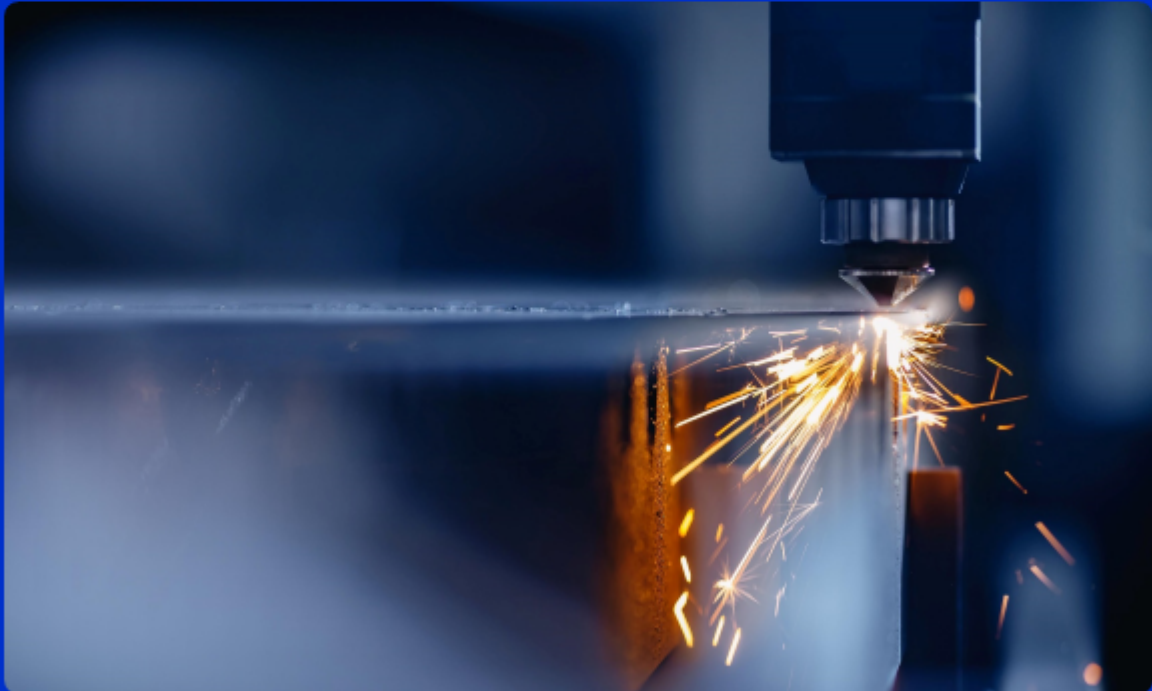


UPT - Unified Product Traceability

Syspro 8

Reference Guide

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syspro

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Topic: Unified Product Traceability

Exploring

Where it fits in?

The **Unified Product Traceability** (UPT) project introduces a scalable and extensible traceability framework within Syspro. Rather than building separate, hard-coded solutions for each regulation, UPT provides a single configurable model that can support a variety of legislative and industry traceability mandates, such as:

- The Food Safety Modernization Act (FSMA) Section 204 (USA)
- The European Union Digital Product Passport (EU-DPP)

By embedding a unified product traceability capability into Syspro, manufacturers and distributors can ensure ongoing compliance with emerging global traceability mandates. This not only reduces compliance risk and manual effort but also enhances product visibility, supports faster recalls, and builds trust with consumers and regulators. The solution delivers future-proof value by providing a scalable traceability framework adaptable to evolving standards.

Benefits

- Compliance with global product traceability requirements
- Capture, manage and report key data elements (KDEs) linked to critical tracking events (CTEs) across your supply chain
- Faster and more accurate traceability reporting
- Reduced manual compliance work and audit preparation
- Proactive readiness for upcoming regulations
- Greater supply chain transparency and product lifecycle insight
- A future-ready traceability architecture designed to scale across markets and mandates

Functionality

Unified Product Traceability will ensure that you can:

- Record the required data for the tracking critical tracking events (CTEs)
 - Record with a new program called Unified Product Traceability Tracking
- Report all required information in a “Electronic Sortable Spreadsheet”
- Report all data via an “API” or Business Object
- Maintain records of all required information for the specified 2 years or more

Functionality will also be delivered to ensure you can manage future expansion. Functionality will be delivered to support:

- Import functionality to import the initial dataset as required by either FSMA or DPP
- Configuration to establish the required KDEs by CTE by provided scenarios
- Maintain “Critical Tracking Events” to add to these if certain rules are revised
- Maintain “key data elements” per “CTEs” and scenarios to add to these if rules are revised
- Query and Maintain CTEs and its associated KDEs in case any adjustments are needed from the initial capture and to allow for manual capture of KDEs

Navigation

The programs related to this feature are accessed from the [Program List](#) of the Syspro menu:

- *Program List > Quality Management*

Terminology

Product and Data Regulations

The following regulations require capturing and disclosing product data across your supply chain, involving food safety and sustainability.

Food Safety Modernization

The Food Safety Modernization Act (FSMA) Section 204 is a regulation issued by the U.S. Food and Drug Administration (FDA) to improve food traceability and strengthen response to foodborne illness outbreaks.

EU Digital Product Passport

The EU-DPP forms part of the European Green Deal and Circular Economy Action Plan. It requires manufacturers to disclose detailed product-level data including material composition, sustainability, and recycling instructions in a digital passport format. This data is used to support sustainability goals and enable downstream users to make informed decisions about reuse, repair, and recycling.

Critical Tracking Event (CTE)

A list of events for which data must be recorded. A CTE is a point in the supply chain where product data must be recorded to meet a traceability regulation. In UPT, each CTE can be linked to the required point of the manufacturing or distribution process.



CTE stands for critical tracking event, also referred to as a critical traceability element. The terms have the same meaning and are used interchangeably.

Key Data Elements (KDE)

A list of data elements which must be recorded and linked to an associated CTE. A KDE is the specific piece of data captured for a CTE. Each CTE has its own set of KDEs, which you can adapt as requirements change.

Starting

Prerequisites

Setup Options

To use this feature, the following setup option(s) must be enabled/defined:

Quality Management Configuration

Setup Options > Configuration > Manufacturing > Quality Management

- Unified product traceability

Quality Management History

Setup Options > History > Manufacturing > Quality Management

- Unified product traceability entries

Electronic Signatures

To use this feature, the following eSignatures must be defined accordingly in the [Electronic Signature Configuration Setup](#) program (as this allows for the various functions in the related programs):

- UPT Critical Traceability Element added e.net
- UPT Critical Traceability Element changed e.net
- UPT Critical Traceability Element deleted e.net
- UPT Key Data Element added e.net
- UPT Key Data Element changed e.net
- UPT Key Data Element deleted e.net
- UPT Critical Traceability Location added e.net
- UPT Critical Traceability Location deleted e.net
- UPT Configure Critical Traceability Element e.net
- UPT Data added e.net
- UPT Data changed e.net
- UPT Purge e.net
- UPT Archive e.net
- UPT Critical Traceability Element added
- UPT Critical Traceability Element changed

- UPT Critical Traceability Element deleted
- UPT Key Data Element added
- UPT Key Data Element changed
- UPT Key Data Element deleted
- UPT Critical Traceability Location added
- UPT Critical Traceability Location deleted
- UPT Configure Critical Traceability Element
- UPT Data added
- UPT Data changed
- UPT Purge
- UPT Archive

Licensing

To use this feature, the following module(s) must be installed according to the terms of your software license agreement:

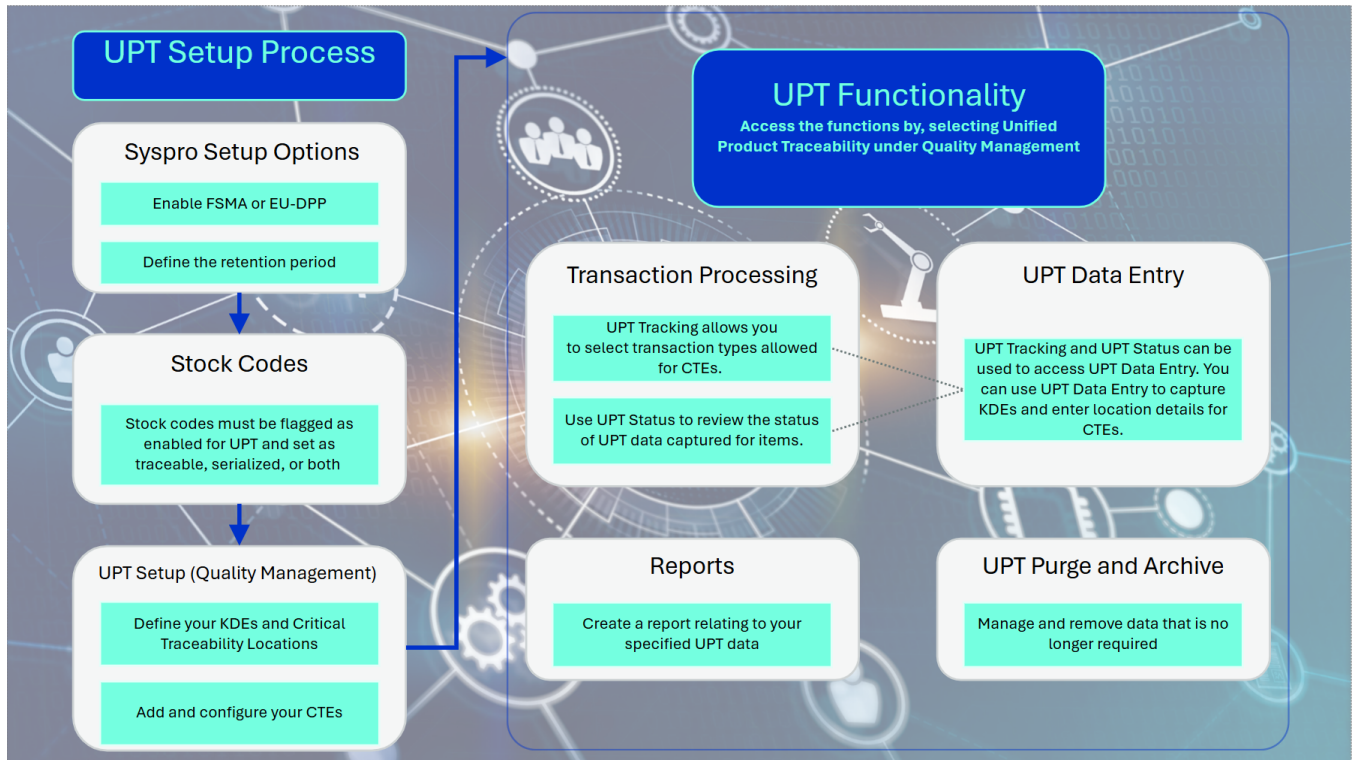
- Quality Management

Security

You can secure this feature by implementing a range of controls against the affected programs. Although not all these controls are applicable to each feature, they include the following:

- You restrict operator access to *activities* within a program using the **Operator Maintenance** program.
- You can restrict operator access to the *fields* within a program (configured using the **Operator Maintenance** program).
- You can restrict operator access to *functions* within a program using passwords (configured using the **Password Definition** program). When defined, the password must be entered before you can access the function.
- You can restrict access to the eSignature *transactions* within a program at operator, group, role or company level (configured using the **Electronic Signature Configuration Setup** program). Electronic Signatures provide security access, transaction logging and event triggering that gives you greater control over your system changes.
- You can restrict operator access to *programs* by assigning them to groups and applying access control against the group (configured using the **Operator Groups** program).
- You can restrict operator access to *programs* by assigning them to roles and applying access control against the role (configured using the **Role Management** program).

Using Process



UPT Setup Process flow

- In **Setup Options**¹ define the following:
 - Unified product traceability as **FSMA** or **ED-DPP** (*Setup Options > Configuration > Manufacturing > Quality Management*)
 - Unified product traceability entries as the length of your retention period (*Setup Options > History > Manufacturing > Quality Management*)
- Enable the following fields within the **Stock Code Maintenance** program:
 - UPT required** checkbox.

 Ensure the stock codes are traceable and/or serialized
- Use the following programs to define and configure the required critical traceability elements and key data elements:

¹Program: IMPCFG

- Use the **Key Data Element¹** program to define your intended KDEs.
- Use the **Critical Traceability Element²** program to add your required CTEs.
- Use the **Critical Traceability Locations³** program to add your intended CTE locations of the defined CTEs and KDEs.
- Use the **Configure Critical Traceability Element⁴** to configure your CTEs by linking them to the selected KDEs and critical traceability locations.

UPT Functionality

1. Transaction processing:

- You can use the **Unified Product Traceability Status⁵** program to review the status of the captured UPT data.
- Use the **Unified Product Traceability Tracking⁶** program to select transactions for the relevant transaction types allowed for CTEs.
 - The **Unified Product Traceability Data Entry⁷** program can be accessed from both the **Unified Product Traceability Status⁸** and **Unified Product Traceability Tracking⁹** programs to capture KDEs and select and enter location details for CTEs.

2. For UPT data that is no longer required, use the **UPT Purge and Archive¹⁰** program to manage or remove data by archiving or purging it.

3. Use the report function to build and customize a report from the selected UPT data.

¹Program: LOTPKE

²Program: LOTPTE

³Program: LOTPLO

⁴Program: LOTPKC

⁵Program: LOTPTS

⁶Program: LOTPTT

⁷Program: LOTPTC

⁸Program: LOTPTS

⁹Program: LOTPTT

¹⁰Program: LOTPPU

Status Codes

Traceability status

The following indicates the possible status codes of the captured UPT data, using the **Unified Product Traceability Status**¹ program.

Status	Description
N - INCOMPLETE	This indicates that the further information is required for your intended traceability element. The data can be added using Unified Product Traceability Tracking ²
Y - COMPLETE	This indicates that the intended traceability element contains the required data.

¹Program: LOTPTS

²Program: LOTPTT

Affected programs

The following indicates areas in the product that may be affected by implementing this feature:

Setup programs

Stock Code Maintenance

Program List > Inventory > Setup

This program lets you capture and maintain details of stock items that your company uses or sells.

- We've added the new **UPT required** checkbox in the **Unified product traceability** section of the **Tracking** pane.

Critical Traceability Element

Program List > Quality Management > Unified Product Traceability > Setup

This program lets you add, change and delete critical traceability elements.

Key Data Element

Program List > Quality Management > Unified Product Traceability > Setup

This program lets you add, change and delete key data elements.

Critical Traceability Locations

Program List > Quality Management > Unified Product Traceability > Setup

This program lets you add and delete critical traceability locations.

Configure Critical Traceability Element

Program List > Quality Management > Unified Product Traceability > Setup

This program lets you configure key data elements and critical traceability locations for critical traceability elements.

Period End programs

UPT Purge and Archive

Program List > Quality Management > Unified Product Traceability

This program lets you purge and archive UPT data as well as archive non-current CTE configurations.

Batch programs

Unified Product Traceability Status

Program List > Quality Management > Unified Product Traceability > Transaction Processing

This program lets you review the status of UPT data captured for items. You can choose the critical traceability elements to include as well as which items.

Unified Product Traceability Tracking

Program List > Quality Management > Unified Product Traceability > Transaction Processing

This program lets you select lot or serial transactions for the relevant transaction types allowed for critical traceability elements.

Unified Product Traceability Data Entry

*Accessible from the **UPT Data Entry** function in the **Transaction Review** pane of the Unified Product Traceability Tracking program or from the **Change Selected UPT Data** function in the **Traceability Status** pane of the Unified Product Traceability Status program.*

This program lets you capture key data elements as well as select and enter location details for critical traceability elements.

Affected business objects

The following indicates the business objects that are affected by this feature:

Setup objects

Inventory Stock Code Maintenance

The **INVENTORY STOCK CODE MAINTENANCE**¹ business object is used to add, update or delete inventory stock codes.

Additional information

When defining stock codes, information can be captured about its replenishment, production, tracking and sales. If required, any additions, deletions and amendments to the stock file can be retained along with the name of the operator who made them by selecting the SYSPRO Inventory Setup option: Amendment journals required (Setup | Distribution Setup | Inventory | General tab).

Additionally, triggers can be defined (File | Customization | Trigger Programs) to automatically execute multiple actions such as running a NetExpress program, running an application or writing to the Message Inbox when a stock code is added, updated or deleted.

When adding a stock code and a value is not supplied against a non-mandatory element, the element value will default to that defined against the Global Defaults in SYSPRO Stock Code Maintenance.

Alternatively, if Product Class Defaults have been defined in SYSPRO Stock Code Maintenance and a product class is supplied in the parameter ApplyProductClassDefault, these defaults will be applied.

The method used dictates which maintenance function is being performed on stock codes.

- Add - Adds new stock code
- Update - Updates existing stock code
- Delete - Deletes existing stock code

Warehouses in which the stock code is stocked cannot be added or changed using this business object. In addition, the entry against the element WarehouseToUse is not validated. To define the stock warehouse records, use **INVENTORY STOCK/WAREHOUSE MAINTENANCE**².

Only the stock code's list price code can be defined using this business object. To define both the list price record and additional price codes against the stock code, use **INVENTORY PRICE MAINTENANCE**³.

Critical Traceability Element Setup

The **CRITICAL TRACEABILITY ELEMENT SETUP**⁴ business object allows traceability elements to be added, changed, and deleted, and supports configuration of the transactions that apply to each element.

Key Data Element Setup

The **KEY DATA ELEMENT SETUP**⁵ business object enables key data elements to be added, changed, and deleted.

Critical Traceability Location Setup

¹Business object: INVSST

²Business object: INVSWs

³Business object: INVSPR

⁴Business object: LOTSTE

⁵Business object: LOTSKE

The **CRITICAL TRACEABILITY LOCATION SETUP**¹ business object allows critical traceability locations to be added and deleted.

Transaction objects

Configure Critical Traceability Element

The **CONFIGURE CRITICAL TRACEABILITY ELEMENT**² business object configures key data elements and critical traceability locations against critical traceability elements.

Unified Product Traceability Data Entry

The **UNIFIED PRODUCT TRACEABILITY DATA ENTRY**³ business object captures data against key data elements and critical traceability locations for critical traceability elements applied to lot or serial transactions.

UPT Purge and Archive

The **UPT PURGE AND ARCHIVE**⁴ business object allows Unified Product Traceability data to be purged or archived.

Query objects

Unified Product Traceability Data Entry

The **UNIFIED PRODUCT TRACEABILITY DATA ENTRY**⁵ business object outputs data captured against key data elements and critical traceability locations for lot or serial transactions.

¹Business object: LOTSLO

²Business object: LOTTKC

³Business object: LOTTTC

⁴Business object: LOTTPU

⁵Business object: LOTQTQ

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