OVERVIEW

Aerospace and Defense Programs incorporate the latest advances in technology — whether in the concept phase of a new program or upgrading existing programs. The challenge companies face is in minimizing risk and addressing the unabated pressure to control costs and improve program affordability.

The program management solutions that support aerospace engineers and business teams have a significant role to play in successfully meeting this balancing act.
IMPROVING DELIVERY TO PLAN

In programs of all sizes, the root cause behind missed commitments in recent years reveals the use of immature technologies, the lack of an appropriate level of systems engineering discipline or overly aggressive targets as a result of optimistic proposals. Function creep is just one reason for numerous engineering changes implemented after a program is well under way. These late engineering changes may result in poor phase handoffs and weak execution because of poor communication and traceability. The impact to a program can be significant, negatively affecting performance, on-time delivery and costs.

Successful Program Managers must navigate through these obstacles which potentially threaten delivery to plan. Having a Program Management solution that integrates the schedule and work deliverables with the engineering product definition means program managers and team members from all disciplines see the program as a collective whole. Program managers with comprehensive and real-time program insight can analyze the implications of proposed or pending changes. And with integrated schedules and work deliverables program, the program benefits from real-time collaboration and improved handoffs across disciplines.

Aerospace Program Performance Using Legacy Tools

Program Challenges:
- Optimistic Proposal
- Execution Weakness
- Poor Phase Handoffs
- Requirements Flux

Deliverables:
- Completion
- Headcount
- Performance

Program Challenges:
- Optimistic Proposal
- Execution Weakness
- Poor Phase Handoffs
- Requirements Flux

% OF PROPOSAL PLAN

TIME

RFI RFP ATP SRR PDR CDR TRR FAI / Deliver

110
100
90

Aerospace Programs with Comprehensive Program Lifecycle Management

Integrating business process management over the life of a program from design through after-sale services improves performance to plan.

SHARE PROGRAM INFORMATION IN REAL-TIME TO IMPROVE PERFORMANCE

The ability to track and share critical program information in real time, across the extended enterprise while protecting IP supports an increased role of global suppliers and improves a corporation’s performance to contract or performance to plan. Program managers can define and assign program deliverables with reliable and up-to-date information to all stakeholders at all times. Having the ability to define and validate product architecture earlier in the development process, before many product details are generated, promotes increased innovation while the change costs are low.

CONCLUSION

Confidently drive program efficiencies, scale capacity to meet growth and enhance your customers’ experience.

With Dassault Systèmes’ 3DEXPERIENCE Solutions real-time access to one source of the truth and a collaborative environment for all stakeholders is possible. Tailored for Aerospace and Defense, these solutions break down traditional barriers between teams, suppliers and customers for creating truly innovative products. Learn more about how to achieve the right balance for your programs: www.3ds.com/co-design-to-target