IBM

CATIA V5 KnowledgeWare Solutions

Reduce time to market, improve quality and spur innovation.

Highlights

- ■ *Organisations that lack an automated mechanism for capturing and re-using knowledge can't leverage it across the organisation and risk losing it as employees depart. Unable to innovate, companies recycle stagnant designs.*

- ■ *CATIA V5 KnowledgeWare Solutions turn implicit methods into explicit knowledge, allowing users to capture and re-use corporate know-how while stimulating innovation.*

- ■ *KnowledgeWare captures expertise and best practices, allows designers to explore more design alternatives, automates goal-driven design optimisation, ensures design consistency and quality, and facilitates brainstorming and innovation.*

Knowledge management – critical but complex

Efficiently and effectively sharing knowledge across an organisation is a vital but difficult goal to achieve, and the consequences of failure are costly to today's knowledge-driven organisations.

With no automated capability to store and disseminate corporate knowledge, organisations face a broad range of knowledge-based ills. For instance, when a particular skill or expertise is in short supply, knowledge bottlenecks restrict operations that compete for that expertise. Retaining corporate knowledge and lessons learned also is a challenge when employees leave the company and no record of their know-how remains.

But cultivating and retaining knowledge is just the beginning. An organisation's knowledge and corporate standards also must be applied correctly and catalogued so that they can be both retained and retrieved, or their value to the organisation is lost.

Embedded knowledge management: capitalising on corporate know-how

CATIA V5's KnowledgeWare Solutions provide the capability to embed corporate knowledge and standards directly into product designs, making them available throughout the organisation for all subsequent projects. In addition, the KnowledgeWare system acts as an apprentice and trainer, learning from an organisation's employees and automatically feeding that knowledge back to the rest of the workforce.

"KnowledgeWare is a diamond with many different facets," said Ed Ladzinski, IBM's Worldwide Analysis Domain Manager for CATIA V5. "After 30 years, an employee has learned a lot. You might lose all that knowledge when retirees leave unless you give them an apprentice. KnowledgeWare captures much of that critical knowledge and passes it on."

CATIA

To capitalise on corporate knowledge, organisations must be able to identify, model and explicitly represent knowledge; systematise knowledge capture by different user types; and share and re-use multi-disciplinary knowledge among differing applications and across the enterprise.

CATIA KnowledgeWare Solutions drive innovation and cultivate best practices

By automating knowledge collection, cataloguing and management, CATIA V5 KnowledgeWare allows engineers to focus on what they do best – creating innovative new products and refining time-tested designs. Confident that corporate knowledge and standards are embedded into the CATIA V5 KnowledgeWare system, designers are freed to use their ingenuity and creativity to invent and innovate.

New CATIA V5 KnowledgeWare solutions allow users to take their ability to leverage corporate knowledge to new levels. The BKT module allows the enterprise to capture not only product knowledge but the entire development process, letting organisations develop, store and re-use best practices. BK2 lets users create niche vertical applications, or workbenches, to address and automate specific design processes. And PEO (Product Engineering Optimiser 2) empowers users to interactively capture optimisational intent, allowing designers to incorporate engineering goals and criteria in product definitions. This permits optimal solutions to be achieved in designs with many variables and criteria.

Early adopters reducing cycle time and cost, increasing quality

Early adopters of CATIA V5 KnowledgeWare Solutions report significant reductions in development time with the ability to accelerate exploration of design alternatives; automate product design and process; speed access to information and knowledge; and maximise design re-use.

KnowledgeWare users also find product quality increases due to the ability to ensure compliance with corporate standards; preserve existing expertise; systematically capture and re-use knowledge; and develop and capture innovation. In addition, CATIA V5 delivers significant ROI through reduced costs achieved by enforcing standards and specifications and process constraints early in design; sharing multi-disciplinary know-how across the enterprise; and supporting decision-making with prior knowledge

"With CATIA V5, all the power of knowledge can be embedded directly into the design, stored in catalogues or leveraged through the use of templates and V5 process-based pseudo-applications," Ladzinski said. "Knowledge is an asset that can be exploited to gain a return."

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