

Power worker comunication, shift scheduling, and task management with apps in Microsoft Teams

Tailored solutions built for manufacturing



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Streamline common frontline workflows using apps in Teams

Connect everyone in the flow of work with collaborative apps tailored for manufacturing. Apps in Teams help everyone better meet the demands associated with shift handoffs and task management by connecting them to the information, expertise, and tools they need to collaborate and get work done all in one place.

Scenario

- · Facilitating a seamless shift handoff
 - Creating a unified space for frontline workers to share information and keep managers in the loop.

For this scenario

- \cdot Scenario vision
- · Primary persona
- · Scenario storyboard
- Solution design best practices
- Solution architecture



Facilitating a seamless shift handoff



Scenario vision

Context



Plant worker (PW) Daniela works the morning shift at Contoso Manufacturing. She helps ensure that production lines are running as expected and on schedule.



Plant worker Babak works the shift after Daniela. Without a process for shift handoff, Babak doesn't know what Daniela did—or didn't—accomplish during her shift. He'll have to ask around or start tasks from scratch.



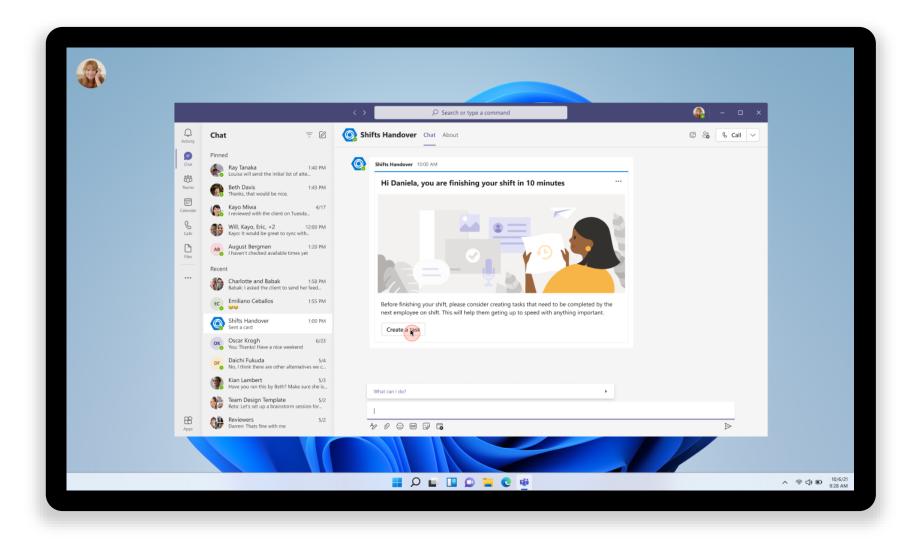
Plant manager Ray oversees all PWs at Contoso Manufacturing. He relies on passing in-person communication or one-off emails for PW status updates.

Current state

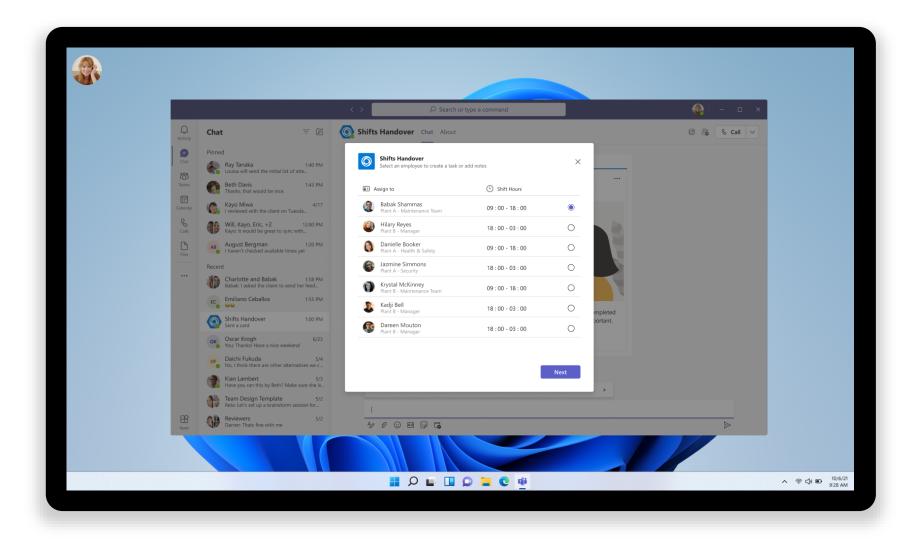
Future state

	PW Daniela doesn't know who is taking over after her shift, therefore she can't share important information, like which tasks still need to be completed, or alert them to a machine problem she uncovered.	~	PW Daniela receives a notification before her shift ends, telling her Babak is next on shift. The notification reminds her to add shift notes and assign tasks that still need to be completed.
	PW Babak must spend the first 30 minutes getting up to speed with everything that is going on with the production line.	~	PW Babak receives a notification when his shift starts. In one view, he checks Daniela's shift notes, sees tasks assigned to him, and learns about a machine problem she uncovered.
4	PW Babak discovers a problem with one of the machines that calls for urgent repair. He doesn't know if Daniela knew about this, or if she initiated any maintenance so he must halt the production line, putting Contoso Manufacturing behind schedule.	~	PW Babak picks up where Daniela left off solving the machine problem. Babak can quickly finish fixing the issue and note his actions in the task Daniela assigned to, all without disrupting production.
A	Plant manager Ray doesn't have any digital notes from Daniela either. He wastes time trying to track down handwritten notes about the machine problem.	~	Plant manager Ray checks in on all PW shift notes, task completion status, and reviews who is scheduled for the day all through Teams. He notices Daniela and Babak collaborated across shifts to solve a machine issue. Ray sends them both a "thank you" praise via group chat.

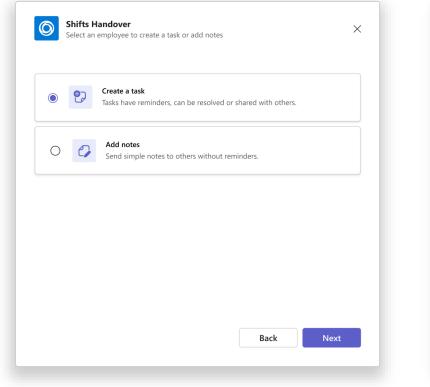
Automate end-of-shift notifications for a smooth handoff

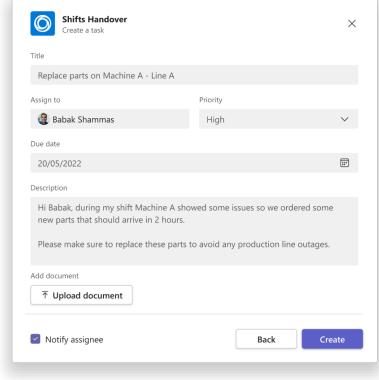


Get an overview of who is scheduled for the day, their role, and shift hours to easily assign tasks to the right person

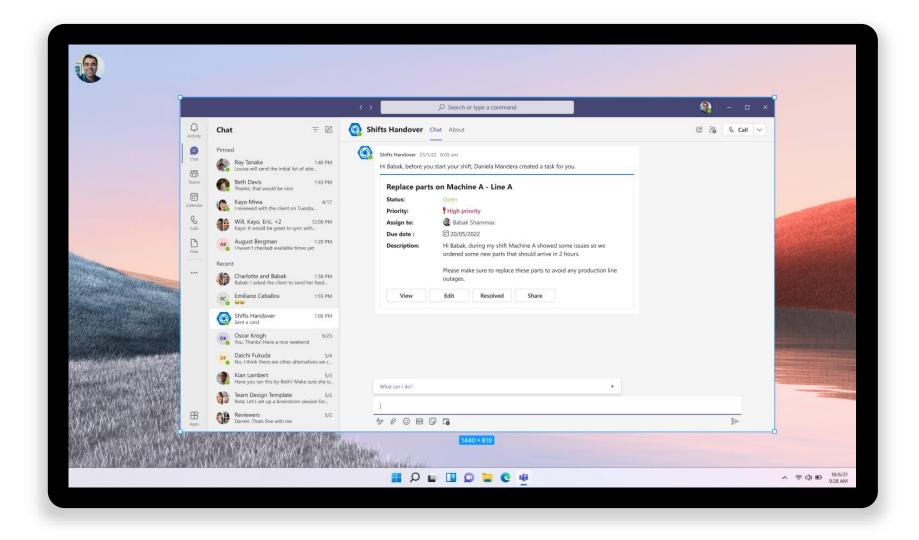


Use a task template to help ensure plant workers have everything they need to get their work done





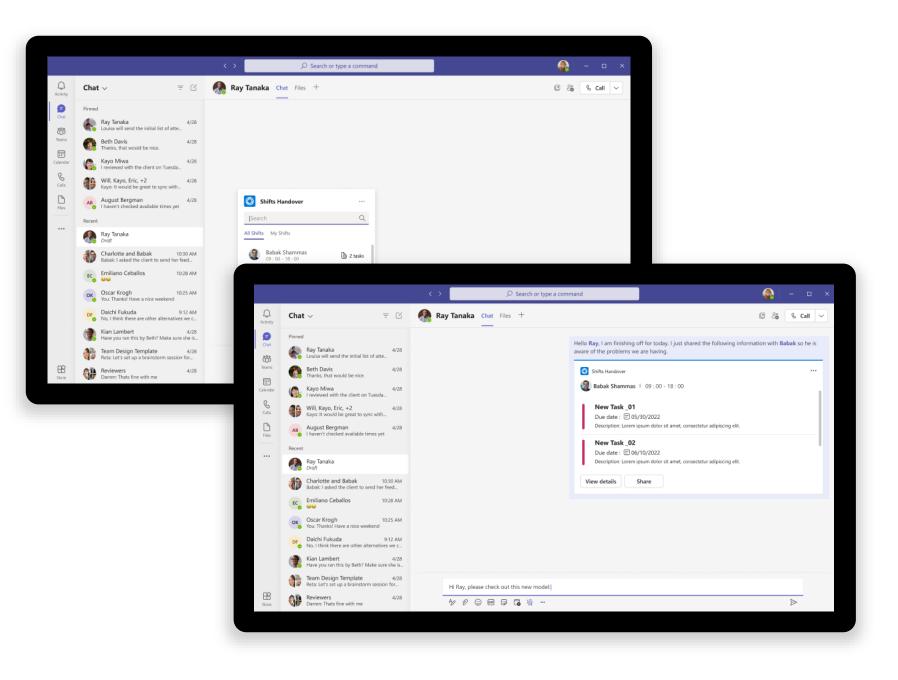
Boost worker productivity by giving them an overview of assigned tasks before their shift starts



Keep managers in the loop with a dashboard of all tasks assigned for the day

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Q. Activity	Shifts Handover	Tab Tab Tab		Ø ···				
(F) Chat	+ Add shift 🛛 😨 Cr	reate new task			= Filter	Find	٩	
COO Teams	▼ Teams	All shifts						
	All	E Name and title	දිදු Title	Shift hours	Tasks	C Notes		
Calendar	Health and Safety Team Manteinance Team	Babak Shammas	Plant A - Maintenance Team	09:00-18:00	5 tasks	10 Notes		
Calls	▪ My Lists	illary Reyes	Plant B - Manager	18:00-03:00	5 tasks	10 Notes		
Files	Assigned to me	Danielle Booker	Plat A - Health & Safety	09:00-18:00	5 tasks	10 Notes		
	Imporant	Jazmine Simmons	Plat A - Security	18 : 00 - 03 : 00	5 tasks	10 Notes		
Shifts Handover		Krystal McKinney	Plat B - Maintenance Team	09:00-18:00	5 tasks	10 Notes		
		🐌 Kadji Bell	Plant B - Manager	18:00-03:00	5 tasks	10 Notes		
		Dareen Mouton	Plant B - Manager	18:00-03:00	5 tasks	10 Notes		
E Apos								

Triage issues faster by connecting with experts right from a chat including on the go via the mobile app



Solution highlights – best practices

Key solution design considerations

Platform extension points

- <u>Bots</u> send proactive notifications to plant workers using <u>Adaptive</u> <u>Cards</u>, this bot helps support card refreshes.
- **<u>Shifts</u>** app is a simple way to store shift details using out-of-the-box functionality.
- **<u>Planner</u>** is used to store tasks that needs to be completed by PWs.
- **Personal app** is used by plant mangers, giving them an overview of all information shared between PWs.
- <u>Message extension</u> is used to search and share shift information with others.

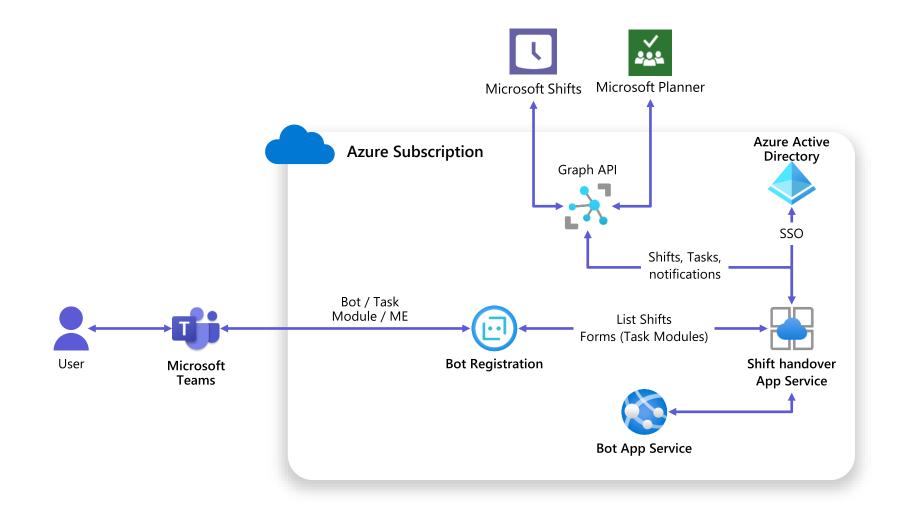
User experience

- <u>Card refreshes</u> update a single card's status rather than sending multiple cards for the same request, improving readability and streamlining the number of updates the user receives.
- **Proactive messages** are sent before PWs finish or start a shift.

Graph APIs

- <u>Send chat message</u> lets you send proactive message to users.
- List shift and Get shift allow you to get information about shifts.
- <u>Create planner task</u> enables you to create tasks.

Solution architecture



Thank you

