

# Complying with Europe's S2000M: A&D Provisioning and Materiel Management

## Why a 'single-system/single-vendor' provisioning approach is far more effective than a 'point solution' method

It's a simple fact of life in Aerospace & Defense: Even with the best design and with flawless manufacturing, A&D equipment will eventually fail and malfunction.

To keep equipment up and running as efficiently as possible for the entire life of a product or program, the Provisioning and Materiel Management process for A&D was established. This process enables companies to easily identify the correct spare parts, and to quickly repair equipment to the desired performance level.

Military and Commercial Aerospace & Defense organizations must stay focused on accurately defining the necessary spare parts, while reducing the logistical footprint and cost. In addition, A&D companies must comply with global regulations, that is, if they want to secure the best projects.

In Europe, A&D companies today must comply with S2000M—now the mandated standard for spare parts and provisioning. S2000M is important because it not only defines the process, but also provides the mechanism for communicating and exchanging provisioning data between contractors, partners and government agencies.

In this topic sheet you'll learn more about S2000M solutions, so you can make intelligent decisions going forward with your Provisioning and Materiel Management strategy.

## What is S2000M?

By definition, S2000M is a standard that defines the requirements for exchanging information within most materiel management functions typically performed in supporting procurement of an A&D system or subsystem. S2000M is based on a business model that has been agreed to, and established by, European military customers and industry suppliers.

S2000M defines not only the business rules that must be followed at various stages of the materiel management process, but also a common data set to be shared by all parties. S2000M also provides various standard message formats, ensuring that information is exchanged in an unambiguous way.

S2000M was initially developed more than 20 years ago by the Association Européenne des Constructeurs de Matériels Aéronautiques—or AECMA—which is now the AeroSpace and Defence Association of Europe (ASD) for the support of multinational military aircraft and aerospace projects. Since first being established, S2000M has evolved to become the standard for Provisioning in the European A&D market.

## Challenges in Implementing Provisioning Processes and S2000M

With compliance to S2000M now mandated in Europe, A&D suppliers are now searching for a Provisioning and Materiel Management solution that meets these strict regulations. When selecting an effective and compliant S2000M solution, A&D companies can avoid common pitfalls and unexpected costs by selecting a 'single-system' solution provided by a single vendor instead of using a 'point' solution.

### Single System vs. Point Solution

To meet A&D industry provisioning requirements of S2000M, companies often adopt a 'point' solution approach. With this approach, companies will select multiple, disparate solutions from a variety of vendors to meet their own requirements and the multiple parameters mandated by S2000M. Accordingly, companies choose to assume the burden of integrating and maintaining the point solutions over time.

These companies quickly realize that this point approach is fraught with risk, and increases total cost of ownership, because each time a version of the point solution software changes, the overall solution's integration 'breaks'. Further, training costs are higher with a point solution approach because software applications have different interfaces that aren't designed to work together, so users must be trained on a variety of interfaces.

Moreover, even when an S2000M point solution is finally architected and deployed, it is often incomplete because it lacks essential automation. Consequently, organizations still face a great deal of work in building an automated process for accessing and reusing provisioning information in technical publications, and in creating supporting graphics and illustrations specific to product configurations.

## Best-Practice Method: Single-System/Single-Vendor Approach

With 20 years of experience serving the world's top A&D companies, PTC understands the challenges of selecting and deploying a provisioning solution, particularly one that fully complies with S2000M. Rather than forcing customers to wrestle with a point solution approach, PTC recommends a single-system/single-vendor approach to Provisioning and Materiel Management, which delivers greater value while significantly reducing total cost of ownership and risk.

The PTC solution for Provisioning will: ensure compliance with S2000M; automate the process of reusing the provisioning data and generating S1000D data modules; and lower your system implementation and maintenance costs.

The PTC Solution for S2000M delivers all the necessary capabilities to achieve an optimized and compliant materiel management process, including the ability to create, collaborate, control, configure and communicate vital provisioning information.

PTC adds unique value for A&D organizations by delivering these core provisioning capabilities (described in greater detail below):

- Create content
- Collaborate in the development of content
- Control processes surrounding content and configurations
- Communicate content across the value chain

## PTC Solution for Provisioning and S2000M Materiel Management:

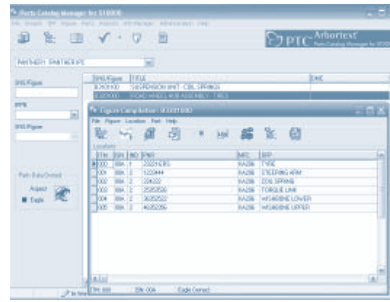
### 'Create' Capabilities:

- Author illustrations and graphics by leveraging rich CAD data and embedding it in documents
- Create illustrations and graphics in S1000D-compliant formats (CGM and other types)
- Leverage provisioning data to produce the S1000D Illustrated Parts data modules from the provisioning data

### 'Collaborate, Control, and Configure' Capabilities:

- Establish projects either for a complete weapon system, or for a single piece of equipment
- Create projects that contain data organized either in chapters, or by system and subsystem
- Manage all facets of the Initial Provisioning process with ease
- Create and maintain/manage data against multiple projects
- Securely control data, so that only authorized users gain visibility to relevant projects, and only via access control rules

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The PTC Solution for S2000M provides a link to the Arbortext CSDB for S1000D and its Standard Numbering System, so you can create Data Module Codes when creating Catalogue Sequence Figure numbers.

The PTC provisioning solution is fully integrated with PTC's Arbortext® suite of dynamic content management products, offering these benefits:

- Get easy access to existing LSAR data via LSAR-driven compilation
- Link the compilation of Initial Provisioning Data to the Standard Numbering System (SNS)
- Get direct access to Customer Price Lists and Parts Data when handling orders

### 'Communicate' Capabilities:

- Easily generate S2000M Electronic Data Interchange Messages
- Support the Materiel Management requirements defined within S2000M for Procurement Planning, Order Administration, and Invoicing.
- Provide additional authors and users with interactive viewing of embedded technical illustrations

## Summary

Today, compliance with S2000M is a requirement in A&D industries delivering to European agencies. As a result, multinational companies need provisioning capabilities that include compliance with S2000M.

PTC provides a materiel management provisioning solution that is fully compliant with S2000M. The PTC Solution for S2000M is based on an architecture designed to support the end-to-end provisioning logistics process. Through this single-system/single-vendor approach, PTC offers full compliance with a lower total cost of ownership.

With over 20 years experience in A&D—serving the top programs and the most demanding organizations—PTC is well positioned to help A&D organizations overcome the typical hurdles experienced in implementing global provisioning processes. The result: PTC can help you realize maximum value from your provisioning process initiative.

Note: Forward looking information subject to change without notice

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