SmarTeam – the next generation of collaborative Product Data Management
SmarTeam™ is a business collaboration solution that allows manufacturers to share and exchange product information throughout the enterprise and across the supply chain. A uniquely cost-effective and rapidly implemented Product Data Management (PDM) solution, SmarTeam also serves as the core of a Collaborative Product Commerce (CPC) enterprise system. Providing best-in-class solutions for manufacturers in the Automotive and Aerospace, Electronic and Electric (E & E), Discrete Manufacturing (F & A), Medical Equipment, Construction and Process industries, SmarTeam reduces costs, improves productivity, and cuts time to market.

Based 100 per cent on user-friendly, standard Microsoft® Windows® and Internet technologies, SmarTeam helps you to effortlessly turn product data overload, from design, manufacturing, and product maintenance, into an information asset that can be leveraged across the enterprise. SmarTeam is built for out-of-the-box simplicity, yet is totally customisable to easily accommodate your company’s particular preferences and requirements. With e-Supply Chain products, SmarTeam also becomes the centre of your Collaborative Product Commerce solution, driving the benefits of real-time product knowledge into work with customers and across your entire supply chain.

These are just some of the reasons why businesses are turning to SmarTeam to help them both manage and leverage their corporate product knowledge:

**Productivity**

SmarTeam improves design and manufacturing processes by capturing product knowledge at its source – within the CAD interface – and driving it across all core enterprise systems. By automating the flow of vital data and procedures, SmarTeam helps to institute corporate best practices, facilitating innovation and getting products to market faster.

**Return on investment**

SmarTeam’s powerful implementation tools and intuitive Win/Web interface get your corporate team up and running right away, allowing you to enjoy exceptionally rapid ROI.

**Time to market and volume**

SmarTeam helps the whole enterprise work together to speed your products to market and increase your production capabilities.

**Quality**

SmarTeam provides a complete document audit trail, vital for ISO and other industry standards, giving you immediate access to information in real time. By controlling all phases of the product life cycle and change control processes, scrap and re-work are virtually eliminated.
Competition breeds innovation. SmarTeam enhances it.
The SmarTeam product suite provides industry-leading collaborative product data management solutions that keep you competitive in today’s fast-paced marketplace, improving business processes and enabling product information collaboration across the extended enterprise to facilitate innovation, shorten time to market and reduce manufacturing costs.

A unique combination of robust product data management and mature collaborative technologies allows SmarTeam to provide the solutions currently sought by global manufacturers. Leveraging best-in-class multi-CAD integrations, SmarTeam drives product knowledge across multiple enterprise sites, suppliers and customers, enabling collaborative design, workflow & Bill of Materials management, as well as supply chain collaboration. By leveraging Web-based technologies with unique XML-based applications and infrastructure, SmarTeam enables manufacturers to achieve the economies and innovation required by current market forces. SmarTeam extends accuracy, security and productivity into procurement and manufacturing, enabling companies to deliver higher quality products to market at lower cost and in shorter time.

Beyond helping design engineers become more efficient through such tasks as managing revisions and tracking design data, SmarTeam gives companies a strategic advantage by making the latest technical data immediately available across all departments. Furthermore, companies that had never before considered collaborative PDM because of its cost and complexity are now able to utilise this technology to their strategic advantage.

Securing your corporate assets
Securing and controlling mission critical data is a key issue facing companies today. SmarTeam provides security and collaboration with the SmarTeam Hub Server, an enterprise server package that delivers complete organisational collaboration, including file vaulting, workflow and change management, remote access to the SmarTeam repository, and automatic information flow across all enterprise applications.
An integral component of the Hub Server is SmartVault™, which provides an extra layer of control for your organisation, ensuring that the integrity of your data is maintained throughout the product life cycle. Checking drawings in and out of the electronic vault is an easy operation that prevents accidental deletion and unauthorised modification. Your administrator can customise the central vault to control access permissions to all files in the SmarTeam database. Furthermore, SmartVault safeguards against more than one user modifying data at any one time, reducing the risk of errors. Life cycle management controls a document together with all its related components, such as assemblies, drawings, Title Blocks and Xrefs (CAD External References). Using SmarTeam to secure your data significantly improves time to market by reducing project delays due to lost, incorrect or incomplete information. You can be sure that only authorised personnel are looking at your designs.

**Powerful viewing capabilities – built in**

In today’s dynamic work environment, the desktop is a creative platform for a wide range of applications that need to be managed. SmarTeam includes a powerful leading-edge viewer that enables your entire enterprise team to view over 200 native 2D and 3D CAD, office and raster file formats. SmarTeam Viewer™ provides multiple user redlining options, in addition to enhanced printing and advanced manipulation tools, including sectioning, mass properties, measurements, bird’s eye and more. SmarTeam Viewer increases productivity because users can browse through a number of similar drawings in different formats to find a particular design. More importantly, you don’t need a copy of the application in order to view a drawing, which realises significant savings. This is particularly useful for people who need to review and redline designs and documents within a workflow process. Quick access to the drawings you need, when you need them means quicker time to market and volume!
From tailoring to full customisation – SmarTeam fits your needs

SmarTeam is designed with productivity in mind. SmarTeam takes advantage of the familiar Windows® and Web environments, resulting in a fast learning curve and ease of use. The intuitive user interface provides the flexibility to change the desktop according to the way you work, with the ability to tailor your work environment by setting screen preferences, in addition to defining and saving search queries.

The key to successfully implementing a collaborative PDM solution in your enterprise is the ability to rapidly adopt a data structure designed according to the way your organisation works. SmarTeam has ready-to-use templates, designed for different business sectors such as mechanical engineering, office automation, process organisations and others. Using the Form Designer and SmartWizard® utility, these templates can be used without any modification, or they can be augmented to fit to your specific business needs without programming.

In addition, using advanced industry standard programming tools, SmarTeam allows you to build customised collaborative PDM solutions for your business. The following customisation tools are available with SmarTeam: Application Programming Interface (API), an embedded VB-type scripting language known as BasicScript, powerful OLE (Object Linking and Embedding) automation functions, the Mask Designer utility and others. These tools enhance user and administrator functionality and help you integrate your solution with other applications, such as standard business productivity programs, ERP/MRP, CAD, or any other systems. Even if your business has not utilised the Windows platform in the past, SmarTeam provides powerful Import and Export utilities that plug into your legacy data so that you can leverage your long-term assets.
Rapid implementation for an attractive return on investment
What makes SmarTeam such an attractive solution is the speed and ease with which it can be implemented within the organisation. Whether adapting SmarTeam to existing processes or using SmarTeam best practices to implement change, the design and implementation of a data structure and collaborative environment typically takes days instead of months. Cost of ownership is further minimised through SmarTeam’s customisation tools, which allow you to further enhance the system to your evolving needs.

Furthermore, SmarTeam works in conjunction with all SMARTEAM Corporation products. For example, SmartBOM™ and mySmarTeam™ provide a collaborative environment for your entire supply chain, while SmartWeb™ gives your employees immediate participation in product related processes through any Web browser. Whether you need to manage your data at the workgroup or enterprise level, SmarTeam’s scalable architecture delivers an impressive return on investment.

SmarTeam – Rapid PDM
SmarTeam offers you a powerful, affordable and rapid solution for all your collaborative PDM needs. By delivering productivity throughout the enterprise, SmarTeam provides substantial returns in a scalable and secure environment. Our commitment to a Windows/Web-based, ready to use, yet totally customisable solution means that SmarTeam is ideal for mainstream businesses that want to reduce costs and speed time to market through better control of their technical data.

“With SmarTeam, the design and implementation of a business data structure and collaborative environment typically takes days instead of months.”
Usability through integration

SmarTeam Corporation is committed to providing user-friendly and rapidly implemented collaborative product data management and commerce solutions that work with the most popular CAD and office applications. Using robust COM/DCOM API technology, SmarTeam products are tightly integrated into Windows, CAD, and office software. This tight level of integration has opened a new way for SmarTeam to being used for PDM, called “in process”. Using the “in process” methodology, you no longer have to leave your regular design environment to manage your data – the management simply becomes part of the normal design process. Because all of the key features such as search, locate and life cycle/revision control operations have been intuitively designed and are located inside the design application you don’t have to spend extra time re-keying your data.

One of the key products of SmarTeam Solutions is TeamPDM which provides integration to CATIA V5. TeamPDM allows CATIA V5 organisations to manage and streamline all product related information throughout the product lifecycle. Within the familiar CATIA working environment, users have access to all product data and related information. Data integrity and security are maintained, and rework is avoided. TeamPDM’s friendliness, intuitiveness and usability make it possible for inexperienced users to adapt to the system with minimal effort.

Concurrent engineering is supported by a ‘Who is using’ function which allows a user to know the other users who might be impacted by a modification made to a product. Product structure is automatically updated in the database. Information integrity is maintained by automatically tracking revisions throughout the product lifecycle, maintaining a product history journal, and managing all major and minor revisions. Links between drawings and data are automatically detected and fully maintained. TeamPDM manages information contained in the drawing block. Data can be shared among users, facilitating team projects while maintaining information integrity.

“SmarTeam extends accuracy, security and productivity into procurement, manufacturing and the supply chain.”
BOMs are generated with a single click of the mouse. The assembly structure is always kept up to date, allowing for accurate, rapid BOM creation.

Database customisation for TeamPDM can be done by using wizards, form designers, basic scripts or triggers. A wizard can guide the new user through a database customisation. Forms are easily created and altered using a form designer.

SmarTeam, includes many CAD and office integrations. In addition, SmarTeam offers lower-priced workgroup level products that integrate to a single CAD application. As your data management needs grow beyond the single CAD environment, or beyond the workgroup, there is a smooth transition to the full SmarTeam product.

In addition to TeamPDM – PDM for the users of CATIA V5, the following ‘plug in’ PDM productivity tools are currently available in SmartTeam portfolio:

- **SmartExpress**™ – PDM for users of SolidWorks
- **SmartDesk**™ – PDM for users of AutoCAD and Mechanical Desktop
- **SmartEdge**™ – PDM for users of Solid Edge.

SmarTeam also integrates with Microsoft® Excel, Microsoft Word and other Microsoft Office® products. Additional integrations are being added regularly, and others are available through third party vendors.

**A universe of e-business collaboration**
SmarTeam is complemented by an entire application suite that empowers product teams to collaborate on product information across an enterprise and with customers and suppliers. SmarTeam extends accuracy, security and productivity into procurement, manufacturing and the supply chain, enabling companies to deliver higher quality products to market more quickly and cost-efficiently.

**SmarTeam Enterprise Solutions**

- **SmarTeam Hub Server** is an enterprise server package empowering complete organisational collaboration, including file vaulting, workflow and change management, remote access to the SmarTeam repository, and automatic information flow across all enterprise applications
- **SmartWeb** enables secure product lifecycle collaboration through the SmarTeam product database from standard Internet browsers
• SmartFlow™ expedites the engineering change process by managing project workflow, tracking project status and automatically routing work from one stage to the next
• SmartGateway™ is an Enterprise Application Integration (EAI) server, which reduces the manufacturing cycle by connecting the company’s design data to its various enterprise applications
• Smart Multi-site™ enables product development teams to collaborate efficiently across distributed organisations, maintaining data integrity and high performance at all sites.

SmarTeam Collaborative Product Commerce Solutions
• SmartBOM accurately tracks part configurations with capabilities for creating, editing, viewing and comparing BOM data for improved collaboration among manufacturers and suppliers
• mySmarTeam is a collaborative engineering portal enabling effective communication throughout the supply chain and extended enterprise, available as a customisable enterprise solution or as a SmarTeam-hosted application service.

SmarTeam security
• SmartVault is a Windows server solution that maintains security and control over all documents and drawings managed in SmarTeam.

Innovation through technology
SmarTeam products are fully object-oriented and are designed and built to take advantage of the latest Windows and Web environments. SmarTeam’s philosophy is to achieve unparalleled performance and scalability using state of the art technologies. These include support for COM+, DCOM, SOAP, OLE and ActiveX, which facilitate easy integration with other OLE and Windows compatible applications and solutions, as well as JavaBeans, XML, HTML and HTTP which facilitate building collaborative distributed environments. The client/server architecture supports most popular relational databases, including Oracle, Microsoft SQL server and Inprise’s InterBase. DB2 support will be available shortly.

The shift to Collaborative Product Commerce (CPC)
Competitive factors and trends toward globalisation have made supply chain collaboration a market necessity. Employing new Web technologies, including portals and XML-based data exchange tools, to facilitate
enterprise-wide and supply chain collaboration, SmarTeam provides full-featured, yet affordable, easy-to-install and easy-to-use solutions.

SmarTeam’s Web-based solutions allow companies to conveniently and economically take full advantage of the CPC e-business movement through a rapidly implemented, collaborative PDM system.

**SmartTeam’s mission**
To provide rapidly implemented, scalable, customisable and affordable Windows and Web centric information collaboration solutions for the extended enterprise and supply chain.

**IBM and its worldwide Business Partner network**
IBM Corporation and its extended Business Partner network form a qualified and dedicated team providing customers with the world’s most complete e-business solutions and methodologies. IBM Corporation provides added value to your company through first rate training, consulting, implementation and support services.

IBM and its Business Partners can help you address your specific business needs and objectives. Whether it be for a small, quick-start implementation or in long, large-scale projects, IBM and its Business Partners provide you with a combination of services, process expertise and proven consulting experience to enhance the SmarTeam software offer.

IBM’s consulting teams understand your industry and can help drive improved efficiency, speed and innovation into your business. With Business Partners in more than 40 countries worldwide, IBM’s customers enjoy the benefit of working with a local partner with industry-specific expertise. IBM’s Business Partners undergo extensive training and formal accreditation before being allowed to represent IBM, thus insuring the consistent quality and service around the globe.

"The power of SmartTeam applications supported by IBM’s global network of e-business experts – uniting forces to dramatically enhance e-collaboration within your enterprise.”
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