IFS Maintenix™ Production, Planning & Control

Optimize turnaround times for complex, heavy maintenance visits with IFS Maintenix™ Production, Planning & Control

Heavy maintenance checks are an integral part of ensuring aircraft airworthiness, fleet safety and regulatory compliance. Undertaking such checks can be both cost- and resource-intensive, with aircraft often remaining out-of-service for weeks or months on end, and requiring thousands of man-hours and millions of dollars to complete.

Meeting or exceeding contractual aircraft availability commitments demands a heavy maintenance planning capability that can synchronize changes in real-time maintenance, inventory and labor resource information to deliver optimal plans, while remaining flexible enough to adapt to non-routine tasks and sudden changes in resource availability. Given the wide range of inputs, the number of departments impacted and the critical importance of a holistic view, heavy maintenance represents a significant area of opportunity for IT-enabled automation.

PP&C makes it easy for planners to efficiently create, schedule and manage visit plans drawing on multiple inputs across various maintenance departments. The solution's unique ability to compare dynamic heavy maintenance labor demands with an organization's typical resource availability enables planners to arrange visits that can best deliver on aircraft turnaround times.

Capitalizing on an intuitive graphical representation of the entire heavy maintenance visit, planners can easily monitor and manage multiple concurrent maintenance activities. All tasks and milestones are set against a critical path for total visibility across the entire visit, helping planners quickly identify and resolve scheduling conflicts and resource constraints to mitigate potential delays. Changes made to the work plan are dynamically updated across the visit to better understand impact, and ensure a coordinated approach.

- Rationalizes the creation, scheduling and management of heavy maintenance visit plans drawing on multiple inputs across maintenance departments.
- Improves efficiencies through the use of sophisticated baseline plan templates that incorporate latest best practices.
- Compares labor demands with resource availability to identify the most effective task sequencing strategy to turning around aircraft on time and on budget.
- Supports "on the fly" scenario planning to evaluate projected impacts on maintenance execution before locking on best approach.
- Offers advanced visualization tools that facilitate concurrent plan management and help easily identify and resolve potential downstream issues.
- Integrates seamlessly with maintenance execution and material supply functions, enabling real-time synchronization of production changes across the maintenance management chain.

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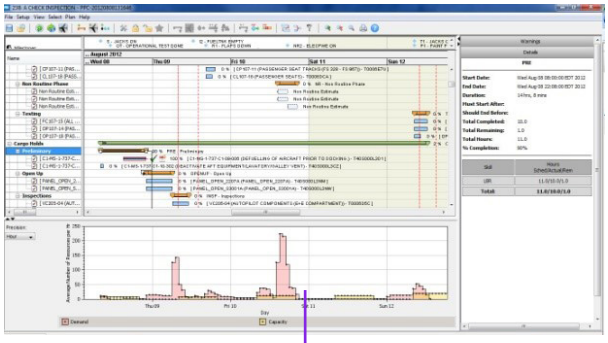
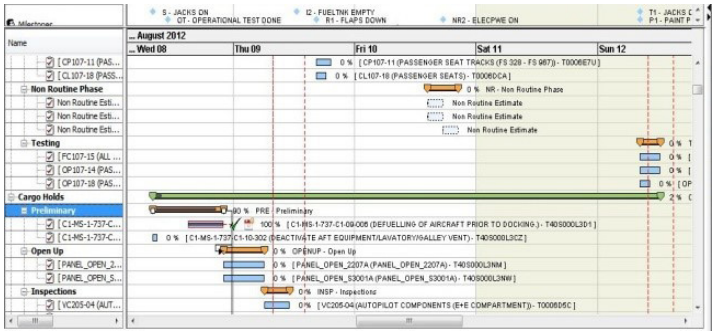


Comprehensive view of planned heavy maintenance tasks and milestones

Resource utilization graphs to quickly spot potential bottlenecks



Non-routine work estimations and reporting for better plan predictability

Greater predictability

PP&C allows for more accurate planning and proactive reaction to unforeseen events and non-routine work. Through specially-built visual charting capabilities, heavy maintenance planners are able to easily identify the downstream effects of adjustments made to the schedule to determine the best course of action. With non-routine work often amounting to more than half of the total visit effort, predictable planning delivers significant costs savings.

More efficient planning

The software's sophisticated planning framework delivers structured templates that can be used for similar heavy maintenance visits. With an established baseline, planners are able to plan by exception to account for the specific needs of each individual visit. The baseline template is then systematically updated and improved as the organization and practice evolve.

Unparalleled visibility

An entire maintenance check can be graphically represented in an integrated view, enabling planners to build work packages against a predefined baseline, and production controllers to monitor progress in real time to ensure work is on schedule and on budget. Job card start and finish dates are summarized using Gantt charts, providing at-a-glance views of the structure of the work elements within the project. Facility and resource utilization can be analyzed through a Resource Loading Histogram, providing quick visuals of where planned work will exceed capacity.

Features

- Repeatable planning using intuitive production plan templates based on best practices
- Accurate non-routine work estimation for better plan predictability
- Automatic job card sequencing according to dependencies, enabling more precise part demand generation
- Shift planning, job card and resource allocation for seamless integration with maintenance execution
- Real-time monitoring of maintenance work package progress to ensure schedule and budget adherence
- Critical path identification, resource loading histograms and non-routine analysis for faster recognition of maintenance bottlenecks
- "One button" recalibration of plans to reflect impact of changes required due to non-routine work
- Advanced reporting using sophisticated filtering capabilities
- Production plan XML exports facilitating plan analysis using third-party systems

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