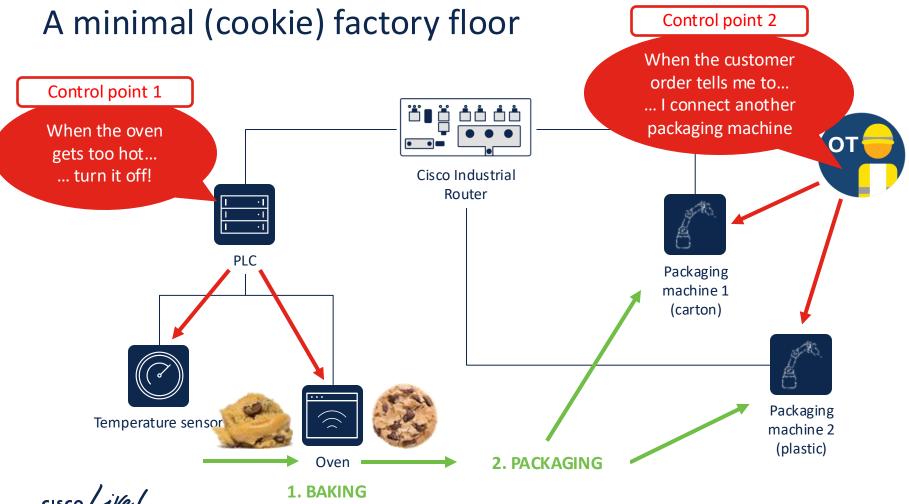


Cisco Industrial Router/Switch/...

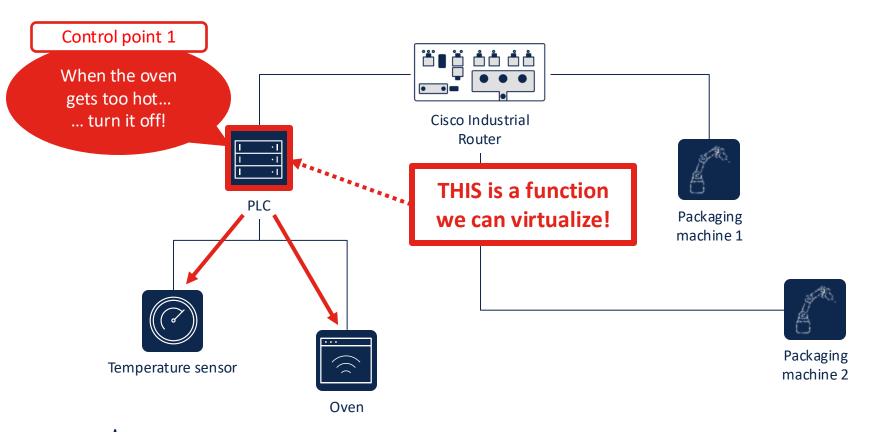


Within an edge application, there is simply Docker.

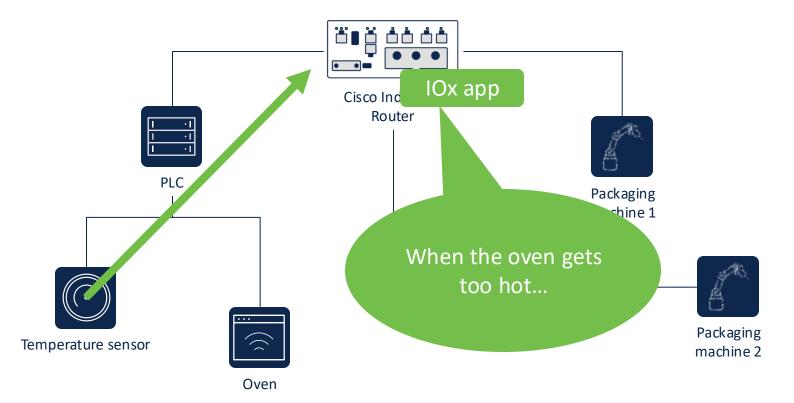




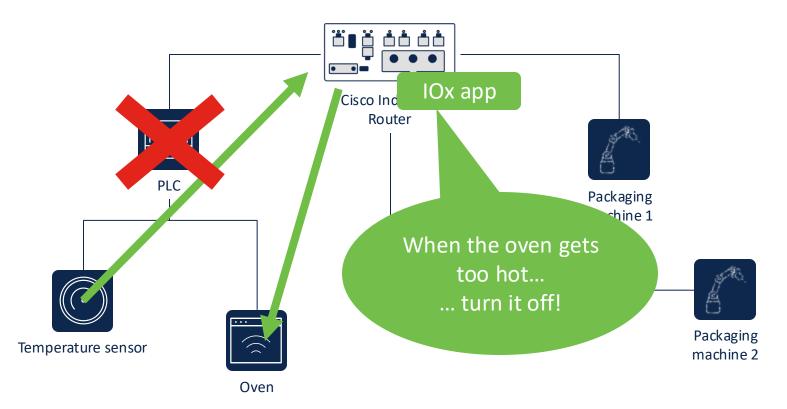
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"... it's not only about installing new sensors, smart devices, and smart processes. It's also about making these factories optimal for our employees."

machine 2



Read more: https://newsroom.cisco.com/c/r/newsroom/en/us/a/y2023/m11/audi-drives-the-future-of-manufacturing.html



Demo 1: Edge computing



If you had a magic wand...





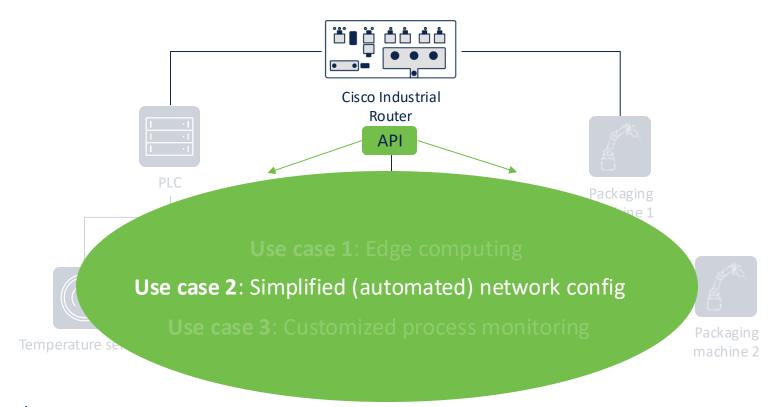




What other use cases could benefit from edge computing?

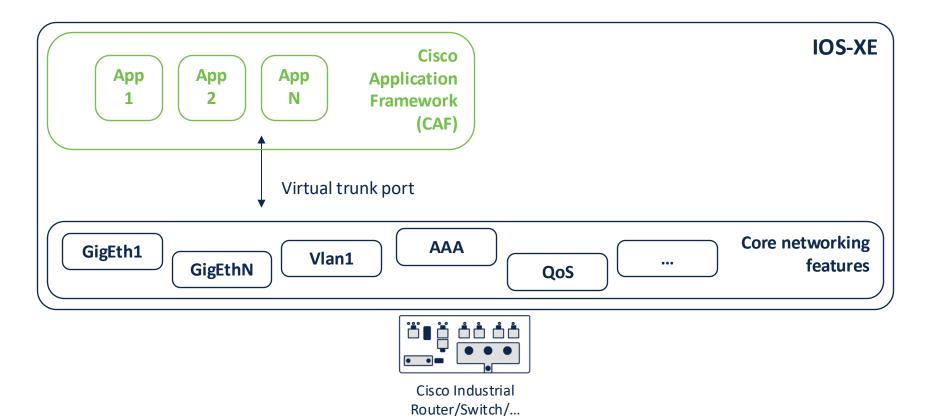
i Start presenting to display the poll results on this slide.

Our agenda for today has 3 main use cases.

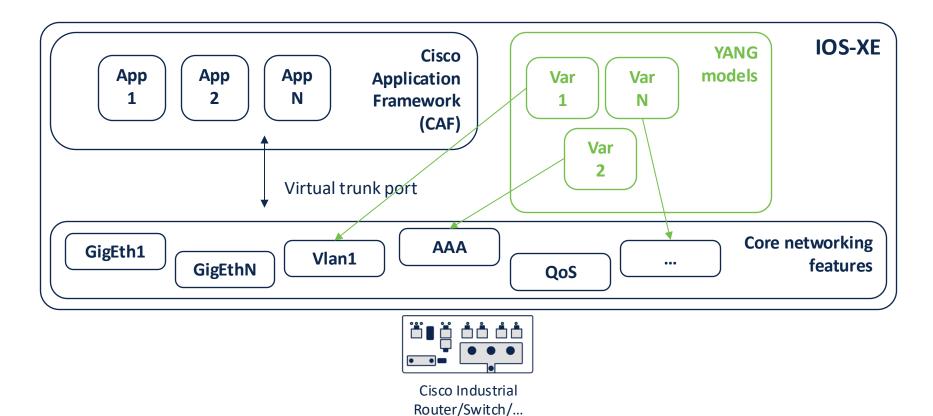


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Cisco networking software has different modules.

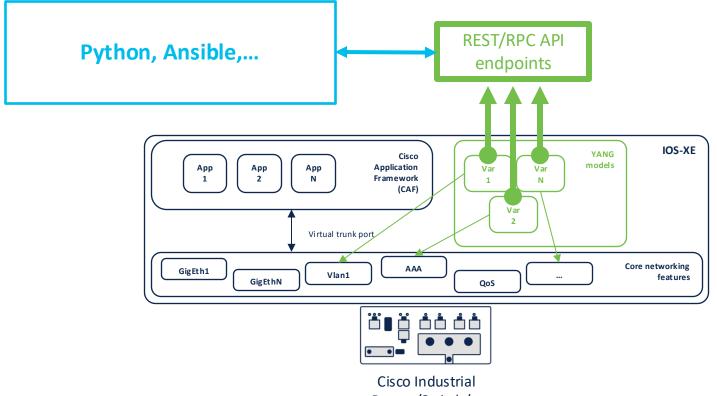


Cisco networking software has different modules.

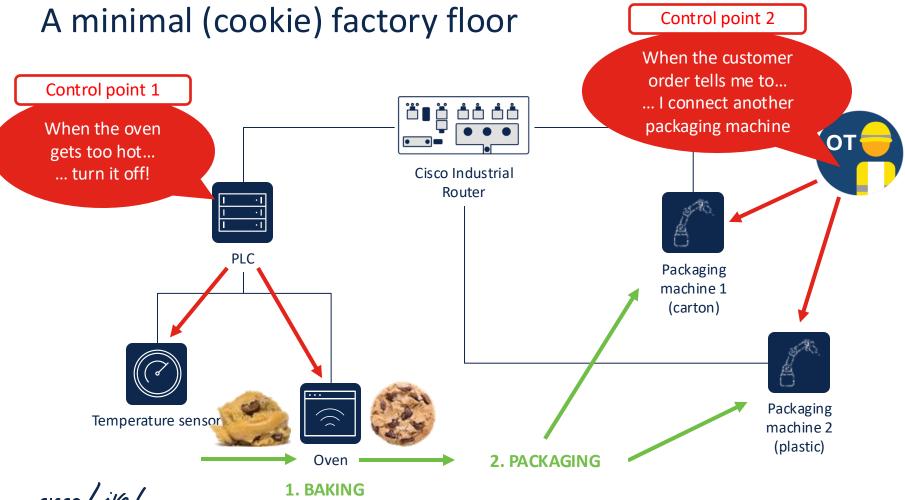


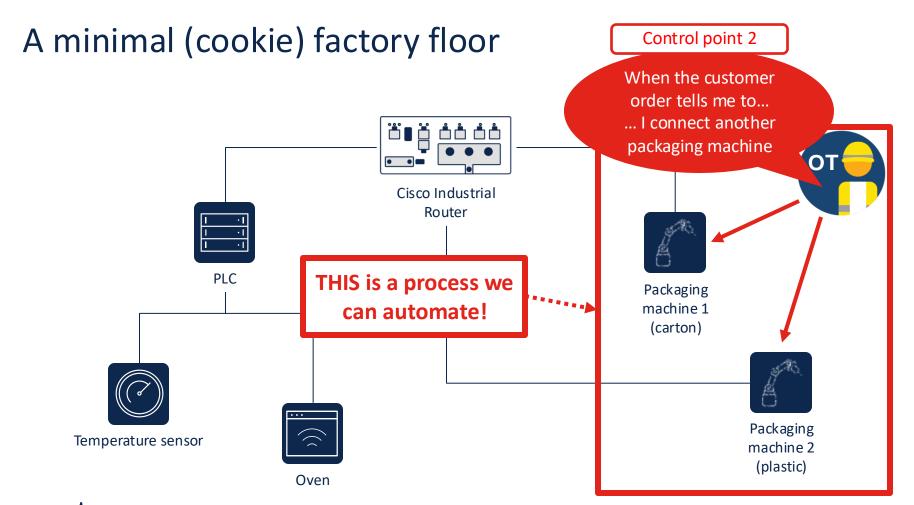


Our networking software has different modules.

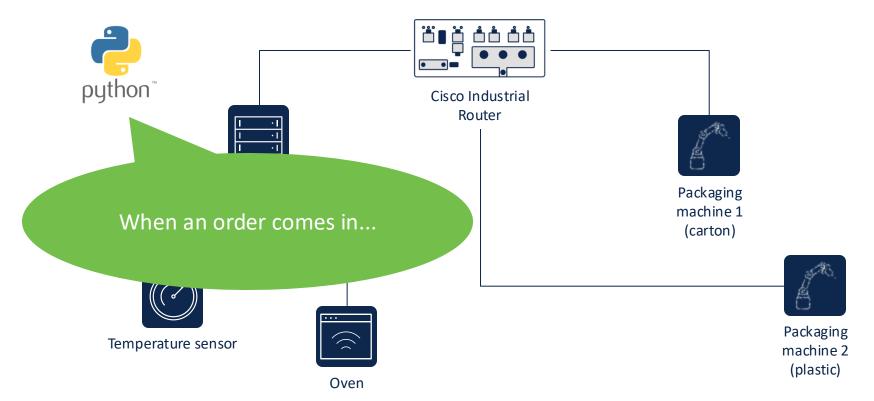




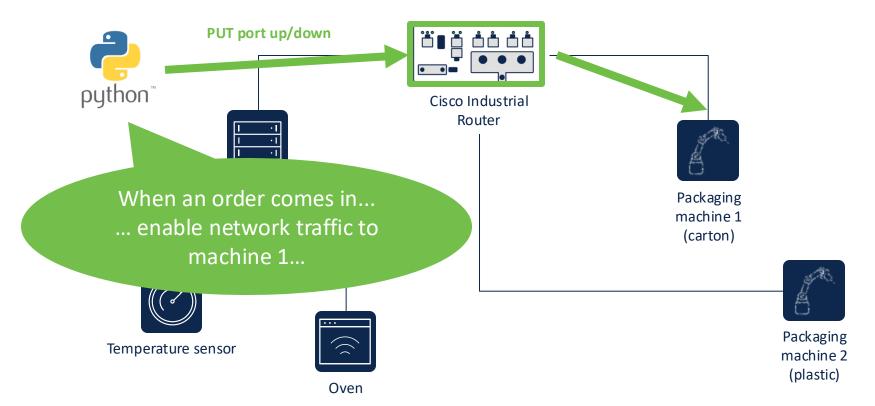




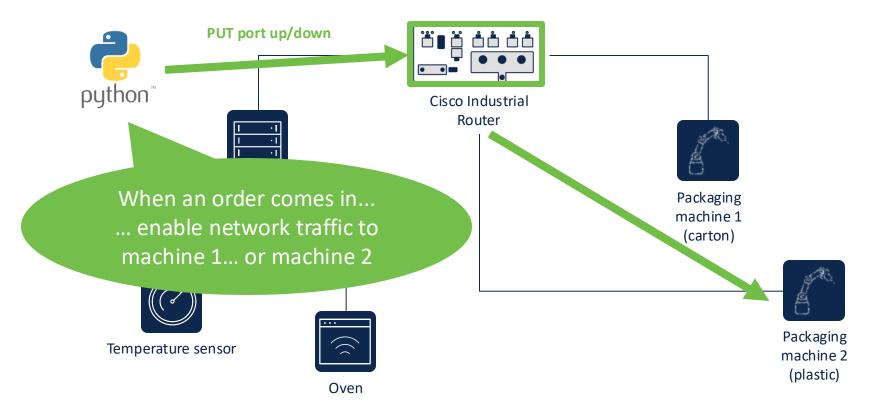
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Wow! I no longer have to risk my personal safety going to the factory floor, and we no longer cause downtime while switching packaging machines!



Packaging machine 2



Wow! I no longer have to risk my

"By using open-source tools for IT automation such as Ansible, we are able to provision switches, configure Cyber Vision, and update software automatically."



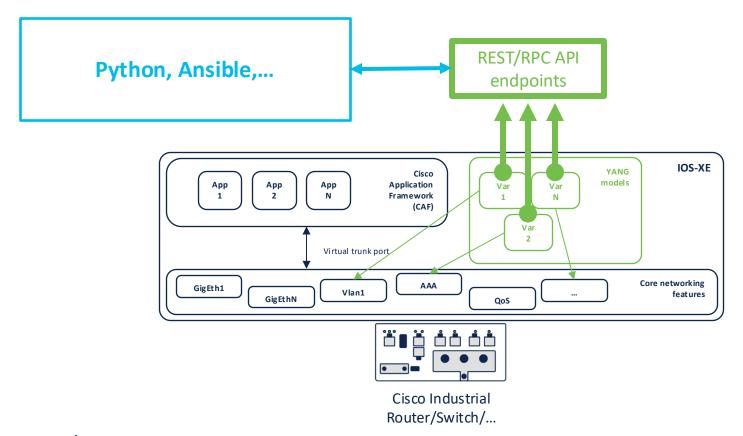
Read more: https://blogs.cisco.com/industrial-iot/e80-group-secures-its-agvs-with-cisco-industrial-solutions-and-italtel-system-integration

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Demo 2: Device-level APIs

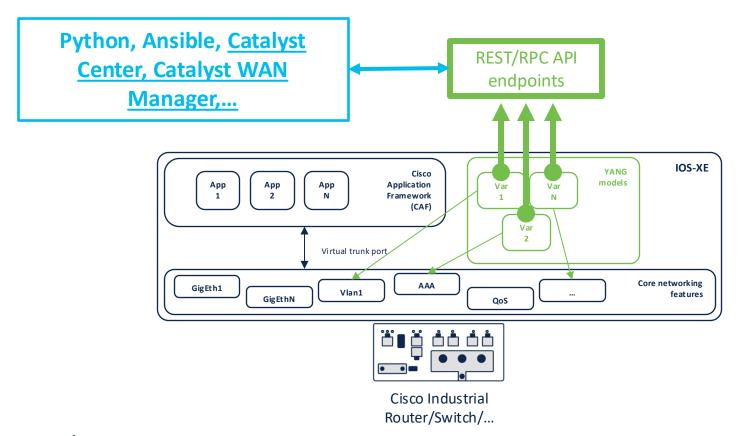


Cisco networking software has different modules.



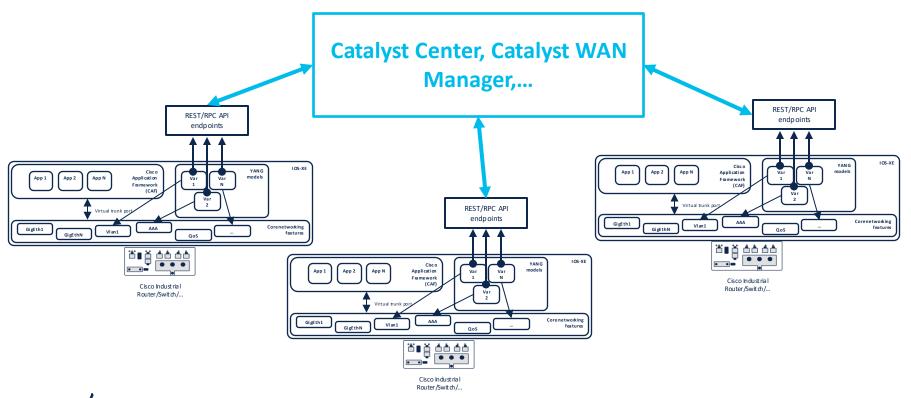


Cisco networking software has different modules.



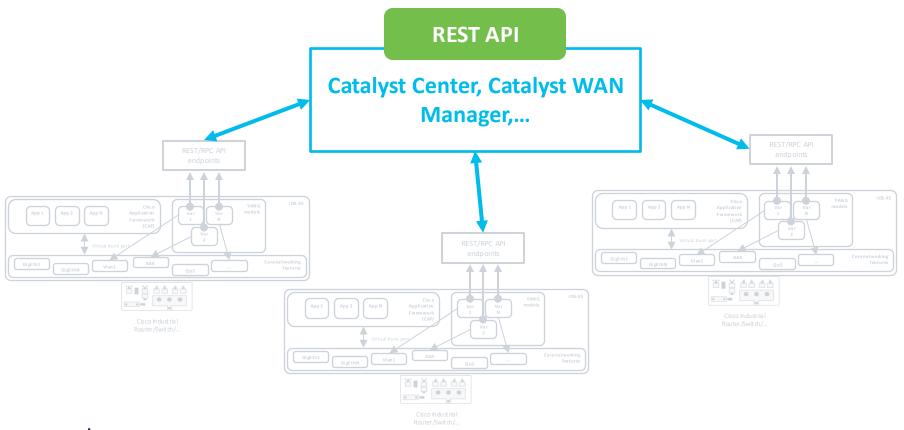


Controllers are at the core of the network.



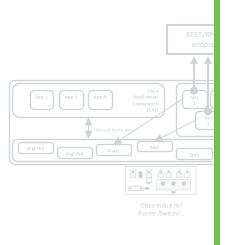
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Controller APIs are at the core of the network.



Controller APIs are at the core of the network.

REST API

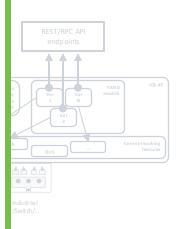


Monitoring

- Device/client/application health monitoring
 - Alert monitoring
 - Al-powered network insights,...

Configuration

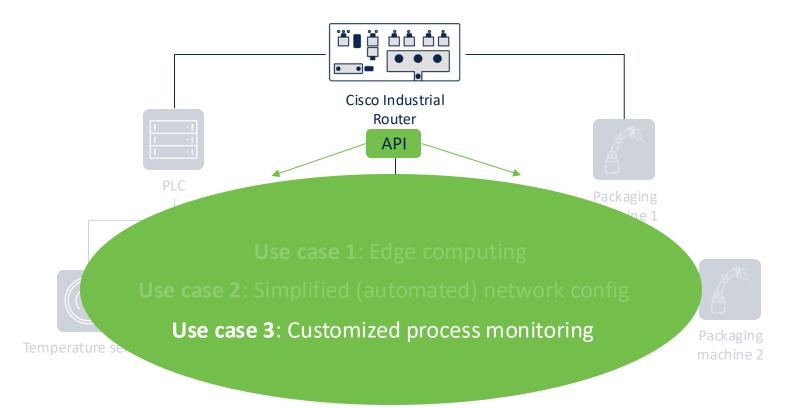
- Template configuration/push
- Al-assisted issue resolution
- Software image upgrades,...

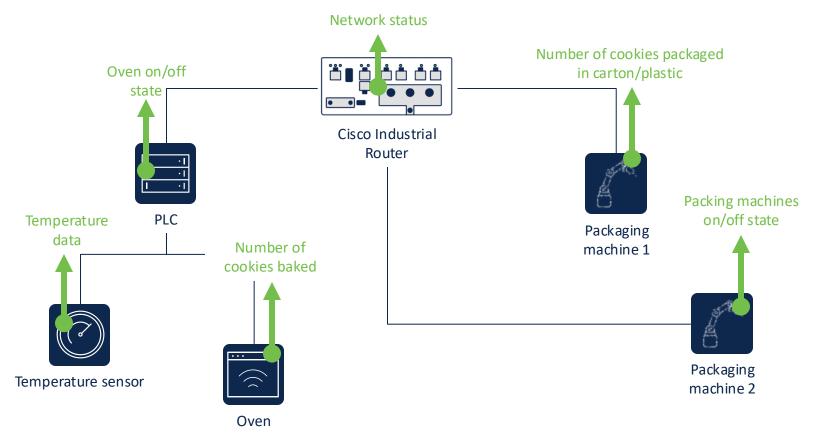


Cisco Industria I Router/Switch/.. Demo 3: Controller-level APIs

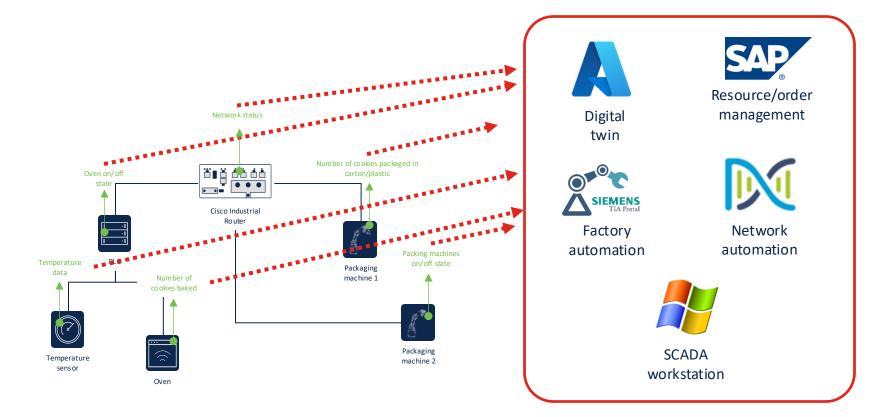


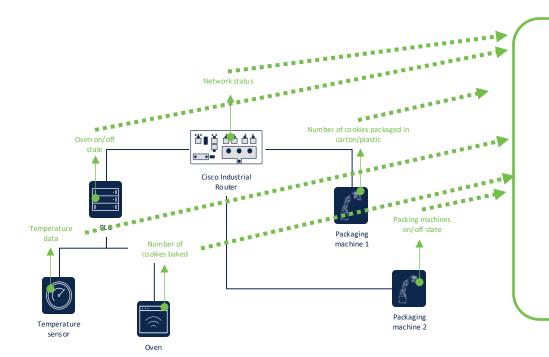
Our agenda for today has 3 main use cases.











Centralized monitoring application using APIs







Learn more: https://video.cisco.com/detail/video/6346963137112

Demo 4: Process monitoring

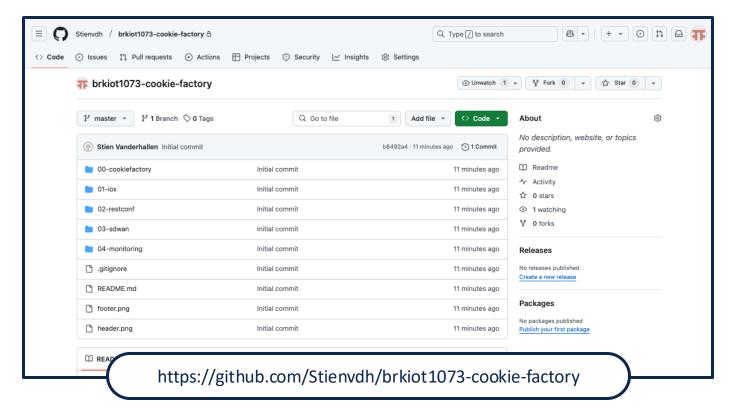




Key takeaways

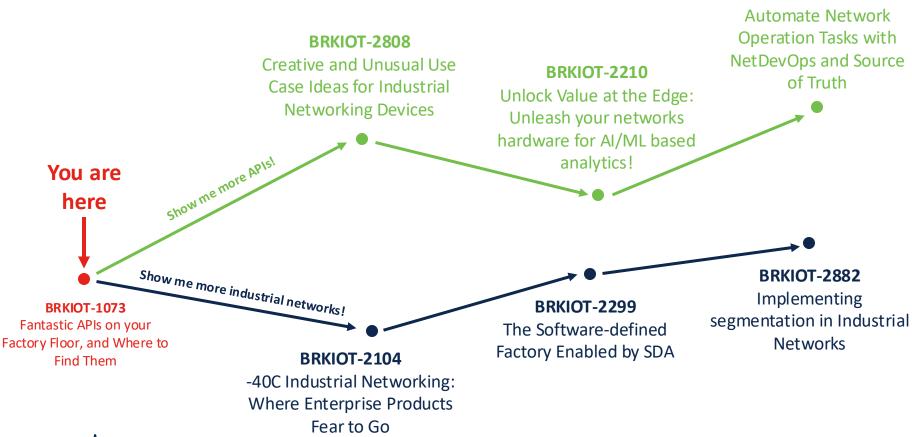
- The industrial network can enable higher efficiency, less downtime, and increased safety on the factory floor.
- Using APIs, we can achieve those outcomes in a way that is optimal for our specific industrial processes.
- Cisco Industrial Networking solutions are built to offer:
 - edge computing for process virtualization
 - device/controller-level APIs for network configuration automation
 - device/controller-level APIs for real-time process monitoring

And now... it's up to you!



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Where to go from here?



BRKOPS-2357

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Thank you



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