FactoryLink Traceability
Tracking and tracing key production events in automated environments

fact sheet

▶ **Summary**

FactoryLink Traceability tracks and traces key production events on serialized products and provides full bi-directional genealogy and analysis functions. Designed for automated environments, FactoryLink Traceability can be easily added to existing FactoryLink applications or used to easily build a new class of applications. Based on the Xfactory data model, FactoryLink traceability can be seamlessly expanded, if required, to the full-featured Xfactory MES.

Features

Full bi-directional genealogy for a complete product history, including related process variables

Automatically tracks labor, inventory changes, equipment usage, production and work cell statistics

Dynamic and rich web-based reporting, when used in conjunction with the Tecnomatix Manufacturing Portal

Easy to configure and model your unique production environment with included application objects and template spreadsheets

Based on the Xfactory dynamic data model to permit easy expansion into a full-fledged MES solution

Benefits

Understand the exact status of a production order in real time

Track key production metrics and KPIs to improve utilization and effiency

Reduce warranty costs and liabilities by precisely identifying affected components or products

Ensure compliance with regulatory requirements requiring full lifecycle genealogy and traceability

Manufacturers continue to face increasing pressure to reduce costs, improve customer satisfaction and improve efficiency. In addition, customers and regulatory agencies are requiring them to provide more detail about how specific products were manufactured.

The Tecnomatix FactoryLink Traceability Module is totally dedicated to the traceability needs that many manufacturers face and provides everything needed for an "out-of-the-box" traceability system. Traceability is fast and easy to install, configure, and use, so manufacturers start realizing immediate results, especially when compared to the more complicated and time-consuming implementations associated with MES systems. And unlike custom, in-house solutions, FactoryLink Traceability is scaleable so it is easy to scale up to a full MES system as needs expand because it is fully compatible with the Tecnomatix Xfactory MES prodcut.

Traceability Applications

Quality and safety concerns are at the forefront in many industries including food and beverage, aerospace and defense, automotive and consumer goods. In response to these concerns, European and U.S. regulators have enacted various laws that require significant action by industry. These regulations require process and product information to be synchronized and stored for future retrieval in the event of a quality or safety issue. FactoryLink Traceability can be utilized to meet these types of industry specific regulatory requirements.

Traceability is also a critical element for manufacturers who may recall products periodically for field repairs. As an example, automotive OEMs and suppliers require the ability to tightly limit a recall window to only those units that are actually defective -- otherwise millions of dollars are wasted. Detailed traceability information is required to accurately determine the exact serial numbers of products requiring recall. This crucial information can be easily ascertained using FactoryLink Traceability.

TECNOMATIX

Included Reports

Equipment Availability
Equipment Usage
Forward Genealogy
Inventory Search
Order Search
Backwards Genealogy
Inventory Detail
Production Detail
Production Overview
Production WIPs
Production Yield
Transfer History

Rendering Options

HTML
PDF
Excel
Comma Delimited
TIFF
XML

SCADA-Based Traceability

Extending the field-proven FactoryLink SCADA system to collect and log the data required for traceability functions is a logical choice, particularly in automated environments. The FactoryLink system typically gathers most of the relevant information and, in automated environments, traditional execution functionality such as route enforcement or operator work instructions are less important.

The users of a SCADA driven traceability system are not typically the operators on the shop floor. Rather, the information is better suited to the needs of production managers, quality assurance personnel and plant managers who are responsible for key performance indicators (KPIs), warranty management, regulatory compliance and quality issues. FactoryLink Traceability, when coupled with the Tecnomatix Manufacturing Portal, allows these non-traditional SCADA users to easily access and analyze relevant data.

Easy to Use

FactoryLink Traceability completely leverages the Tecnomatix Manufacturing Portal and provides a rich set of web-based reports. The reports are parameter-driven, allowing the content to be easily customized by end-users. Additionally, users can easily personalize the generation, delivery and notification of reports. The reports are delivered via a secure, role-based framework that permits additional reports to be added into the system or deleted based on any unique requirements.

Easy to Configure

FactoryLink Traceability is very easy to configure and use especially by users familiar with SCADA systems. All of the configuration information is stored in standard FactoryLink configuration tables and all of the run-time information is contained in standard tags, making the information equally accessible via the graphical screens or by any FactoryLink task. Included with the module is an Excel configurator spreadsheet leveraging FactoryLink s powerful application object technology to make modeling of unique production environments intuitive and fast. Also included is a complete traceability demo application showing its use in various production environments.

UGS Production Management

UGS is a leading global provider of product lifecycle management (PLM) software and services with nearly 4 million licensed seats and 46,000 customers worldwide. UGS products span all areas of the the product lifecycle including requirements, design, manufacturing planning, shop floor production management and post-sales support. With over 5,000 customers and over 80,000 installations, UGS Tecnomatix production management solutions are field-proven. Headquartered in Plano, Texas, UGS has nearly 7,000 employees around the globe. For more information on UGS Tecnomatix production management products and services, please visit http://www.ugs.com/go/production.

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