



Service above and beyond

4 Strategies to maximize savings and streamline engine lifecycle management



Managing aircraft engines and components is an incredibly complex and high-stakes endeavor. Every time you pull an engine off-wing for maintenance, you're looking at a hefty bill—often in the millions of dollars. But it's not just the maintenance costs that can be wildly expensive; the opportunity costs—lost revenue, grounded planes, disrupted schedules—can cost even more. Without careful planning, these expenses can quickly spiral out of control, wreaking havoc on your budget.

That's where Engine Fleet Planning and Costing (EFPAC) comes in. Think of EFPAC as your crystal ball in the battle to keep engine maintenance costs down. It's a comprehensive tool that pulls together all the data you need—technical, operational, and financial—into one easy-to-use platform. With EFPAC, you can view multiple scenarios to “predict the future” of engine lifecycle management. Then, you make decisions that “change the future” to ensure your engines continue to run smoothly and provide you with real cost-savings.

Let's dive into four strategies EFPAC offers that can help you slash costs and streamline your engine management.



Strategy 1: Maximize Your Engine Schedules with Multiple Scenarios

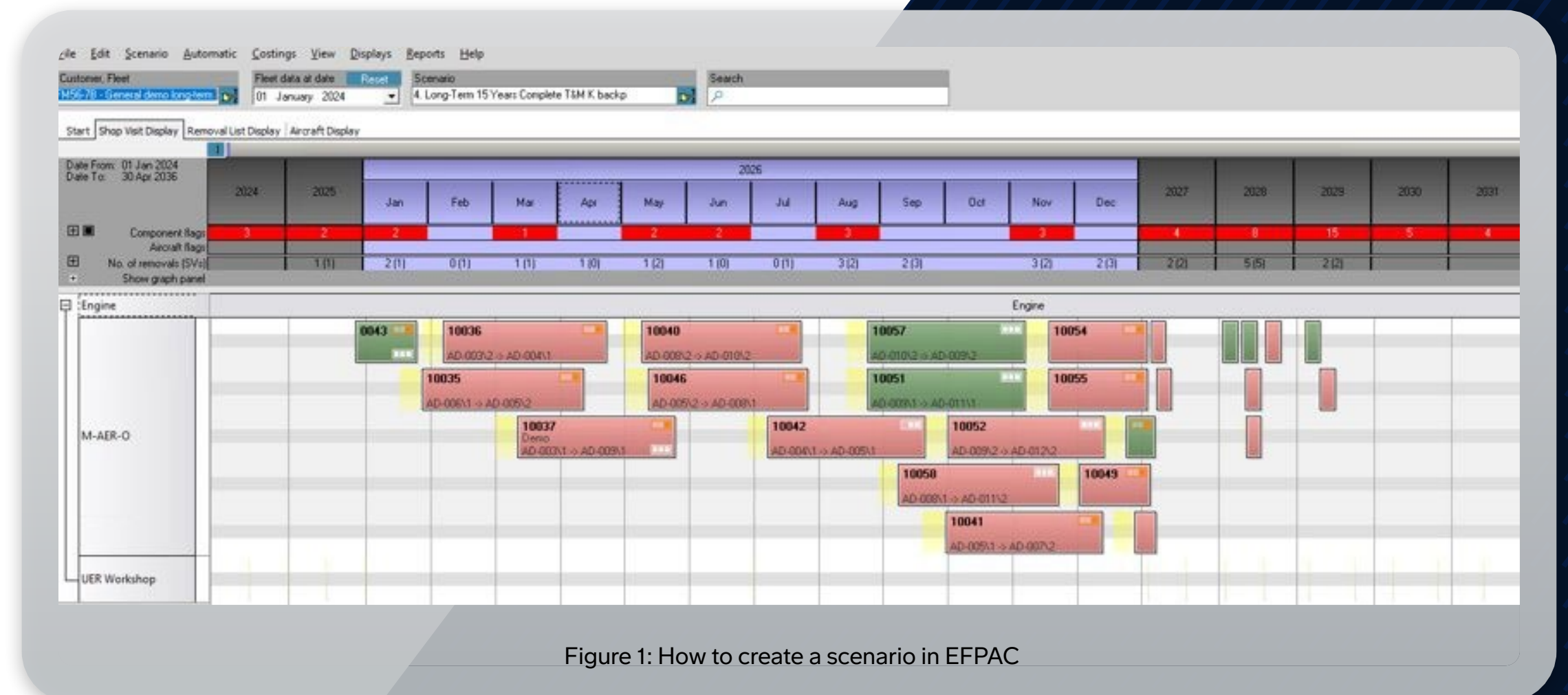
Imagine you're planning your engine maintenance the old-school way, relying on simple spreadsheets. You invest days crafting a single plan, only to realize it overlooks crucial factors, like an engine failing earlier than expected or a sudden budget crunch. With so many variables, you're left guessing about the future. And that guesswork could end up costing you dearly, through unexpected maintenance expenses or costly downtime.

EFPAC changes the game. It lets you run multiple scenarios and compare them side-by-side. Here are a few examples:

- See how different maintenance schedules would impact your cash flow.
- Determine the effects and costs if you delay a shop visit.
- View potential outcomes if you introduce new aircraft into the fleet at different intervals.
- How would a new AD or SB impact the scheduling of engine shop visits.

EFPAC gives you that flexibility, allowing you to choose the most cost-effective plan that keeps your engines humming along.

Instead of crossing your fingers and hoping things will work out, you can now make confident, informed decisions. You're no longer wrangling spreadsheets and doing guesswork. Instead, in just a few clicks, you are comparing scenarios to see the best way to save time and money with real numbers.



Strategy 2: Eliminate Overspending by Developing Proactive Engine Shop Visit Plans

Picture this: You’re planning engine shop visits using spreadsheets. It’s a tedious process that doesn’t account for all the variables, like operational constraints or unexpected technical issues. You end up with a plan that might look good on paper, but falls apart when reality hits, forcing you to spend more money and time to fix the problems later. Not only does this approach take days or even weeks to develop, but it also lacks the flexibility to adapt to new variables as they arise.

EFPAC improve the timing uncertainty around shop visits by having an accurate, yet flexible plan. It considers all the factors that could affect your engine’s maintenance needs, from technical requirements to financial constraints. With everything integrated into one platform, you can effortlessly update your plans real-time and when appropriate, e.g. new SB or AD, unscheduled engines removals (UERs), thus keeping you consistently ahead of the curve. With EFPAC, you create as many shop visit plans as you want, constantly searching for the optimum one; all your plans will remain stored in the solution.

Now, instead of reacting to maintenance issues as they pop up, you’re proactively managing them. This not only keeps your engines in top shape but also keeps your budget in check. No more overspending on emergency fixes—just smooth, efficient operations. In addition, EFPAC gives you the insights you need to make informed contract decisions. It compares the financial and

technical implications of each contract type, helping you understand which option offers the best value for your fleet. No more second-guessing—just clear, data-backed decisions to save your operation money and resources.

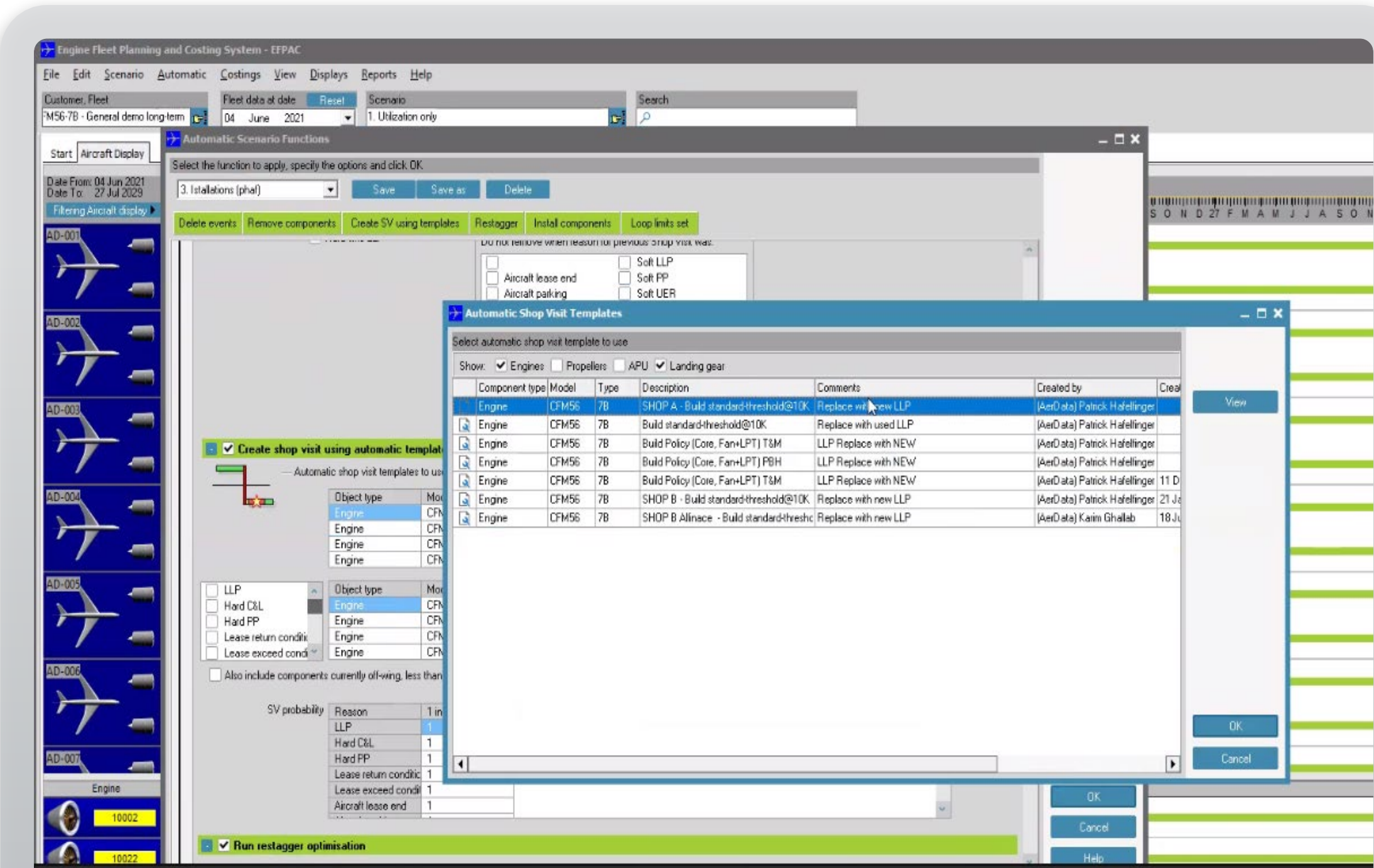


Figure 2: How to create scenarios to simulate engine shop visits

Strategy 3: Avoid Unexpected Surprises from Lease Returns or Fleet Phase-Outs

When returning an engine at the end of a lease, you know it can often be quite a challenge. You're under pressure to meet all the contract requirements without incurring significant lease return penalties. Without the right tools and data, it can become a bit too common for those penalties to occur.

With EFPAC, you can significantly reduce your lease return obligations and improve your ability to meet end-of-lease conditions. The tool provides a comprehensive snapshot of your engine's condition throughout its lifecycle, helping you understand exactly what's needed to meet lease requirements and how close the engine is to those goals. It also supports data-driven decisions on whether to extend a lease or return the engine, based on solid insights, not just intuition.

You're in control. You can avoid overspending, fulfill your lease obligations efficiently, and make informed choices about your fleet's future. EFPAC helps you maximize the value of every engine, every time.

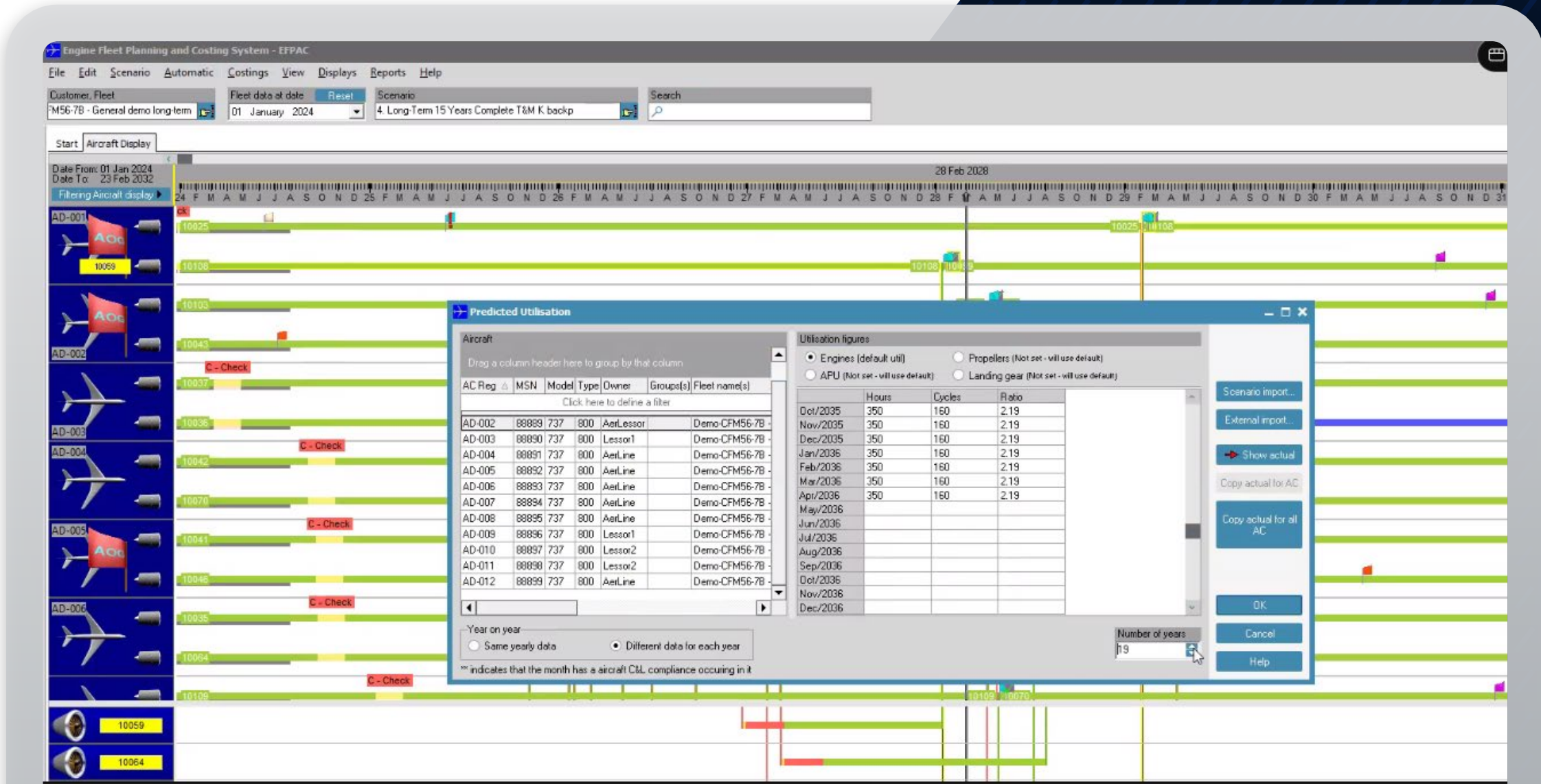


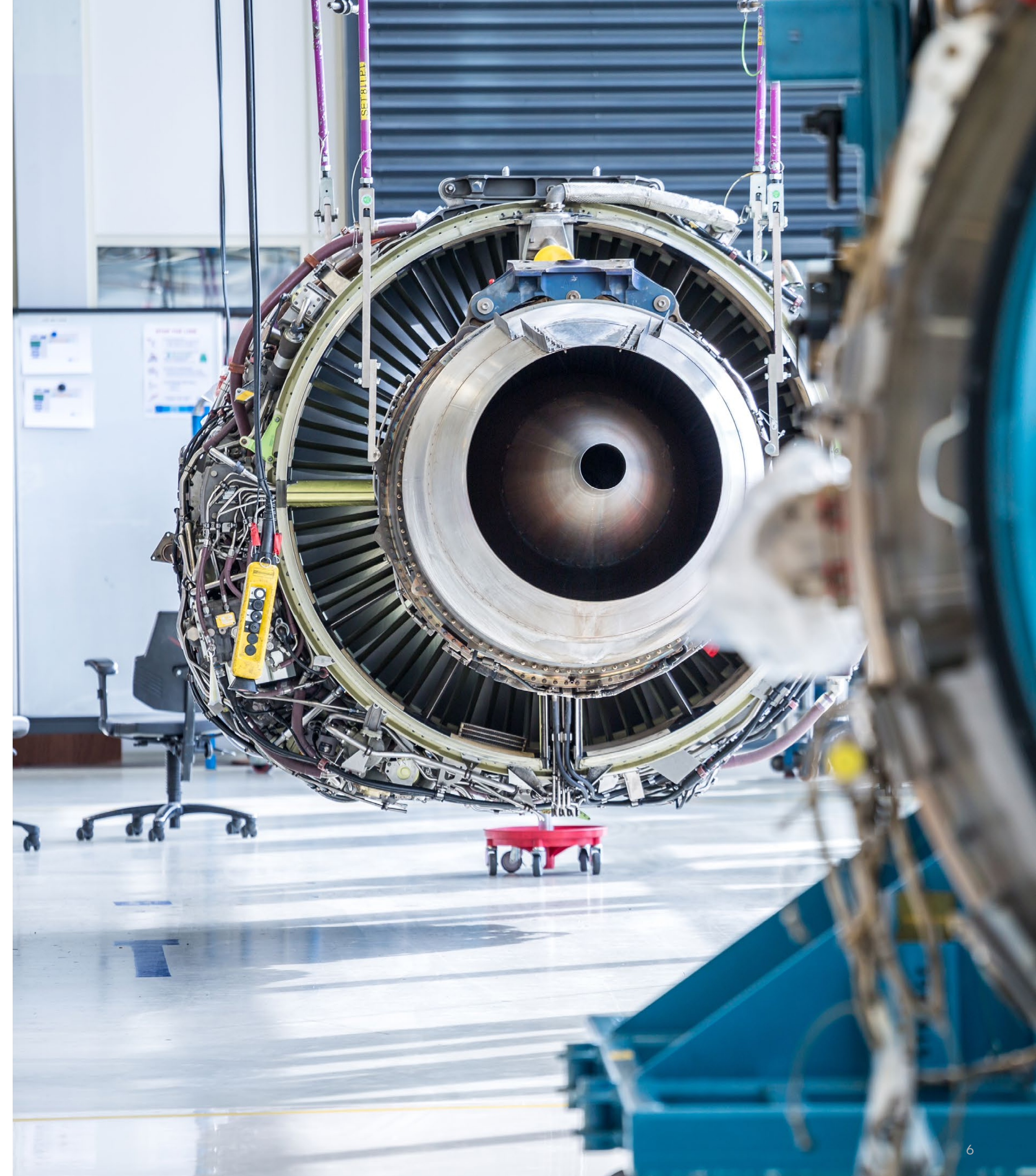
Figure 3: How to create a Predicted Utilization Plan in EFPAC

Strategy 4: Optimize Spare Engine Requirements

Having the right number of spare engines on hand is crucial to any operation. Without a tool like EFPAC, figuring out how many spare engines you need is more guesswork than science. It's all too easy to end up with too many spares, tying up capital in underutilized assets. Or even worse, you could not have enough, forcing you into expensive short-term leases when an engine is out of commission.

Again, EFPAC can be your crystal ball to predict the future. By analyzing your fleet's operational data alongside technical and financial considerations, it helps you determine exactly how many spare engines you need—and when you'll need them. This means you can avoid both the costs of overstocking and the costly headaches of scrambling for spares at the last minute.

With EFPAC, you're making smart, data-driven decisions about your spare engines. By factoring in the removal plan and budget forecast, you reduce reliance on short-term engine leases and enable better long-term planning, which helps cut unnecessary costs and avoid last-minute scrambles for replacement engines.



Interested in Learning More? Contact Us!

Managing engine lifecycles is frequently complex, but EFPAC simplifies the process. Whether you're optimizing engine schedules, handling lease returns, or determining the ideal number of spare engines, EFPAC is the “crystal ball” that can help you succeed. A total maintenance management solution that enables engineering, finance and planning departments to work together seamlessly, helping to take charge by viewing scenario-based future states so that you can make informed decisions that save money and resources. With EFPAC, you're not just managing engines—you're using models to predict engine lifecycles effectively, intelligently, and efficiently.

And EFPAC doesn't stop at engines. You can also use it to plan maintenance for APUs, landing gears, and other major components. Reach out to us today to discover how EFPAC can streamline engine maintenance, as well as many other aspects of your maintenance operations.