Sight Machine Shift Handoff Agent

Generates shift reports in seconds using natural language prompts and agents

Shift handoff reporting, an essential part of daily shift change meetings, is a critical but time-intensive process that requires manual data collection from whiteboards and multiple systems. Traditional reports take at least 5 minutes per machine, which translates to a significant amount of time spent on the line for each shift and are typically stored in Excel or Word files with limited reuse.

Sight Machine's Shift Handoff Agent automates this process through a natural language interface and integrated into Microsoft's M365 Copilot. Operators use simple prompts to generate complete shift reports in seconds instead of manually gathering scattered data.

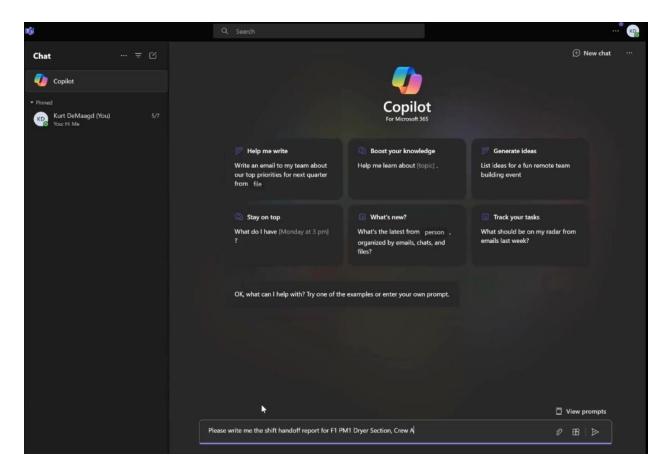
The Agent produces a ready-to-use report that can be shared in shift change meetings immediately. The report includes not only key KPI values and metrics but also provides insights into factors that improved or reduced performance during the shift.

Individual operator feedback can also be incorporated into the report using a human-in-the-loop workflow where they enter their own comments to the automated report for a complete final report. The report can be easily stored in a centralized location, for further analysis.

How the Shift Handoff Agent Works

The Shift Handoff Agent employs a multi-agent architecture consisting of an Orchestrator Agent that coordinates system operations and manages data flow between components, an Analysis Agent that interfaces with Sight Machine's native CoPilot system to leverage underlying machine learning algorithms, and an Intelligence layer that processes data to identify primary factors affecting production performance.

M365 CoPilot integrates with Sight Machine's production systems through standardized REST API endpoints to retrieve key performance indicator (KPI) values and operational metrics in real-time.



The Shift Handoff agent provides shift-level analysis by:

- 1. Collecting quantitative performance data through API integration
- 2. Applying machine learning models to identify production influencers
- 3. Generating qualitative insights regarding shift performance and operational events
- 4. Delivering contextual information to support operational decision-making

Accessing the Agent

Operators can use simple prompts to specify the target machine and shift in M365 CoPilot; the Agent then automatically generates a comprehensive report using the multi-agent architecture described above.

Operators can enrich the automated reports with contextual insights through the "Add Operator Comments" feature. This human-in-the-loop approach combines automated efficiency with valuable operator expertise that pure automation cannot capture.

