

Success Story

PDM, Prolog and ReproMAX Streamline Project Documentation

Owner: Texas Instruments

General Contractor: Austin Commercial

Reprographer: ReproMAX

Project Management Software: Prolog

Document Management Software: Project Document Manager (PDM)



Austin Commercial is building a state-of-the-art chip plant for Texas Instruments (TI). The building will sit on 92 acres and will employ about 1,000 people when completed. The 1.1 million-square-foot facility will include 220,000 square feet of clean room space.

With Austin Commercial's standard of meeting or exceeding the needs of their clients, they were searching for a solution to better manage project documents. Project documents needed to be quickly indexed and entered into their Prolog® construction project management system so that Austin could create bid packages and distribute documents to meet the owner's (TI) request, and to also provide TI with a complete document archive at the end of their project.

The solution Austin Commercial chose was PDM with ReproMAX® services. When asked why they selected PDM and ReproMAX, Fred Cardenas, PM Systems and Technical Support at Austin Commercial said, "The decision helped Austin Commercial reduce reproduction costs and put less pressure on data entry. We could continue to use Prolog as our standard project management interface, and add a simple-to-use integration to get the document management functionality we needed."



At the onset of the project, Austin had to index thousands of sheets into Prolog, estimating that it would take a minimum of four days. With the ReproMAX indexing service and PDM indexing tools, it was done in a matter of hours. When the documents were re-released a few days later, they would have spent another four days entering the new data without ReproMAX and PDM.

Austin Commercial realized the benefit of using the technology of PDM and the services of ReproMAX to provide a huge time and cost savings to someone using Prolog.

Integrated Solution Features

- Quick Indexing of Drawings
- Easy Viewing of Drawings from Prolog
- Easy Viewing of Bid Package Contents
- Automated Notification System
- Online Viewing and Ordering
- Full Version Control
- Long Term Archiving
- ReproMAX Scanning, Indexing, and Printing Services

Three components made this solution work. Prolog enables its users to effectively manage construction projects. PDM is the leading technology for storing, managing, and distributing project documents. And ReproMAX, the largest network of independent reprographers, is the expert at scanning, indexing, and printing documents. By integrating these three components, Prolog, PDM, and ReproMAX, project-based organizations can have a powerful, cradle-to-grave project and document management system.

The PDM solution helped Austin to facilitate quick indexing and provided a place to scan and order prints through ReproMAX while providing a project archive and the integration between PDM and Prolog to maximize efficiency.

Customer Profile

Name: Austin Commercial
 Location: Dallas, TX
 Phone: 214-443-5700

Project Profile

Owner: Texas Instruments
 Project Size: 1.1 million sq ft
 Location: Dallas, TX

Solution Highlights

- PDM
- ReproMAX
- Prolog software

Problem	Solution	Results
<ul style="list-style-type: none"> • Difficulty managing project documents • Time lost due to cumbersome indexing • Need to archive all documentation 	<ul style="list-style-type: none"> • PDM document management solution • ReproMAX scanning, indexing, print service • Seamless integration with Prolog software 	<ul style="list-style-type: none"> • Reduced reproduction costs • Time saved by streamlining indexing • Simple integration and archiving capabilities

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Success Story

PDM, Prolog and ReproMAX Streamline Project RFI Documentation

General Contractor: Skanska

Reprographer: ReproMAX

Project Management Software: Prolog

Document Management Software: Project Document Manager Professional (PDM)



Skanska USA Building Inc. is a leading international and local provider of construction, preconstruction consulting, general contracting and design build services to a broad range of US industries including life sciences, health care, education, high tech, aviation, transportation, sports and entertainment. The company is headquartered in Parsippany New Jersey and has approximately 3700 employees. The company reported sales in 2005 of about \$30 billion.

With Skanska's abiding commitment to client satisfaction, they were searching for a solution to better manage their project and RFI documents resulting in the more accurate, efficient and up-to-date process. Skanska wanted a solution that provided flexibility, standardization and an ability to integrate with their existing Prolog® construction project management system. Moreover, Skanska wanted a partner that understood their problems and was willing to grow with them.

The solution Skanska chose was Project Document Manager Professional (PDM - formerly known as DFS Contractor) with ReproMAX® services. When asked the reasons why they selected PDM and ReproMAX, Amy Glowczynski, Regional Manager for Systems and Controls at Skanska USA Building said, "We didn't want a predefined system, we wanted to work with someone who understood our needs and was willing to work with us in the future to provide the solution we needed." The commitment to meeting customers' requirements, the geographic reach of ReproMAX and the integration with Meridian Prolog made the PDM / ReproMAX solution an optimal fit for Skanska's requirements.

Prior to the implementation of PDM, Skanska used a hardcopy centric workflow to implement their RFI process. They would literally scotch tape sketches, RFI, ASI and other project related documents directly to the original drawing. The result was superintendents rarely had the latest documents, and the problem was even worse for subcontractors.

Integrated Solution Features

- Quick Indexing of Drawings
- Easy Viewing of Drawings from Prolog
- Easy Viewing of Bid Package Contents
- Easy Managing of RFIs
- Automated Notification System
- Online Viewing and Ordering
- Full Version Control
- Long Term Archiving
- ReproMAX Scanning, Indexing, and Printing Services

The PDM solution helped Skanska to facilitate the transition from a manually intensive, slow and error prone RFI process to a highly automated, efficient, electronic process.

In 2006, the Skanska Raleigh-Durham North Carolina facility implemented the PDM application implementing the following workflow:

- Using tablet PC technology, superintendents respond to sub-contractor questions by immediately looking up relevant drawings and specifications on their tablet.
- If they are unable to answer the question, they create an RFI and electronically attach any relevant documentation like pictures or sketches.
- Once on-line, the RFIs are linked to the appropriate drawings / specification and synced back to the Prolog system and using standard Prolog functionality assigned to an architect / project manager for review.
- After the architect and the project manager resolve the problem, all relevant information is assembled into an updated revision and posted back to the Document Manager Professional application.
- Sub-contractors are notified of updates and can electronically search for the latest versions of their project documents.

With the implementation of PDM, dramatic increases in efficiency and reliability have occurred in the RFI process. Amy Glowczynski said, "Our superintendents save 2-3 hours a day using this solution." No longer does information have to be "taped" together. All documents are automatically appended to the drawing assuring a single information source.

Three components made this solution work. Prolog enables its users to very effectively manage construction projects. PDM is the leading technology for storing, managing, and distributing project documents. And ReproMAX, the largest network of independent reprographers, is the expert at scanning, indexing, and printing documents. Integrating these three components, Prolog, PDM, and ReproMAX, Skanska gained the powerful, cradle-to-grave project and document management system they were looking for.

Problem	Solution	Results
<ul style="list-style-type: none"> • Difficulty managing project documents • Out-of-date documents • Slow response to RFIs • Taped on attachments 	<ul style="list-style-type: none"> • Project Document Manager Professional solution • ReproMAX scanning, indexing, print service • Seamless integration with Prolog software 	<ul style="list-style-type: none"> • Increased time saving • Provided up-to-date project documents • Eliminated misplaced documents

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