In order to meet the needs of the market, shorten product development periods, improve quality and productivity, and reduce costs in the midst of the dramatic changes that are taking place in the world today, it is important to maximize the use of information technology (IT) and to reform the business process through information sharing and business computerization. For the purposes of (1) implementing concurrent (parallel) product development and cooperative design through sharing of technical information, (2) improving intellectual productivity through "knowledge management," and (3) providing company-wide management support that integrates QCD, our company has begun internal development of a Product Data Management (PDM) System for total control of product-related information. This report introduces examples of key points in system structuring, major functions, and system development / configuration, centered on the development of a technical information sharing function which is the root of the Advanced Product Data Management System (APROS) of our company’s PDM system.
Development of APROS Product Data Management (PDM) System

Forward

Goals in the Development of APROS

FUJITSU TEN TECH. F. NO.18(2002)
Main Functions of APROS
Noteworthy points in the structuring of the technical information sharing system

Information sharing function


## Drawing issuance function

In the past, drawings were printed from the main drawing file and distributed by the drawing registration section. However, in recent years, thanks to the 3D modeling function, design changes have been made directly in the drawings, and the issue of drawing registration has been largely simplified. This section describes the drawing issuance function used in this system.

### Design change function

The design change function is a function that manages the drawing changes that occurred during the design process and links them to the design history information. This function is used to manage the design changes that occur during the design process, and when a drawing change is made, the history of the change is managed, and the information is linked to the drawing registration section.

The system supports the management of design changes, and the history of changes is managed, and the information is linked to the drawing registration section. When a drawing change is made, the history of the change is managed, and the information is linked to the drawing registration section. This function is used to manage the design changes that occur during the design process, and when a drawing change is made, the history of the change is managed, and the information is linked to the drawing registration section.


## Drawing issue scheduling function

The drawing issue scheduling function is an essential feature in the development of the APROS Product Data Management (PDM) System. This function allows for the efficient management and scheduling of drawings for production and engineering purposes. It is designed to streamline the process of issuing drawings to different departments and teams, ensuring that all relevant stakeholders are informed and up-to-date.

### System configuration

The system configuration is a critical aspect of the APROS PDM System. It involves setting up the necessary infrastructure and protocols to support the drawing issue scheduling function. This includes the integration of hardware and software components, as well as the establishment of communication channels and data exchange mechanisms.

### System development technique

The system development technique is another crucial component of the APROS PDM System. It involves the application of advanced software development methodologies and practices to ensure that the system is developed efficiently and meets the specified requirements. This includes the use of agile development practices, continuous integration, and other best practices to enhance the overall quality of the system.
Profiles of Writers

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Joined the company in 1982. Involved in the design of audio products, and the development of technological information systems for design support. Currently in the Product Data Management Section of the Technical System Engineering Department at the Research & Development Division.

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Future Issues

Effect of technical information sharing system

Profiles of Writers