

A Modern Approach for Engineering and Construction

Primavera P6 Enterprise Project Portfolio Management
Cloud Service

Recent decades have brought dramatic changes in the engineering and construction industry. Buildings themselves are becoming modern and increasingly more complex, with sophisticated electrical and mechanical installations and structure systems—and they are not going to get any simpler. New technologies, methodologies, and requirements, such as Building Information Modeling (BIM), NEC3, and lean construction, are changing the way projects are built and the way stakeholders communicate with each other.

The very nature of the construction process involves collaboration and communication between diverse players, including owners, contractors, designers, engineers, and subcontractors. Yet rarely is this done efficiently.

At most firms, information is siloed in several databases—and even spreadsheets—throughout the organization. With different versions of the truth, decisions are made using inaccurate or out-of-date information. The lack of transparency impacts project scheduling, resource allocation, and productivity, ultimately costing all stakeholders time and money.

Because data is siloed in separate systems, any lessons learned on past projects don't get incorporated into reports or self-service portals where they are accessible to the project team. Without access to historical data, each new project starts from scratch. And project teams are challenged to find ways to avoid the mistakes made in the past.

The Move to Modernize

To be competitive in the future, engineering and construction companies need to transform the way they do business. By looking at best practices from other industries—and adopting what makes sense—you can implement integrated project portfolio management processes that ensure project delivery success.



Transform Project Delivery

Oracle's Primavera P6 Enterprise Project Portfolio Management (EPPM) Cloud Service is a complete, integrated project execution solution that provides the transparency and visibility critical for optimized project management, from contract to completion. Primavera is the recognized leader in project management software, with over 25 years of experience building solutions that help engineering and construction firms manage, control, and deliver projects on time and within budget.

In fact, Oracle has invested billions in engineering and strategic acquisitions for the most comprehensive portfolio of enterprise-grade cloud computing services. Primavera P6 EPPM Cloud Service helps you reimagine your business processes, making it possible for engineering and construction firms to:

- Achieve business process automation
- Gain complete visibility
- Discover new ways to collaborate
- Manage change
- Be ready for BIM
- Ramp up quickly

Achieve Business Process Automation

Firms can spend an enormous amount of unproductive time dealing with work inefficiencies at any point during the design and construction process. For example, when project teams are unable to access the latest drawings to complete their work. Or, when stakeholder feedback takes longer than expected. These breakdowns cause delays, impacting both schedules and budgets.

Primavera P6 EPPM Cloud Service provides an intelligent foundation for modern project management, helping firms streamline task coordination, improve decision-making, track project performance, and reduce the risk of cost and schedule overruns. The solution standardizes and automates business processes, incorporating construction and engineering best practices that rigorously enforce consistent, repeatable workflows—ensuring accountability for all project participants.

Modern, tightly integrated, multi-discipline work processes do more than just eliminate inefficiencies and poor communication—they enable firms to establish repeatable processes, improve project coordination, and avoid costly surprises. Further, by applying proven industry best practices, you can leverage historical data and lessons learned to transform your business and set your firm apart from the competition.

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Gain Complete Visibility

With the increasing complexity of construction projects, and the vast array of players involved, visibility into schedules, budgets, resources, and personnel is paramount.

Delays cost. But with modern project management, firms gain a real-time view of project performance throughout the entire project lifecycle. Instead of having information silos, project team members have one version of the truth, with access to all relevant information needed to do their jobs and keep projects moving forward.

With access to timely, accurate data, project teams make more informed decisions. Potential problems can be spotted early on and proactive measures taken to ensure that projects stay on schedule. Accountability at all levels of the organization improves.

Discover New Ways to Collaborate

Every construction project relies on input from a diverse network of players. When these players work across disparate systems, information is given to all collaborators as separate files or documents. From status updates to RFPs, collaboration becomes a process of scrounging for data.

Instead of limiting teamwork, modern project management with Primavera P6 EPPM Cloud Service unites project teams and stakeholders with easy-to-use tools for collaboration and feedback. With everyone using common tools to communicate, project collaboration is streamlined and enhanced.

Moreover, Primavera P6 EPPM Cloud Service integrates social networking capabilities into project management business processes. Social collaboration and task management are merged, enabling project teams to discuss their work or annotate documents in real-time through task-specific conversations. With embedded social functionality, firms can ensure secure, consistent collaboration and communication across project teams.

Integration with mobile devices keeps collaboration going—even when project teams are away from the office or job site. Decisions can be made on schedule, keeping delays to a minimum.

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Manage Change

While it's impossible to predict everything that might happen on any given project, modern project management tools enable you to look forward to upcoming projects, proactively plan for potential problems, and have scenarios in place that enable you to react to setbacks quickly.

With access to critical project information, you can make more informed decisions and respond in real-time to changing conditions. In a dynamic environment, managers can see where resources are being used across the organization and make adjustments when needed to keep schedules on track and maximize resource use.

Be Ready for BIM

Over the past few years, BIM has transformed the way that construction projects are built. BIM is an intelligent 3D model-based design process that enables project teams to explore a project before it is built. Throughout the world, governments are starting to mandate the use of BIM on public projects. It is expected that BIM will continue to play an even greater role in building construction in the future.

For many organizations, the road to BIM-readiness begins with a hard look at their IT systems. Unfortunately, yesterday's legacy computer systems simply weren't built to handle the computing power that 3D technology and BIM demand.

But your organization can get that computing power with Primavera P6 EPPM Cloud Service—quickly, and with low risk and cost. The solution delivers the extreme performance and scalability that can handle the data-heavy requirements of BIM—as a service. There's no hardware to buy or install.

The move to BIM doesn't have to be difficult or disruptive. By leveraging the power of the cloud, you can accelerate BIM adoption, with a scalable, flexible infrastructure, best-in-breed applications, and the latest software functionality. In addition, Primavera project management software in the cloud enables you to protect critical data and control access with access to market-leading security technology and best practices in its data centers.

Ramp Up Quickly

The Primavera cloud solution is designed for rapid deployment and minimal investment. You can get up and running quickly, with the capabilities you need now. Configure advanced functionality as needs grow and change.

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Oracle provides all the hardware and other infrastructure needed to start using the application right away. Oracle also performs the application and infrastructure upgrades so that you stay current with the latest versions of the software, with no additional upgrade costs.

Conclusion

Oracle recognizes that the forces reshaping the engineering and construction industry require technology that can meet these demands. Oracle is committed to supporting the industry with innovative solutions, such as Primavera P6 EPPM Cloud Service.

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