



# Infor LN 10.5

## Release Notes

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### **Publication Information**

Release: Infor LN 10.5 Release Notes

Publication date: June 22, 2016

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## About this guide

This guide describes the new or changed functions and features delivered with Infor LN 10.5.

## Intended audience

This guide provides a high level, summarized overview of the functional and/or technical aspects of the new and/or changed functionality offered in LN 10.5. The intended audience can include key users, system administrators, implementation consultants, support specialists, and so on.

## Contacting Infor

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This chapter describes the features added to enhance the user experience.

## Application Menu

To ensure that the Infor LN application is more intuitive and to improve usability, a number of changes have been made to optimize navigation using the application menu:

### Menu Hierarchy

Menu hierarchies have been reviewed and, where possible, menu entries have been rearranged and regrouped to limit the number of menu levels to a maximum of three.

### Menu entry Labels

Repetitive descriptions in menu entry labels have been removed.

### Role based and process oriented menu structures

Menu entries have been regrouped and re-sequenced to reduce navigation efforts when using the application menu for execution of different tasks, related to a specific role.

### Reduction of menu entries

To reduce the sessions in the menu structure, a number of menu entries have been removed from the application menu as these are typically initiated, in context, from a specific session. For example, the Sales Order session (tdsIs4100m900) has been removed from the menu, as the session is considered as the starting point to access the details of a sales order.

In addition, a number of sessions which provide different views of the same data have been combined into one session. However, it is still possible to see the different views of the data, by using the View option in the session.

### Repositioning menu entries

The primarily used sessions, for example, the ‘360 views’ and ‘workbenches’ have been positioned higher in the menu hierarchy to enable easy access and with minimum navigation effort.

### Show or Hide menu entries based on concepts implemented

If a specific functional concept is disabled, the related menu entries are not visible to the user. When the concept is enabled, the relevant menu entries are displayed in the menu structure.

## Application Screens

### Clean screens

In the LN application, both overview and the details sessions have been reviewed. A number of changes have been made to align screen layout, and to increase consistency within the Infor LN application. In addition, fields have been moved to group boxes to improve screen layout. See “Appendix A” for a list of affected sessions.

### Field positioning

In a number of details screens, fields have been repositioned across tabs, to improve the data entry process, minimize navigation, and time to specify the required data.

### Filters, views, and sorts

Additional (pre-defined) data filters and views have been added in the overview sessions to enable the display of a role, and task oriented data. Also, sorting of data has been improved accordingly to display data in a logical manner (for example, time-phased and priority based).

### Data defaulting

To improve the efficiency of data input, the process to default data when creating new records has been further enhanced.

### Messages, warnings, and errors

For various scenarios, the information that is displayed to the user has been made more precise and constructive to provide users with information and guidance, for problem solving.

### Show or hide fields based on the implemented functional concepts

Currently, the function to hide a concept related field is standard practice. However, a number of fields on screens are still visible after the related concept parameter is disabled. This has been corrected.

In addition, a number of new functional concept parameters have been introduced in order to hide fields and related menu options from sessions, when the functional concept is disabled.

## Application Customization

### Extensibility

This feature can be used to add functionality to a standard product, without conflicts with the standard functionality during normal operations during upgrades of the standard product.

The Customer Defined Field (CDF) concept has been improved. This reduces the requirement for customizations. Extra fields and field hooks can be added to existing tables, forms, reports,

and BODs without conflicts with the standard software. Customer requirements can be solved as extensions to the product, instead of customization of the product.

## Application Personalization

### Role-based menus

Previously, you could define and apply form and menu personalizations at three levels; user, DEM roles, and company level. Now, you can create personalizations at a new Role level. These roles are not similar to DEM roles but are designed to function in a non-DEM context.

You can create roles and assign these roles to users. Role-based personalization is enabled for a user, only if a default role is specified for this user. A role-enabled user can be assigned multiple roles. A user can change their current role to any other assigned role.

### Personalize session menu

A new option (Personalize Session Menus) has been introduced allowing users to hide/show form commands in the View, Reference, and Action menus of the sessions.

### Color-code enum value

A new feature has been developed which allows users to apply the color-coding of enum values, in a session.

### Export and Import of Personalizations

New sessions are introduced to export and import personalization configuration data. The export and import process can be based on a file or an additional file.

In this release, the personalization configuration data includes session personalizations, menu personalizations, and conditional formatting.

### Conditional formatting

Using conditional formatting you can now select the color for the fields in a session. Previously, the color option was only possible for table fields. Now, you can select a color for form fields that are not linked to a table, customer defined fields, and referenced fields.

In addition, multiple formats for a single field in one setup is also supported. The Style options are extended with additional alert icons and a round style for background colors or Badges. The user can also preview the selected style.

### Menu entries as text on the toolbar

In the Personalize Toolbar (ttadv9220m100) session, you can now add form commands as text to the toolbar. In previous versions, you had to link an icon to the form command to display the command on the toolbar. This is no longer required. Even if an icon is not linked to the form command, the command is displayed as text on the toolbar.

## Change the visibility and position of satellite tabs

It is now possible to initially hide the satellite sessions, in the “MMT sessions”. If a satellite session is set to initially hidden, the session is not displayed as a satellite tab when a user starts the MMT session. In the new Personalize Satellite Tabs session, users can now hide or display satellite tabs and also change the position of the satellite tabs.

### Filter menu

In previous versions, you could only access the Filter menu of a session using the Filter icon. Now, you can also access the Filter menu using the Views menu.

### Advanced Filters - Support ‘OR in condition

In the Filters session, you can now use the ‘OR’ operator in conditions. By default, the brackets are set by the session. The OR search operator is given priority in a filter, so you can now specify which values from an enumeration are applicable.

The OR operator is only allowed if this has been configured in the Tools Parameters (ttaad0100m000) and the User Data Template (ttams1110m000) sessions. Enabling the OR operator may adversely affect the performance of the application. If a filter with an OR operator is applied, it may take more time for the data to be displayed on the screen.

### Customer Defined Fields

It is now possible to create more than 20 customer defined fields for each table. If there are more than 12 customer defined fields to be displayed on the Configurable Fields tab of a details session, these fields are spread across three columns.

### Personalization workbench and new forms

A new Personalization Workbench is available to personalize form tabs, field groups, fields, and grid columns in the detail and overview sessions. This workbench replaces the existing Personalize Form session.

## Conversion of grids to task-oriented screens

To help users execute tasks, the usability of a number of existing sessions has been improved. These sessions have been converted to task oriented sessions. This allows users (in a specific role) to access primary task information with fewer clicks and navigation effort; and the ability to preview the workload, using the improved data filter capabilities. In addition, to increase efficiency, these task oriented screens enable the user to execute actions on the displayed workload.

## In-context data views

Measures and performance indicators are now displayed and the user can also view (in-context) graphical data representation embedded in the session. This improves decision making. Current

capabilities are limited to displaying predefined graphs, based on the Infor LN database, in specific Infor LN sessions.

**Note:** The embedded graph in a session is available, in addition to the Infor Ming.le in-context BI application and must not be considered as a replacement. The table lists the sessions with the embedded graphical data representation:

Session	Embedded Graph
Contract 360 (tpctm1300m000)	Contract Margin
Project 360 (tppdm6500m000)	Budget vs. Forecast
Work Center 360 (timfc1501m000)	Load by Work Center
Calls (tsclm1600m100)	SLA Performance by Engineer
Bank Statement Workbench (tfcmg5610m100)	Bank Statement Matching Status
Credit Collector Workbench (tfacr3609m000)	Top-5 Customer Debt
Sales Quotes (tds1s8310m000)	Win/Loss Ratio
Sales Contracts (tds1s8330m000)	Usage vs. Duration
Sales Contract Analysis	Contract Performance
Purchase Contracts (tdpur8330m000)	Usage vs. Duration
Customer 360 (tdsmi1500m000)	Turnover Delivery Performance Trend Invoice Overdue
Supplier 360 (tdsmi1501m000)	Turnover
Inventory 360 (whwmd4300m000)	Inventory Level
Sales Order Fulfillment Workbench	Economic Stock Level
Invoicing 360	Sales Margin
Sales Schedule	Sales Cumulative
Purchase Schedule	Purchase Cumulative

Work Order Activity Workbench	Estimated versus Actual Costs
Part Maintenance Workbench	Estimated versus Actual Costs
Accounts Payable 360	Aging Analysis
Accounts Receivable 360	Aging Analysis
Aging Analysis (ACP)	Aging Analysis
Aging Analysis (ACR)	Aging Analysis
Employee Assignments	Assignment by Status Open Assignments by Origin Employee Load
Territory and Preferred Engineer Planning	Capacity Center
Project Bids	Costs and Margin
Funding Distribution	Funding Distribution
Inspections (Service)	Planned versus Measured
Purchase Item 360	On Time Delivery Vendor Rating (top 8) Buying Percentage Price History Planned Available
Distribution by Business Partner	Top 5 Business Partners by Ending Balance
Sales Order Intake Workbench	Profitability
Purchase Contract Line – Analysis	Planned versus Actual (To Date)
Customer Claim	Claimed amount vs Approved Amount
Project Contract Monitor	Project Contract Deliverables
Warehouse Receipts Workbench	Workload by Period
Warehouse 360	Top 10 Hotspots
Corrective Action Plan	Status by Category

	Average Resolution Time by Category Aging Analysis by Category
Non-Conformance Reports	Status by Origin Average Resolution Time by Origin Aging Analysis by Origin
Order Inspections	Status by Origin Average Resolution Time by Origin Aging Analysis by Origin
Intercompany Trade Dashboard (sales)	Realized COGS and Margin Realized COGS Realized Margin Realized Revenues
Intercompany Trade Dashboard (purchase)	Realized Intercompany Trade
Intercompany Trade Workbench (sales)	COGS and Margin COGS Margin Revenues Volume (number of orders)
Intercompany Trade Workbench (purchase)	Amounts Volume (number of orders)
RFQ	Vendor Rating (top 8) Vendor Rating by Supplier Win/Loss Ratio

## Chapter 2 Common

2

This chapter describes the enhancements for Common.

### Authorization and Security

A new functionality that offers options for data authorization is added. The functionality ensures that an employee only works with the data they are authorized to access. An added advantage of only displaying data that an employee is authorized to access, is that employees are not confused and are not required to review too much data. Consequently, the usability of the application is improved.

In LN 10.5, this functionality covers a major part of LN processes such as Requisitions, Procurement, Sales, Project, and Contract Management. The (session) authorization options that Tools and DEM provide are extended with options to define the data access levels of employees based on relevant attributes of the object. The functionality is more applicable for business community. The focus is on employees rather than users.

Examples:

- Project Manager or Cost Engineer is only allowed to:
  - View certain Projects based on the Program of a project
  - Use certain Projects
- Employee is only allowed to:
  - View own Requisitions
  - Modify own Requisitions
- Buyer is only allowed to:
  - Handle Requisitions, RFQs, Purchase Orders of a certain Purchase Office
  - Use certain Projects on a Purchase Order

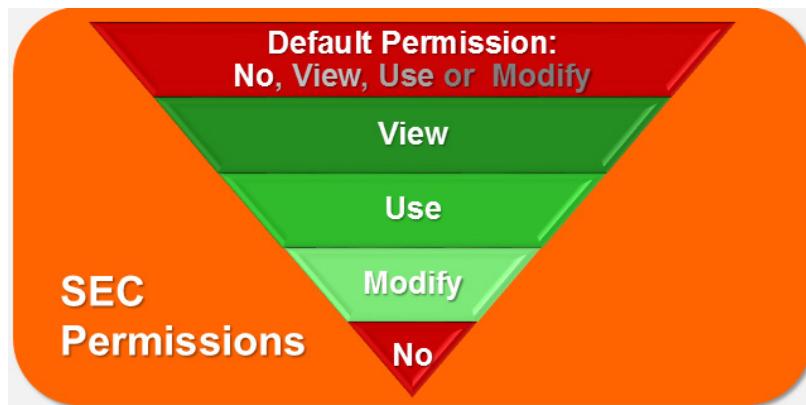
### Setup

The Parameters by company allow the user to apply authorization to the domains currently supported. For ease of maintenance, it is possible to implement the setup in one specific company and multiple other companies can reference this setup. Three types of authorization access can be used:

- Authorization Policy, for example, All Employees can modify their own Requisitions
- Authorization Role, for example, Buyers NL can Modify requisitions of Enterprise Unit NL

- Assigned Rule, for example because of a personal leave an employee needs to take over responsibilities of another employee.

These authorizations types can be used to define permission lines. Permission lines are linked to employees or employee groups. As part of a permission line, the authorizations are defined at the levels, No Authorization, View, Use, or Modify. Defining relevant attributes for permission lines allow the user to differentiate the level of access that must be granted. The priority that must be when applying the levels:



For ease of maintenance, a parameter is available to set the default authorization level.

An option is available to either exclude some logins from authorization checks (such as system interfaces or auditors) or block users completely (employees no longer employed).

History of setup changes and auditing options are also available that allow the user to report on the status at a certain period.

## Apply and Enforce Authorization

Using the Apply option the permissions as defined for employees that directly or indirectly use employee groups that result in corresponding authorized projects, requisitions, and purchase orders.

## Constraints

- The data authorization options are applicable only for LN and not applied Suite wide
- Adoption is object based. This means that data authorization is available to be setup for a number of data objects, within certain processes in LN.
- Delivery of data security capabilities is time boxed, this means that not all sessions in LN are modified to consider the data authorization levels.
- In the future releases, both the number of objects and the number of sessions that support this functionality will be extended.

## Procurement

Using the new functionality for Procurement Permissions, these documents can be authorized:

- Requisitions

- Request for Quotations
- Purchase Orders
- Purchase Contracts
- Purchase Price Books

Examples:

- A buyer has registered a purchase contract which is applicable for multiple purchase offices in the company.
  - The buyer can only modify the purchase contracts for which the buyer is responsible.
  - The purchase manager can view the purchase contracts, only if the manager's Purchase Office is specified as the purchase office.
  - Other buyers can only use and view the purchase contracts for which authorization are provided.
- A buyer has registered a purchase price book which can be used by employees working in the various purchase offices in the company.
  - The buyer can only modify the price books for which the buyer is responsible.
  - The purchase manager can view the purchase price books, only if the manager's Purchase office is specified as the purchase office.
  - Other buyers can only use and view the purchase price books for which authorizations are provided.

## Sales

Using the new functionality for Sales Permissions, these documents can be authorized:

- Opportunities
- Sales Quotations
- Sales Orders
- Sales Contracts
- Sales Price Books
- Sales Catalogs

Examples:

- An internal sales representative has registered a sales order.
  - The internal sales representatives can only modify the sales orders which they created.
  - The sales manager and the other sales representatives of the same sales office can view these sales orders, only if this sales office is specified as the sales office on the order.

## Project and Contracts (TP)

Using the new functionality for Permissions, authorizations can be set for the projects and the project contracts.

Examples:

- Contract managers can only view and maintain their own contracts
- Program managers can view all the contracts of their program.

## Warehousing

Using the new functionality for Warehouse Permissions, warehouses can be authorized.

Examples:

- Prevent warehouse employees from generating outbound advices for all the warehouses. The data permission rules are used to ensure that the employee can only generate outbound advices for warehouses that are assigned to the employee.

## Invoicing

Using the new functionality for Invoicing Permissions, these documents can be authorized:

- Billable Lines
- Invoices
- Manual Sales Invoices

## Manufacturing

Using the new functionality for Sales Permissions, these objects can be authorized:

- Work Centers
- Work Cells
- Projects (PCS)

In this release, the authorization for these objects are added to the most important sessions of Production.

## Finance

Using the new functionality for Finance Permissions, these objects can be authorized:

- Transaction Types
- Dimensions
- Ledger Accounts
- GL-Code

In this release, the authorization for these objects have been added to the sessions for accounts payable.

Authorization of GL-Codes, Dimensions, and Ledger Accounts has also been implemented for Procurement.

## **Intercompany Trade**

Using the new functionality for Intercompany Trade Permissions, these objects can be authorized:

- Intercompany Trade Order
- Enterprise Unit
- Entity
- Financial Company
- Intercompany Trade Classification

## **Item**

Using the new functionality for Item Permissions, items can be authorized. In this release, the Item Data Object has been implemented for Procurement, Sales, Warehousing, Project, Freight, CRM, the most important sessions of Planning and Production, and in the Item Master Data.

Examples:

- Engineers can only maintain items which are assigned to them.
- A buyer can only view the item master data for items which have been assigned to the employee.

## **Business Partner**

Using the new functionality for Business Partner Permissions, business partners can be authorized. In this release, the Business Partner Data Object has been implemented for Procurement, Sales, Warehousing, Project, Freight, CRM, and in the Item Master Data.

Example:

- An account receivables administrator can only maintain the pay-to business partner role for assigned business partners.

## **Contacts**

For easy maintenance of contacts data, you can now use the grid to edit the contact.

# Global Trade Compliance

## Export – Internal Checks

A new module is introduced that offers capabilities to set up information for an item that must be export controlled. When an item is Subject to Trade Compliance, internal checks are executed to validate if that item can be exported. This is done during Sales Order Entry, Contract Deliverable activation, Shipment Freezing and/or Confirmation. The internal checks are executed to ensure that the export compliance information is valid and if the required licenses are available in the system. When a document is checked for export, the success and failures data is also logged. To address the export failure, a session is created to allow a responsible person, such as an Export Compliance Manager, to override the export block. There are Business Partner Exceptions that can be created to allow the exclusion of individual BP from export based on the business situation.

The types of items that usually require export controls are defense related items such as weapons, nuclear materials, and missiles. In addition, there are items that are considered “Dual Use” that can be used in defense and non-defense applications. These types of items are governed by different regulations, based on the government (for example, United States Government or the European Union) that control the item’s export to another country.

## Import – Internal Checks

Additional capabilities are added to setup information for an item that must be import controlled. When an item is Subject to Trade Compliance, internal checks are executed to validate if the item can be imported. This check is executed during Purchase Order Entry, Advanced Shipment Notice receipt, and Warehouse Receiving processes. The internal checks are executed to ensure that the import compliance information is valid and if the required licenses are available in the system. When a document is checked for import validity, the success and failure data is also logged. To address the import failure, a session is created to allow a responsible person, such as an Import Compliance Manager, to override the block on the import. There are Business Partner Exceptions that can be created to allow the exclusion of individual BP from import based on the business situation.

## Global Trade Compliance Setup

Parameters are added by company that enable the Global Trade Compliance functionality. Once implemented, the specific Global Trade Compliance parameters can be set up. The Global Trade Compliance parameters determine if the checks are internal or external and enable the use of specific reason codes to log information about failed export checks.

Based on the setup, you can also capture additional item information (if the item is subject to Trade Compliance). For example, if the item is a Harmonized System Code per Item and if it is a United States Munitions List Category or capture “Dual Use” information such as the Export Control Classification Number (ECCN). After the item is set up, the license information can be captured by:

- Country (group of countries)
- Business Partner (groups of business partners)

- Specific Document Origins (Sales or Contract Deliverable)
- License Information
- Limited Value Information
- Limited Quantity Information

In addition, Business Partner exceptions can be set up if the customer using LN is shipping items as an agent for another customer or shipping to government customers.

## Export Process

When creating a sales order line, if the item is subject to Trade Compliance an internal check can be executed to ensure that the item has the correct setup information for an export situation. An export situation occurs when the country in the ship-from address is different from the ship-to address country. If the export setup is not valid the Sales Order Line is blocked, and export compliance is stated as the reason for the block. This data is logged in a results session that tracks the various origins. A compliance Manager can review and correct the information or override the block.

Internal Export Compliance Checks are applicable for these objects:

- Sales Order Entry
- Contract Deliverable Activation
- Shipment Freeze or Confirmation for any shipment where the countries in the ship-from and ship-to are different.

In addition, the new export information can be printed on the packing slip and the invoice (using the invoice layout, which is set up in Invoicing).

## Import Process

When creating a purchase order line, if the item is subject to Trade Compliance, an internal check can be executed to ensure that the item has the correct setup information for an import process. An import situation occurs when the ship-from address country is different from the ship-to address country. If the import setup is not valid the Purchase Order Line is blocked, and import compliance is stated as the reason for the block. This data is logged in a results session that tracks the various origins. A compliance Manager can review and correct the information or override the block.

Internal Import Compliance Checks are applicable for these objects:

- Purchase Order Entry
- Advanced Shipment Notice, changing the status to Scheduled.

- Warehouse Receipt Confirmation for any receipt where the countries in the ship-from and ship-to addresses are different.

## Resource Management

A new module is introduced to manage resources of the type, Employee. With the introduction of this module, it is possible to assign employees to:

- Project Activities
- Inspection Orders
- Non-Conformance
- Corrective Action Plans
- Production Order operations (Job shop)
- Project (PCS) activities

Assignment to Service Order Activities and Work Order Activities were already possible. Besides manual assignments, assignments can be generated using the Resource Planning functionality. The Planning function is currently only applicable for Project, Service and part of Quality (QM).

All local assignments are displayed in a new Resource Assignments workbench.

## Additional Information Fields

Additional information fields are used in LN to handle pass-through data. Typically pass-through data is transferred using the orders (for example, sales schedules) and must be printed on the delivery documents or must be sent back via the ASN.

The number of pass-through fields was limited to 26 in LN. With this release up to 39 additional information fields of the type, Text can be defined and 39 for each Business Partner can be defined. Also, as part of extended approach some fields of other data types and Customer defined fields can be used.

## Intercompany Trade

Within large enterprises, intercompany trade is an integral part of the business process to fulfill customer demands, especially when multiple sites or organizational units are involved in a business process. Proper handling of intercompany trade is required for legal reasons, for example, intercompany invoicing that must be according to legally accepted transfer pricing rules, and also for management accounting to generate correct financial reporting at the accurate level considering (for example, a business unit structure) different sites or other organizational aspects.

One of the key selling points for Infor LN is the support for intercompany trade processes. This can be a sales order delivered from a site in another country or a transfer of goods between different sites or several other processes. The central element in these business processes is that different organizational entities are involved in this process and a financial transaction is required between these entities.

The intercompany trade process with the internal invoices option, is often used by multisite customers, is improved on several places.

To support intercompany trade, a new Intercompany Trade (ITR) module is created which also contains the relationship data that used to be part of Enterprise Modeling Management (EMM).

### **Intercompany Trade Relationship**

You can now create an Intercompany Trade Relation between an internal selling and buying partner to specify the Intercompany Trade Agreement per Intercompany Trade Scenario (for example, External Material Delivery Sales or Internal Material Delivery).

Intercompany Trade Relationships can be specified at several levels, for example, between Entities and Enterprise Units. Additional relationships between financial companies, a warehouse and a financial company or one Enterprise Unit and the other Enterprise Units are also introduced.

The number of Intercompany Trade Scenarios is extended, to:

- Specify different Intercompany Trade Agreements for different scenarios
- Support specific aspects of the different scenarios

### **Intercompany Trade Order**

In addition to the revised set up of intercompany trade relations, the concept of intercompany trade orders has been introduced. This order is created early in the business process, for example, after creating a sales order with a delivery warehouse from another legal entity. This order enables:

- Visibility of the intercompany trade details that is already in an early stage of the intercompany trade process. These details such as the intercompany price can also be changed, if required. Additionally, this avoids disruptions of the logistical process, for example, a shipments which cannot be confirmed because of intercompany trade issues. This also reduces the manual corrections, if any, at a later stage in the process.
- The support of the approval processes by both parties involved. This is optionally supported by a workflow.
- A better reporting on intercompany trade.

In general, all these steps can be executed automatically, so that the daily process is not impacted.

## Calendars

For the planning and execution of production and procurement, it is important to know the availability of the applicable departments (work centers, warehouses, offices) and business partners. In Infor LN, these time periods are defined in the calendars.

To enhance the usability and the functionality of the calendars following changes have been implemented:

- Introduction of the “Shift”
- Phase out of the Working hour type
- Enhancement of the Workweek
- Introduction of date effective workweeks

### Shift

In a company, the production work force is organized in shifts. Most common are the one, two, or three shifts models. However, the more comprehensive models that include, for example, a single shift in a weekend also occur.

The concept of shifts is a requirement for the repetitive manufacturing solution. Work cell hours and labor hours are booked per shift. Shifts are also used in the OEE calculation in repetitive scenarios, as the smallest time bucket.

Not all departments are organized in shifts, hence, shifts are optional. The use of shifts is defined per availability type.

The functionality of the “mask” has been extended to enable the generation of the shift.

### Working hours types

The Working hours types are stored in a separate table and are only used as defaults.

It is now possible to skip the extra step of creating the types for working hours in a separate table and maintain the same directly in the Work Week session.

### Workweek

The calendar definition consists of two parts:

- The definition of the non-available and available days
- The definition of the working hours per day.

The non-available and available days are defined based on the ‘calendar code’.

The working hours for each day are defined based on the ‘availability type’. Linked to the ‘availability type’ is a work week pattern where the working days, hours, and shifts are defined. The new session is Workdays (tcccp0130m000).

### Date effective workweeks

Many companies cope with seasonal demand by organizing an extra shift over a limited period of time. It is possible to define multiple date effective workweek patterns for each availability type.

Therefore, it is now possible to generate, in advance, a calendar with different working hours over time.

## Tax Numbers by Business Partner

EU Tax numbers can be verified using the VAT Information exchange system. It is now possible to additionally store, the following information that is returned from the web service as proof of verification.

- Verification Date and User
- Consultation Number
- Registered Name
- Registered Address

## Small Business / Disadvantaged Business

It is now possible to define business types, such as small business or disadvantaged businesses, of the supplier in the Buy-from Business Partner role.

## Archive and Delete

Archive to company can now be specified in General Company Data (tccom0502m000) session. Archiving and deleting process have been streamlined and considers the value specified for the 'Archive to company' check box.

This chapter describes the enhancements to Procurement.

## Requisitions (REQ)

A new parameter is introduced to include a buyer on the REQ line. Some customers have buyer by item determine conversion logic of the REQ lines. This gives additional flexibility to buyers when reviewing and converting approved REQ lines. When this parameter is implemented, the buyer on the REQ line is used for conversion of the REQ line to a request for quotation or a purchase order. The buyer on the REQ line is defaulted from the item purchase data records and if the data is not specified, from the REQ Header. In addition, when this parameter is implemented, each REQ line can be converted instead of the conversion of the entire REQ.

Project information has been added to the REQ header and the data is defaulted to the REQ lines. When a REQ is specified for multiple lines (up to a hundred) for the same project, it takes time for the user to enter project information on each REQ line. Now, it is possible to enter Project Information such as Project, Element and/or Activity, Cost Component on the Header and this data defaults to each REQ line. When changes are made on the REQ Header to Project Information the REQ Header/Lines synchronization session includes the Project Information.

## Request for Quotations (RFQ)

This section describes the enhancement for RFQs.

### Recalculation of prices and discounts

A new feature is added to the RFQ lines to enable recalculation of the prices and discounts. In 10.4 and previous Infor LN versions, it was only possible to recalculate prices and discounts of one RFQ response line at a time. With 10.4.2, it is possible to select multiple RFQ response lines or all RFQ response lines and recalculate prices and discounts, which improves usability.

### Initiate RFQ Negotiation

You could initiate RFQ Negotiations using two different methods. The new button would start a new record with zero price and the action to create a negotiation would start a new RFQ negotiation, with any response added from the Responses tab.

The start of a RFQ negotiation has been made more intuitive as the 'new' button is the only option to specify a new RFQ negotiation. The Create Negotiations button and Action menu has been removed. When you start a new RFQ negotiation any response price information from the RFQ Response Tab is included. If, response price information was not entered on the RFQ Response tab prior to starting the RFQ negotiations, the new RFQ negotiation starts with a zero price.

## Request for Quotation Workbench

A new workbench is created to make it easier to find request for quotations, based on the response due date and provide a single location to work on RFQs using filters.

Purchase RFQ Workbench with filters on typical fields that help a buyer find the required data:

- Purchase Office
- Buyer
- Bidder
- Item

Operational filters can help a user find contracts that are past the response date, should have received a response by today or should receive a response soon. The user can review these RFQs to determine the type or response that must be specified. The available filters:

- Due Beyond 7 days
- Due 1-7 days
- Due Today
- Past Response Date

Other Operational filters help Buyers find RFQs that must to be printed, or are in the negotiation phase, or negotiations are finished but the conversion type has not been set but are ready for process to be converted to the appropriate conversion type.

Additional filters help a user find RFQs of a specific status. Using the filters, a user can find RFQs that require a process step:

- Print
- Negotiating
- Awaiting Conversion Type
- Ready for Process

## Purchase Contracts

This section describes the enhancement for purchase contracts.

### Responsible Buyer and Responsible Purchase Office

To support the Data Authorization functionality for the maintenance of purchase contracts, two additional fields are added to the purchase contract:

- Responsible Buyer
- Responsible Purchase Office.

See "[Data Authorization for Purchase Contracts and Purchase Price Books](#)" on page 12.

## Purchase Contracts Workbench

A new workbench is created to make it easier to find contract lines that are reaching the expiry date and provides a single location to work on contracts using filters.

Purchase Contract Workbench with filters on typical fields that help a buyer find the required data are:

- Purchase Office
- Buyer
- Buy-from Business Partner
- Item

Additional filters help a user to find contracts with a specific status. Based on the filters, a user can find a contract and the related status:

- Active
- Free
- Terminated

Operational filters can help a user find contracts that have expired, set to expire today or soon. The user can review these contracts to determine, if the same must be extended, terminated, or new negotiations should be started. The available filters:

- Expiry Beyond 7 days
- Expiry 1-7 days
- Expiry Due
- Expiry Past Due

An additional operational filter is included to create a search based on the duration of the contract, and to view the quantity to be called off against the contract. This helps users to find contracts that are under or over performing and investigate if these contracts must be renewed, re-negotiated, or terminated without any further actions.

## Purchase Contract Defaulting

In previous releases, the process to default Purchase Contracts on manually entered or generated Purchase Orders was different when compared to the suggested parameters titles.

The names of the purchase contract parameters have been changed to better describe the functionality of the parameters, with regards to manually entered and generated Purchase Orders. In addition, the application has been checked to ensure the software is working as per the intended logic of the parameters.

## Interactive Contract Linking

If this parameter is selected and several contract lines are effective and active, the user can select the contract line with the most suitable price and discount. This parameter is applicable when a user can manually link contract lines to Purchase Order Lines and Purchase Orders, but not Purchase Schedules.

## Link Special Contract Automatically

If this parameter is implemented and several special contract lines are effective and active, the purchase order line is automatically linked to the first available special contract. If only one normal or one special contract is effective and active, LN automatically links the same. If this check box is cleared, and several special contract lines are effective and active, a contract line is not linked to a special contract.

## Select Special Contract at Transfer from Enterprise Planning

This parameter determines process to link purchase contracts when transferring planned purchase orders from EP to actual purchase orders. When this parameter is implemented and several special contracts lines are effective and active for a planned purchase order, a window is displayed to select which special contract must be used during the transfer.

## Price Books

This section describes the enhancement for price books.

## Responsible Employee and Office

To support the Data Authorization functionality for the maintenance of price books, two additional fields are added to the price book:

- Responsible Employee
- Responsible Office.

See [“Data Authorization for Purchase Contracts and Purchase Price Books” on page 12.](#)

## Delete Duplicate Lines without Expiry Date

The session Global Delete of Price Information (tdpcg0200m000) has introduced a new field to help with deleting price data. When this field is check (which is the default value) during the deletion process also record without an expiry date are deleted, but only in case an unexpired

record exist.

When the field is unchecked only expired records are deleted.

## General Use

In earlier versions, a Price Book used for a Purchase Contract or Request for Quotation could not be used on other objects. This restriction has been removed from Price books by adding a new General Use check box. When selected the price book can be used with Contracts or Request for Quotations instead of just being used for Contracts only. The other fields Used for Contracts and Used for RFQs are still available.

## Purchase Orders

This section describes the enhancement for purchase orders.

### Landed Costs on Back Orders

In case of a back order on a purchase order line with landed costs, the landed costs as specified on the original purchase order line are defaulted to the back order.

### Navigation from Order to Payment information

Navigation from purchase order to supplier payment information has been improved. In the Reference menu of the Purchase Order Line, Business Partner Payments – Order Information option has been added. After an order line has payment information from Accounts Payable, it is possible to view the information for each order line or the entire Purchase order.

### Purchase Order Intake Workbench

A new Purchase Order Intake Workbench (tdpur4601m200) session has been created to help locate purchase order lines based on certain criteria. This is a task oriented session that allows a user to easily locate purchase order lines that must be approved, printed, and released to warehousing or locate lines for which manual activities must be performed. This session also enables you to view the workload data using filters. The workbench enables the buyer to locate all the delayed purchase order lines for which an activity must be performed.

This session includes filters provided for specific fields that help internal buyers locate the specific data:

- Purchase Office
- Buyer
- Buy-from Business Partner
- Item

Additional filters are provided to help a user locate purchase order lines of a specific situation. Based on these filters, a user can locate purchase order lines with the related status:

- Approve
- Print Acknowledgement
- Release to Warehousing
- Release Manual Activities

Additional filters are provided which help a user to search for the purchase order lines of a specific situation. Based on these filters, a user can search for purchase order lines with the related status:

- Confirmed Back Orders
- Confirmations

A buyer can perform various actions required to process specific records or multiple records using this workbench.

## Purchase Order Fulfillment Workbench

A new Purchase Order Fulfillment Workbench (tdpur4601m100) session has been created to help locate purchase order lines based on certain criteria. This is a task oriented session that allows a user to easily locate purchase order lines that are past the due date, due today, due within 1-7 days or due after 7 days. This session also enables you to view the workload data using filters. The workbench provides the buyer the ability to search for all the delayed or due today purchase order lines and also provides options to determine the process to address the possible shortage or delay.

This session includes filters provided for specific fields that help internal buyers search for specific data:

- Purchase Office
- Buyer
- Buy-from Business Partner
- Item

Additional filters are provided to help a user search for purchase order lines of a specific situation. Based on these filters, a user can search for purchase order lines with the related status:

- Back Ordered
- Returns

Operational filters are provided which help a user to locate the purchase order lines of a specific situation. Based on these filters, a user can locate purchase order lines with the related status:

- Past Due
- Due Today

- Due 1-7 Days
- Due Beyond 7 Days

A buyer can perform the various actions required to process specific records or multiple records at the same time using this workbench.

The Actions menu includes options to address a possible or actual inventory shortages that can be executed for each order line and also check the alternative item inventory, the order pegging, and split deliveries. If alternative inventory is available and acceptable, delay from the supplier can be mitigated. Order pegging is used to identify a multi-level list of demand orders that (production or sales) determine the demand for this purchase order line and its priority. Before a receipt is issued, if a shortage occurs the buyer can split the purchase order lines. A user can also view the received order lines and locate the payable receipts.

In addition, a graph displays the economic stock level with the actual on hand inventory of the item for the purchase order line.

## Purchase Releases

This section describes the enhancement for purchase releases.

### Purchase Release workbench

A new Purchase Releases workbench (tdpur3620m000) session has been created to help locate purchase releases based on certain criteria. This is a task oriented session that allows a user to easily locate purchase releases that must be sent immediately, sent on the current date, or have missed the issue date. This session also enables you to view the workload data using filters. The workbench provides the buyer the ability to search for all the delayed purchase releases or the releases that are not issued on time.

This session includes filters provided for specific fields that help internal buyers search for specific data:

- Purchase Office
- Buyer
- Buy-from Business Partner
- Item

Additional filters are provided to help a user locate purchase releases of a specific situation.

Based on these filters, a user can search for releases and the related status:

- Created
- Scheduled
- Sent

Operational filters can help a user search for purchase releases that are past due, due on the current date, or due soon. The available filters:

- Issue Date Past Due

- Issue Date Due Today
- Issue Date Due 1-7 Days
- Issue Date Due Beyond 7 Days

## Purchase Schedules

This section describes the enhancement for purchase schedules.

### Purchase Schedule workbench

A new Purchase Schedule Workbench (tdpur3610m100) session has been created to help locate purchase schedules based on certain criteria. This is a task oriented session that allows a user to easily locate purchase schedules that are to be delivered immediately, delivered on the current date, or have missed the planned delivery date. The session also enables you to view the workload data using filters. This workbench provides the sales person the ability to locate all delayed, or deliveries that can be delayed, and also provide options to determine the process to address the possible shortage or delay.

This session includes filters provided for specific fields that help an internal sales representative search for specific data:

- Purchase Office
- Buyer
- Buy-from Business Partner
- Item

Additional filters are provided which help a user to find purchase schedules of a specific situation. Based on these filters, a user can search for schedules and the related status:

- ASN Received
- Partial Receipt
- Final Receipt
- Invoiced

Operational filters are provided to help a user search for purchase schedules where the receipt date is past due, due for receipt on the current date, or due soon. The available filters:

- Receipt Date Past Due
- Receipt Date Due Partially
- Receipt Date Due Today
- Receipt Date Due 1-7 Days
- Receipt Date Due Beyond 7 Days

Additionally, a graph of the cumulative values is displayed. The CUM Received and the CUM Required data is displayed.

## ASN Handling

A new ASN Details (tdpur3113m000) session is added to view advance shipment notice (ASN) information, which is sent by the supplier and linked to a purchase schedule line.

This session is used to link the appropriate ASN information in the Shipment Notice Lines (whinh3101m000) session and the applicable schedule line in the Purchase Schedule Lines (tdpur3111m000) session. Consequently, modifications and cancellations of ASNs are updated on the relevant schedule lines.

## Supplier Stage Payments

This section describes the enhancement for supplier stage payments.

### Supplier Stage Payment Release Workbench

The Supplier Stage Payments Release Workbench has been revised to have the same usability enhancements as the other workbenches released in 10.4.1.

Supplier Stage Payments (SSP) Release Workbench includes filters on typical fields that help a buyer find the required data:

- Purchase Office
- Buyer

Operational filters can help a user find SSP lines that are past the due date, should have been released for payment by today, or should be released soon. The user can review these SSP lines to determine when and the type of lines that must be released. The available filters:

- Due Beyond 7 days
- Due 1-7 days
- Due Today
- Past Response Date

Additional filters help a user to find SSPs of a specific status:

- Planned
- Released

Based on the above filters, a user can easily find the required SSPs.

## Contract Flow Down

Additional Information Fields have been added to specific Purchase Objects:

- Requisitions (Header and Line)
- Request for Quotations (Header, Lines, Response Lines)

- Purchase Orders (Header and Lines)
- Purchase Schedules (Lines) and Releases (Lines)

If Additional Information Fields (AIF) are set up for the REQ lines, RFQ Lines, Purchase Order Lines, and the Purchase Schedule lines then Contract line AIF fields can “flow down” when the AIFs are the same. An option has been added to print external reports such as Print Purchase Order and Print RFQ, an annex for printing the AIF information that is shared with the Suppliers. Additionally for the specified objects, there is a comparison report to review that when there is a project peg, the Purchase object in AIF is compared to the project peg’s linked contract line.

See Additional Information Fields section.

This chapter describes the enhancements to Sales.

## Sales Quotations

This section describes the enhancement for sales quotations.

### Workflow on Sales Quotations

A new parameter is introduced for the approval of a Sales Quotation. When this parameter is implemented, the ION Workflow can be enabled for Sales Quotations. The approval of a Sales Quote starts the ION Workflow process. Approval from Workflow allows the Sales Quotation to be printed. Rejection from Workflow does not allow the Sales Quotation to proceed to the next step of the process.

### Sales Quotation Workbench

The Sales Quotes session has been converted to a screen similar to the Sales Quotes workbench. This task oriented session that allows a user to easily locate Sales Quotations that are reaching the expiry date and also enables you to work with Sales Quotations using filters.

This session allow filters on specific fields that help an internal sales representative locate their data:

- Sales Office
- Internal Sales Rep
- Sold-to Business Partner

Operational filters can help a user find Sales Quotes that have expired, or are set to today, or reaching the expiry date soon. The user can review these contracts to determine if the same must be extended, terminated, or new negotiations must be started. The available filters:

- Expiry Beyond 7 days
- Expiry 1-7 days
- Expiry Due
- Expiry Past Due

Other Operational filters help Internal Sales Reps find Sales Quotations that must be approved (when applicable) or printed.

## Sales Quotation Parameters

Two new parameters are introduced in the Sales Quotation Parameters (tdsIs0500m100) session to default the values of the Carrier and Route. These parameters are introduced to ensure consistency with the Sales Order defaulting mechanism. If the 'Header value leading for defaulting Carrier on Quote Line-check box' is selected, the Carrier specified for the sales quotation line is retrieved from the sales quotation header. If the check box is cleared, the carrier is selected based on this priority:

1. Items-Sales Business Partner (tdIsa0501m000)
2. Ship-to Business (tccom4111s000)
3. Sales Quotation Overview (tdsIs1500m000).

The retrieval of the default value of the carrier occurs when a sales quotation line is added or updated.

When the 'Header value leading for defaulting Route on Quote Line-check box' is selected, the Route specified for the sales quotation line is retrieved from the sales quote header. When the check box is cleared, the route is retrieved based on this priority:

1. Addresses (tccom4130s000)
2. Sales Quotation Overview (tdsIs1500m000).

The retrieval of the default value for the Route occurs when a sales quotation line is added or updated.

## Sales Quotation Processing

A new option is added to the Process Sales Quotations (tdsIs1200m000) session to set the PCS Project Status when a sales quotation to a sales order. The new field enables the user to set the status of the PCS project when the sales order is created. This is consistent with the options specified for a sales order. The status options:

1. Free
2. Simulated
3. Active

In previous versions, the status of the Project (PCS) could only be set to Free.

## Sales Orders

This section describes the enhancement for sales orders.

### Sales Order Intake Workbench

A new Sales Order Intake Workbench (tdsIs4601m200) session has been created to help process Sales Order Lines based on certain criteria. This is a task oriented session that allows a user to easily search for the sales order lines that must be approved, printed, released to warehousing, released to Invoicing, and generate purchase order or for which manual activities

must be executed to release the order. This session also enables you to view the workload data using filters. This workbench enables a sales person to locate all sales order lines with specific status and process a particular step of the order type.

This session includes filters provided for specific fields that help an internal sales representative I search for specific data:

- Sales Office
- Internal Sales Rep
- Sold-to Business Partner
- Item

Operational filters can help a user search for sales order lines that must include a specific step in the process to be executed such as approval, print acknowledgement, and release to Warehousing. The available filters:

- Approve
- Print Acknowledgement
- Release to Warehousing
- Release to Invoicing
- Generate Purchase Order
- Release Manual Activities

Additional filters are provided which help a user to search for the sales order lines of a specific situation. Based on these filters, a user can locate contracts and the related status:

- Confirmed Back Orders
- Installments

Additionally, a graph displays the profitability of each sales order line. The profitability is calculated based on the sales order parameter, base price for gross profit calculation setting, and the sales order line net price.

## Sales Order Fulfillment Workbench

A new Sales Fulfillment Workbench (tdsIs4601m100) session has been created to help locate the Sales Order Lines based on certain criteria. This is a task oriented session that allows a user to easily search for the sales order lines that are soon to be delivered, must be delivered on the current date, or have missed the planned delivery date. This session also enables you to view the workload data using filters. This workbench enables a sales person to search for all the deliveries that are delayed or deliveries with possible delays, and also provide options to determine the process to address the possible shortage or delay.

This session includes filters provided for specific fields that help an internal sales representative locate specific data:

- Sales Office
- Internal Sales Rep
- Sold-to Business Partner

- Item

Additional filters are provided which help a user to search for the sales order lines of a specific situation. Based on these filters, a user can locate contracts and the related status:

- Back Ordered
- Returns

Operational filters can help a user locate sales order lines that are past the due date, due for on the current date, or due soon. The user can review these sales order lines to determine possible shortages and the available options to address these shortages. The available filters:

- Expiry Beyond 7 days
- Expiry 1-7 days
- Expiry Due
- Expiry Past Due

You can use grid filtering to review the customer priority and order priority to identify which possible or actually delayed orders must be addressed first. The Actions menu includes options to address a possible or actual inventory shortages that can be executed for each order line and also check the alternative item inventory, the order pegging, and split deliveries. If alternative inventory is available and acceptable to the customer, the alternative item can be modified on the sales order line and processed. Order pegging is used to identify a multi-level list of supply orders (production or purchase) to determine the items that have been received. Before the shipment, if a shortage occurs the sales person can split the deliveries (if the customer agrees). You can also view the delivered order lines and locate the invoice lines that can be released to Invoicing.

Additionally, a graph displays the economic stock level with the actual on hand inventory of the item on the sales order line.

## Blocking based on Global Trade Compliance – Export option

To support Global Trade Compliance checks on sales order lines, new blocking reason codes based on Global Trade Compliance parameters have been created to note when a sales order line is blocked, based on the Export process that is implemented. In addition, a new field is added to the sales order line to identify when an item is Subject to Trade Compliance. This field is active when the Export option is implemented in Global Trade Compliance. The check is executed when a Sales Order Line is saved and internal checks are implemented using the Global Trade Compliance parameters. A user can perform Check Trade Compliance as an action after the Sales Order Line is initially saved.

## Sales Contracts

This section describes the enhancement for sales contracts.

## Line Minimum order Quantity

A new field Sales Contract Line Minimum Order Quantity is introduced. Prior to the 10.4 release, it was not possible to set up a customer specific minimum order quantity for sales schedules or sales orders. A number of companies have requested for this functionality for specific items where they need to capture a minimum order quantity, similar to what is already available in the procurement area. This field was already added to Item Sales and also to Item Sales Business Partner to support the setup of customer specific minimum order quantities. The process to default the value from Item Sales Business Partner to the Sales Contract Line is introduced to provide more flexibility. This new field is published to SRM to provide additional functionality for automotive customers. When a sales schedule is created from SRM, this field can be used to alert a sales personnel that a schedule line is generated and the minimum order quantity varies. The actual quantity from the customer is considered and transferred to LN. Additionally, when using sales orders, the Item Sales Business Partner minimum order quantity is checked and messages are displayed if the sales order line minimum order quantity does not meet the requirement.

## Workflow on Sales Contracts

Sales Contracts have been enabled to work with ION Workflow. Activation of a Sales Contract (Header) starts the ION Workflow process. Approval from Workflow allows the activation of the Sales Contract. Rejection from Workflow does not allow the activation of the Sales Contract.

## Sales Contracts Workbench

The Sales Contracts session has been converted to a screen similar to sales contract workbench. This is a task oriented session that allows a user to easily find contract lines that are reaching the expiry date and also enables you to view workload data using filters.

This session includes filters on specific fields that help an internal sales representative locate their data:

- Sales Office
- Internal Sales Rep
- Sold-to Business Partner
- Item

Additional filters help a user to find contracts of a specific status. Based on these filters, a user can find contracts and the related status:

- Active
- Free
- Terminated

Operational filters can help a user find contracts that are expired, expiring today, or soon. The user can review these contracts to determine if the same must be extended, terminated, or new negotiations must be initiated. The available filters:

- Expiry Beyond 7 days

- Expiry 1-7 days
- Expiry Due
- Expiry Past Due

An additional operational filter is included to create a search based on duration of the contract, and to view the quantity to be called off against the contract. These filters can help users find contracts that are under or over performing and investigate if these contracts must be renewed, re-negotiated, or terminated without any further actions.

## Sales Contract Defaulting

In previous releases, the process to default Sales Contracts on manually entered or generated Sales Orders was different when compared to the suggested parameters titles.

The names of the Sales Contract Parameters have been changed to better describe the functionality of the parameters, with regards to the manually entered and generated Sales Orders. In addition, it has been ensured that the software is working as per the intended logic of the parameters.

## Interactive Contract Linking

If this parameter is selected and several contract lines are effective and active, the user can select the contract line with the most suitable price and discount. This parameter is applicable when a user can manually link contract lines to Sales Order Lines and Sales Orders, and not Sales Schedules.

## Special Contracts linkage

If this parameter is implemented and several special contract lines are effective and active, the Sales Order Line is automatically linked to the first available special contract. If only one normal or one special contract is effective and active, Infor LN automatically links this one. If this check box is cleared, and several special contract lines are effective and active, a contract line is not linked to the special contract.

## Additional Criterion for Contract Line Identification

Based on the requirement, it is possible to have an additional criterion for contract line identification. Using this new attribute data can be specified with the Model/Year, and also specified for other purposes.

A new Customer Contract Reference contract line attribute has been added to the contract line. For usability reasons, the attribute is also added to the contract header.

## Customer Order Number Handling on Contracts

Based on the requirement, it is possible to display the customer order number for schedules, defined at the item level, on a sales contract line.

Consequently, the Action on Deviating Customer Order and Action on Deviating Empty Customer Order attributes must also be defined at the contract line level.

## Sales Releases

This section describes the enhancement for sales releases.

### Sales Release Workbench

A new Sales Release Workbench (tds1s3612m100) session has been created to help locate sales releases based on certain criteria. This is a task oriented session that allows a user to easily locate sales releases that must be processed or with exceptions that were created during processing. This workbench enables a sales person to locate all releases that require special attention and also provides options to determine the process to address the possible exceptions.

This session includes filters provided for specific fields that help an internal sales representative locate specific data:

- Sales Office
- Sold-to Business Partner
- Ship-to Business Partner
- Creation Date
- Item
- Customer Item

Additional filters are provided which help a user to search for sales releases of a specific situation. Based on these filters, a user can search for releases and the related status:

- Created
- Processed
- Exception
- Superseded

Operational filters can help a user locate sales releases with exceptions of the type, Warning or Errors. The available filters:

- Warnings
- Errors

### Superseded status

Currently, the status, Superseded is not applicable for a sales release header.

If the customer's release revision for a release, being processed, is lower than a release already processed to a sales schedule, the sales release is rejected and the status of the line is Superseded. However, the status of the release header remains as Created which can be confusing. This has been changed and the header status is now updated to 'Superseded', if the status of all the lines is Superseded.

## Sales Schedules

This section describes the enhancement for sales schedules.

### **Sales Schedule Workbench**

A new Sales Schedule Workbench (tds1s3611m100) session has been created to locate sales schedules based on certain criteria. This is a task oriented session that allows a user to easily search for sales schedules that must be approved, shipped on the current date, or have missed the planned delivery date, and also enables you to view workload data using filters. This workbench enables a sales person to search for all the deliveries that are delayed or deliveries with possible delays, and provide options to determine the process to address the possible delay.

This session includes filters provided for specific fields that help an internal sales representative search for specific data:

- Sales Office
- Internal Sales Representative
- Sold-to Business Partner
- Ship-to Business Partner
- Item
- Customer Item

Additional filters are provided which help a user to search for sales schedules of a specific situation. Based on these filters, a user can search for schedules and the related status:

- Created
- Approved
- Processed
- Exceptions

Operational filters can help a user to search for sales schedules when the start date is past the due date, due for today, or due soon. The available filters:

- Start Date Past Due
- Start Date Past Due Partially
- Start Date Due Today
- Start Date Due 1-7 Days
- Start Date Due Beyond 7 Days

Additionally, a graph displays the cumulative values. The CUM Shipped and the CUM Received data is displayed.

### **Link Consumption Invoice lines to Schedule Requirement Line**

A sales schedule parameter has been introduced to have schedule consumptions linked to the requirement lines (schedule lines / planned warehouse order lines) rather than the schedule header only.

## **Support Backorders for Pick-up Sheets**

To support backorder handling and updating of partially shipped pick-up sheet requirements, these changes have been implemented:

- It is now possible to create a backorder (planned warehouse order) when shipping items, less than the ordered (final shipment) quantity, for a pick-up sheet requirement. The customer must set the shipping constraint to None, in the contract line logistic data.

It is possible to update the requirements (that is, the backorder) after partial shipment. This can only be achieved when revisions, with the full replacement concept is used for schedules linked to pick-up sheets.

### **Link Consumption Invoice lines to Schedule Requirement Line**

A sales schedule parameter has been introduced to have schedule consumptions linked to the requirement lines (schedule lines / planned warehouse order lines) rather than the schedule header only



This chapter describes the enhancements to Warehouse Management.

## Shipments

This section describes the enhancement for shipments.

### Single Shipment from Multiple Warehouses

Previously, shipment lines from different ship-from warehouses were always assigned to different shipments. This shipment criterion can now be modified by the user to allow for the grouping of shipment lines from multiple warehouses into one shipment.

This has been achieved by adding a *Shipment through Warehouse* property to the Warehouses (whwmd200) entity, which affects shipment building. This property has been added to the Shipments tab of the Warehouses (whwmd2500m000) session. The concept of building a single shipment originating from multiple warehouses is based on the assumption that the related warehouses are physically, or geographically, close to each other, either sharing the same building or located in adjacent buildings. The transportation or transfer lead time between the warehouses linked to the same 'Ship through Warehouse' is considered to be negligible.

In case the '*Shipment through Warehouse*' of a warehouse is set to Yes, this warehouse is considered to be a member or 'sub warehouse' of a set or cluster of related warehouses, and the '*Shipment through Warehouse*' is considered to be the 'main warehouse' from which shipment or transportation is done. Shipment building creates a shipment having the '*Shipment through Warehouse*' as the ship-from entity on the shipment header. The shipment line displays the original warehouse from which the goods were picked.

### Predefined device on Freeze or Confirm Shipments or Loads

To improve flexibility with regards to device selection for printing shipping documents, without relying on the User Profile – related defaults, the shipment freeze or confirmation process has been slightly modified. As the devices used by employees may vary from shift to shift, a process has been enabled that displays a popup screen for the user to define the printer that must be used, each time a batch of loads or shipments is frozen or confirmed. This device applies to all types of shipping document, printed (automatically) during the process. For this purpose, a Print Documents to Predefined Device field is now available.

## Performance Improvement Warehouse - Item Inventory session

Due to inaccurate calculation of the values in the 'Total' fields, the performance of this inventory view session was not as expected, when the Item view is selected. This has been solved by minimizing the number of calculations made by the application. Also, the values for hidden fields are no longer calculated.

## Removal of free-format order number option on Warehouse Order

The existing option to enter a free-format order number, when creating a manual warehouse order, deviates from the standard approach and has been removed. The user can either use an order series defined to create a new order number or select an existing warehouse order to which the new item lines can be added.

## Separate issue or shipment rejected items vs. regular items

For segregation of duty, the issue and shipment of rejected items from (quarantine) inventory transferred back to the suppliers can be separated from the regular issue and the shipment of goods from a warehouse. This is enabled using a new **Include Return Reject Orders** check box. By default, this check box is active, if the existing 'Include Return Orders' check box is selected.

## Additional information on outbound advice messages

The user is now better informed regarding the reason the system does not find the required quantity available in inventory. The 'Shortage of X pieces for outbound line XX. Insufficient Inventory of type 'Company Owned or Consigned for item Y in warehouse ZZZ' message did cause confusion (in particular when inventory levels indicate that sufficient stock is available). By using the More Information option on this message for inventory shortage, a pop-up is triggered which displays the additional details, through the Warehouse – Item Inventory (whwmd2115s000) session. In addition, the Outbound Advice Log is enhanced to provide the user with more details about the reasons for which the inventory shortages are detected.

## Property Defaulting on Warehouse Transfers

The process to default shipping-related properties has been improved. Warehouse transfer orders are created either using a manual entry or batch generation processes such as TPOP and Enterprise Planning. In these processes, options have been introduced to default various properties to the generated warehouse transfer orders, so that the user is not required to complete the missing data manually, at a later stage. The updated properties:

- Carrier

- Terms of Delivery
- Freight Service Level
- Point of Title Passage

## Revised Negative Inventory Setup

As a warehouse can contain different kinds of items used for various purposes (sales items, production components, spare parts, and so on.), the Allow Negative Inventory functionality can now be set at the item level in a warehouse. In principle, the Negative Inventory concept allows *administrative* inventory levels below zero, so that the logistic process does not stagnate, in case of shortages detected by the system. Particularly, when 'back flushing' production components, negative administrative inventory levels must not be an issue.

Previously, the parameters to allow (advanced) negative inventory within the ERP application were defined at the company parameter level. However, for the existing 'advanced negative inventory' functionality, some settings can be maintained on the item, item group, and item by warehouse level.)

The (advanced) negative inventory parameters in the Inventory Handling Parameters (whinh0100m000) session have been consolidated to a single parameter, Allow Negative Inventory (Y/N).

In the Item-Warehousing (whwmd4100s000), Item-Warehousing Defaults (whwmd4101s000), and Warehouse-Item (whwmd2110s000) sessions. This parameter is added to the related group box, which has been renamed to 'Negative Inventory'. However, in these sessions, the Allow Negative Inventory parameter includes the No, Yes, and If On Order options, to enable negative inventory administration only if 'on order' inventory exists for the related item and warehouse combination.

If the 'Allow Negative Inventory' parameter in Inventory Handling Parameters is not active, the corresponding fields on item (default) and warehouse-item level are not displayed (including the negative inventory fields). If the 'Allow Negative Inventory' parameter in Items-Warehousing (whwmd4500m000) session is set to 'No', the related field at the Warehouse-Item (whwmd2510m000) level is also set to No and disabled. In this scenario, negative inventory is not allowed for the item. In all other cases, the related data can be edited at the Warehouse-Item (whwmd2510m000) session level.

Also, resetting the Inventory Handling parameter for negative inventory has become more flexible, even if negative inventory records exist. In such cases, if this parameter is not enabled, new negative inventory records are not generated and the existing ones are nullified by the new receipts.

## Additional views on Warehouse Order (lines)

The Warehousing Orders (whinh2100m000) session now includes an 'Unfinished Orders Only' view, to exclude orders with the status, Cancelled, Shipped, and Put Away. , Therefore, by default, only the active, unfinished orders, or both, are displayed.

The Inbound Order Lines (whinh2110m000) session now includes an Unfinished Lines Only view, to exclude lines with the status Put Away. This is also applicable for the Outbound Order Lines (whinh2110m000) session, to exclude lines with the status, Shipped.

## Enhanced Interface for Warehouse Order Copy and Return

The user interface for copying warehouse orders and creating warehouse return orders has been improved. Two new sessions, Create Warehouse Return Order (whinh2209m000) and Copy Warehouse Order (whinh2208m000) have been created for this purpose, and are displayed when selecting the corresponding options. This allows the user to predefine the contents of the new (return) warehouse order, ensuring that the procedure is more intuitive and easier to use.

## Suppress information messages and questions

In the Delete/Archive Adjustment Order History (whinh5270m000) and Delete/Archive Cycle Counting Order History (whinh5250m000) sessions, the standard 'Delete Records without Archiving?' message, which is currently displayed when running these sessions, is suppressed for job-based processes. As, this caused problems, in case, a (night) job was set to 'interrupt' when a message or question is displayed during the process. Now, the job process is only halted when errors are detected.

## Deletion of warehousing orders with open or unfinished lines

When deleting warehouse orders with open/unfinished lines attached, the application generated three options:

- All: All headers with and without lines are deleted.
- Without Lines: Only headers without lines are deleted.
- Cancel: Allows for a cancellation/abortion of the deletion process (which not possible earlier).

## Interrupted Automatic Procedures filter

Currently, automatic procedures are applicable for the Inbound Line Status Overview (whinh2119m000) and Outbound Line Status Overview (whinh2129m000) sessions. However, the procedures that were interrupted and could not be completed are displayed at a detailed level (by order line).

To quickly obtain a list of interrupted order lines, which, for example, were interrupted because of a (temporary) inventory shortage causing the interruption of the automatic generation of the outbound advice, an Interrupted Automatic Procedures system filter has been implemented to filter out the lines for which the retriggering of the automatic process is required. This filter is applied to the multi-occurrence Inbound and Outbound Lines Status Overview sessions.

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## Shipping Handling Units

This section describes the enhancement for shipping handling units.

### Scan to Verify

To ensure that an Advance Shipment Notice (ASN) sent by a supplier (through EDI) describes the actual physical contents of a shipment correctly and completely, an optional verification process has been introduced for suppliers because possible mismatches between an ASN and the actual shipment sent can result in penalties from customers or worse.

'Scan to Verify' is a Handling Unit based scanning and confirmation procedure. Labels are attached to all the Handling Units of a shipment in the staging area. But before goods are loaded onto a vehicle, the new Scan-to-Verify process is executed. Consequently, all outer (visible) Handling Unit labels are scanned and a check is performed by the application, to verify if the scanned Handling Units, correspond to the Handling Units linked to the shipment. If yes and if the shipment is complete, the vehicle can be loaded, the shipment can be confirmed, and the ASN can be sent to the consignee.

This new option enables the matching of physically available Handling Units, on the staging zone, with the administrative Handling Units linked to the Shipment. This process can start after the shipment is frozen, and can now be modeled as a mandatory action to ensure that the shipment is not changed or updated during this verification process.

### Reuse of Inventory Packaging during Shipment

Currently, when picking handling unit structures (from inventory) to be shipped to the required destinations, repacking is always required, if a different structure, or package definition, or both is required for shipping. Consequently, new handling units are generated. However, if a company decides to register handling unit structures **in inventory**, based on industry standards, these structures do not deviate (much) from the handling unit or packaging structures used for shipping. Also, scenarios wherein items are, for example, packed and stored in boxes and shipped in containers on pallets are not uncommon. In such scenarios, the application is now able to detect the overlap in the packaging structure and avoid regeneration of new handling units or packaging structures during shipping. In practice, boxes in inventory are usually not taken apart or removed, but are placed on, for example, pallets or in a container to be shipped to the destination.

If a specific packaging structure is agreed upon with a customer and a specific package definition for shipping purposes is recorded on the sales contract, this can be a recurring issue.

Basically, two scenarios are identified:

- 1) The outbound advice contains handling unit-based inventory and the Package Definition of the picked handling units matches the Package Definition of the outbound order line. In this scenario, the shipment can be confirmed, but can result in the shipping of incomplete handling unit structures (such as loose boxes found in inventory without a pallet). Therefore, the application logic adds such boxes to an already existing pallet in the shipment. However, if a suitable parent handling unit cannot be located, the application adds the missing parts of the packaging structure or package definition required for

shipping. A new 'Auto Complete Handling Unit Structure during Picking' check box has been introduced in the Package Definition for this purpose.

- 2) The structure of a handling unit picked from inventory can deviate from the structure requested for shipping. In this scenario, the application checks for an overlap between the picked and the requested structures and attempts to reuse the existing (detail level) handling units from stock. If there is no overlap, the picked handling units are closed and replaced. If overlap is detected for a particular (packaging) level within the two handling unit structures, the related (detail level) handling units are delinked from the picked parent handling unit and reused in the new handling unit structure applied, when shipping.

## Fixed Asset Tag

Asset tags are designed to help with asset identification, control, and tracking of valuable assets. Some OEMs require to publish the asset tag (for example. a returnable pallet serial number) in the ASN.

A new attribute **Asset Tag** on the Handling Unit entity allows the user to save and publish the required information.

## Shipment Freeze/Confirm

To perform export compliance checks in Warehousing, Global Trade Compliance must be implemented and the relevant items must be defined as being subject to trade compliance. If this setup is implemented, export compliance checks are performed when shipment lines are frozen and/or confirmed. To trigger an export compliance check for a shipment line, the ship-from and ship-to addresses of the shipment line must be in different countries. New trade compliance statuses have been introduced to indicate whether shipments and shipment lines comply with applicable export conditions. When a shipment fails the Export Compliance check, the shipment is blocked. A user can reopen the shipment and fix the information, if required, and the freeze (when freeze is a mandatory step in the Warehouse Order Type) the shipment. See Global Trade Compliance.

## Item, Lot and Serial 360 View

In earlier releases, there was no specific functionality that allowed users to easily perform a "where used" or "where supplied" type of track and trace function for an item and/or lot number and/or serial number combination. This type of function must be performed for either a single level or a multiple level bill of material item for the purposes of, for example; quality control, service management, warranty management, theft deterrence, and product recalls (potential and actual).

The new Item/Lot/Serial 360 View session allows users to perform two specific functions:

- 1) To display a list of transactions relating to pre-defined business objects linked to an item, lot and/or serial number combination across an individual logistics company. Each listed

transaction/business object combination can then be “opened” to access the supporting details.

- 2) The ability to perform a track and trace of “where used” and “where supplied” types of inquiries in an individual LN logistics company, based on the selected item, lot and/or serial number combination. Each listed transaction can then be “opened” to access supporting detail.

## Rewrap Handling Units in Inventory

A new functionality for modifying the packaging structure of handling units ***in stock*** is now available from the Handling Units session. This new ‘Rewrap Handling Unit’ feature allows for quick and easy repackaging of handling units in inventory, by attaching a different package definition and/or modifying other characteristics. Previously, similar functionality was only available when receiving or issuing handling units and not for ‘static’ handling units in inventory.

## Business Partner Packaging Item Codes

It is common practice in the US to use a combination of Packaging Form and Packaging Material to classify a packaging item, for example, 3 digits Packaging Form (Box, Pallet, Carton, etc.) + 2 digits Packaging Material (wood, steel, aluminum, etc.). Accordingly a small steel box and a large steel box would have the same BOX91 classification.

Business Partner Item Codes for Items and Packaging Items are maintained in the Item Codes by Item Code System entity. In this session, you cannot use the same Business Partner Item Code for two different LN items.

For Packaging Items this restriction has been eliminated by introducing a new Business Partner Packaging Item Codes (whwmd4506m000) session.

It is now possible to define the same Business Partner Item Code for several LN Packaging Items. Accordingly, the LN Packaging Items Small Steel Box and Large Steel Box can both be mapped to the Business Partner Packaging Item Code, BOX91.

## Shipment Handling Unit Masks

OEMs request from their suppliers to apply a certain format for Serial Numbers of shipping containers.

To achieve that Shipment Handling Unit Masks can now be defined for the Sold-to Business Partner and on the Ship-to Business Partner level.

## Label Printing

Lineside labeling is an initiative to reduce mislabeling by applying container labels at the point of manufacture rather than the shipping dock. Infor LN offers label printing, for example, at the end of production. By using Demand Pegging (type Customer), it is now possible to print the Business Partner Item Code and Revision on the container labels.

## Warehouse Receipts Workbench

To efficiently manage the daily operational process of receiving goods in a warehouse, originating from all external and internal sources, like suppliers, subcontractors, production lines, other warehouses, a Receipts Workbench is developed. This workbench allows a user (receiving clerk) to handle the majority of deviations from the happy path, such as the generation of lot codes, serial numbers and handling unit ID's as well as exceptions like overdue receipts, partial receipts, unexpected receipts, inspection, damaged goods, wrong contents, which occur regularly. Besides, more exceptional actions and corrections now lie within reach of the workbench operator, but are less visible and require limited navigation.

The workbench has a clean and simple interface and first of all shows expected receipts (inbound order lines), alerts the user by indicating which receipts need quick attendance or extra attention and detects delays, shortages and other irregularities.

The workload is expressed in numbers as well as in the form of a graph. Through buttons (filters) based on status or due date, a user can produce the required list of expected goods receipts in the grid. Other overviews and reports supporting the day-to-day receiving operations are available as well.

Detailed information regarding inbound orders and receipts, such as item data, lot/serial information, handling units, etc. can be accessed by drilling down.

Finally, the relatively simple activity of (initial/superficial) inspection after receipt is supported and a decision to Approve, Reject or Scrap the received goods is facilitated.

## Warehouse Inspections Workbench

This workbench allows a user (goods inspector) to handle all warehouse inspections registered in the LN system, which may be required when receiving or issuing goods from a warehouse. It is a clean and simple interface. Initially, the workbench displays all the unfinished inspection records and alerts the user by indicating which inspections require attention and detects delays.

The workload is expressed in numbers also displayed in a graph. Using the options (filters), based on status, due date, or the inbound/outbound origin, a user can produce the required list of outstanding inspections in the editable grid, where the inspection results can be recorded. Other overviews and reports supporting the day-to-day inspection operations are also available. Detailed information regarding inspections can be accessed by accessing the details section.

## Quarantine Inventory Workbench

This workbench supports the handling of quarantine inventory. It is a useful disposition tool that can be used, for example, by a material review board or other qualified personnel responsible for deciding whether to return, rework, scrap, reclassify, or accept items that are moved to a quarantine area after receipt, during production or during staging. The workbench initially displays all the unfinished quarantine inventory records and alerts the user by indicating which quarantine records require attendance.

The workload is expressed in numbers and also displays a graph. Using the options (filters), based on the status, the due date, or the inbound / outbound origin, a user can obtain the required list of outstanding dispositions in the editable grid, where the results/decisions can be recorded. Other overviews and reports supporting the day-to-day quarantine/disposition operations are also available. Detailed information regarding quarantine can be accessed using the details section.

## Loads

This section describes the enhancement for loads.

To meet, for example North American EDI requirements, a couple of new attributes have been added to the Load. This information is populated on Shipping Documents and in the Advanced Ship Notice (ASN). Details of these attributes are described in the following sections.

### Transport Categories

The Transport Category which is linked to the carrier master data has been extended by several values such as Less than Truck Load, Intermodal, or Milk Run. The Transport Category can also be changed directly on the Load level.

### Tracking Numbers

To allow customers to enter additional tracking numbers than the 2 already available on the warehousing load, 2 new additional tracking numbers are added to the warehousing load and the freight load. Up to four Tracking Numbers and Tracking Number types can now be entered to identify the Load. Typical Tracking Number types are PRO Number, Seal Number, or License Plate (Trailer) Number.

### Authorized Excess Transportation Cost

Suppliers may be required to request for an Authorized Excess Transportation Cost (AETC) number when the freight costs exceed the contractual terms. The AETC authorization is requested during generation of the shipper's details.

If an AETC number is requested, the shipper details cannot be published until the cost is approved and the customer assigns an AETC number to the shipment.

Apart from the AETC number, the supplier also has to send a reason code and a responsibility code in the ASN.

Excess Transportation Reason and Responsibility Codes fields have been added to the Load to cover this requirement.

## Transit Point

Deliveries are not always shipped directly to the final customer. It can happen that goods are repacked or composed at a Pool Point, Distribution Center, or Intermediate Consignee before the goods are shipped to the final destination.

In these cases, an additional address and address code must be printed on shipping document. A new attribute Transit Point is now available on Load level (defaulted from the Ship-to Business Partner) which allows the creation of an Intermediate Consignee.

## Auxiliary Packaging

The functionality of auxiliary packaging within packaging definitions (structures) has been revised to create a more realistic, intuitive, and flexible setup process. Currently, the use of auxiliary packaging quantities is modeled based on the packaging item quantity specified in the Handling Unit Template. This made it hard to support a situation in which a handling unit is generated for only a part of the complete Handling Unit template Quantity.

Modeling the use of auxiliary packaging material is now possible, based on the contents of a handling unit or on the amount of lower-level (child node) packaging items used. Furthermore, an offset quantity can be applied and a flag to indicate that auxiliary material is only used for full quantities is added.

## Partial Allocation of Handling Units

It is possible to allocate (for example, using an outbound advice) a partial quantity from a (bottom level) handling unit. This also means that modifying the item quantity on an outbound advice involving a specific (bottom level) handling unit ID is possible. An outbound quantity which is less than the total handling unit quantity, implying that only part of the HU must be picked from stock and staged, results in a 'Partially Allocated' handling unit, as part of the total item quantity that is assigned the status, Location Allocated and the other part is unallocated. The release of the outbound advice simultaneously executes an automatic split of the underlying structure of the selected handling unit.

## Cross Docking and Handling Units

Complicated scenarios where handling units are received and only partially cross docked can now be handled more efficiently. Cross docking complete handling units is recommended, but in case the handling unit quantity is greater than the quantity to be cross docked, the latter is split from the received handling unit and cross docked without a (new) handling unit ID attached. The remaining quantity retains the original handling ID and is stored in the inventory.

## Warehouse 360 Hot Spots Graph

The Warehouse 360 dashboard session has been updated to display a graph that indicates the most used (or least used) locations in warehouses. The graph provide information on which locations can be used more efficiently or, more importantly, where a potential risk of congestion exists. In short, the main purpose of the graph is to view/monitor inventory transactions by

warehouse location, to obtain a clear picture of the physical flow of goods in a warehouse, detect 'hot spots' (frequently visited locations), locate empty / unused locations and determine if inventory is stored in the right locations.

## Fine-Tuning Demand Pegging

Two new parameters (will be) added to the Inventory Handling Parameter session to ensure that demand pegging functionality is more flexible:

1) Advise Unallocated Inventory (y/n)

If this check box is selected, the system automatically selects or advises inventory without any specification attached (unallocated), in case the required demand peg is not sufficiently available.

2) Demand Peg of Outbound Line is Binding (y/n)

If set to 'Yes', the system ensures that the exact same specification, as recorded on the originating outbound line, is used during the shipping of goods with. If set to 'No', the system can automatically pick the unallocated stock (if the first parameter is active) or the user can manually decide to pick stock with a different specification attached.

## Allocation Change by Handling Unit

If the Demand Pegging functionality is implemented, it is now possible to change allocations (demand pegs) from a particular handling unit using a new option in from 'Action' menu. Previously, this was only possible on the order (line) basis using the Inventory Change Orders option from the main menu.

## Reference to Outbound Advice

A link to the outbound advice has been added in the References menu of the Outbound Line Status overview session.

# Chapter 6 Manufacturing

6

This chapter describes the enhancements to Manufacturing.

## Job Shop

The Shop Floor Control module has been renamed to Job Shop and the Manufacturing menu has been reorganized. The objective of this change is (not yet introduced) inclusion of the new Repetitive module and to have a more functional focus on the different production methods (assembly, repetitive, or job shop). All menu entries for the required master data are moved to the menu of the applicable production method. The parameter sessions are also moved.

## Repetitive Manufacturing

This section describes the enhancement for repetitive manufacturing.

### Introduction

A new solution to support repetitive manufacturing is introduced. To accommodate repetitive manufacturing, the existing functionality has been changed and new functionality has been added:

- The mapping of the shop floor lay-out is extended. The production department is introduced and the work cell types are changed and the functionality has been extended to accommodate for work cells and repair cells.
- The default and actual item supply source functionality is extended.
- The production model is introduced to record all master data required to define the production of an item in a work cell.
- Production schedules are introduced for the planning and control of the production of the item.
  - New sessions are introduced to support the shop floor planner, the machine operator, and the shift leader.
  - Work cell costing is introduced.

## Job Shop Schedules

To distinguish between the old solution for repetitive manufacturing and the new solution, the old solution has been renamed to “job shop schedules”, and in the new solution the concept of “production schedules” is used.

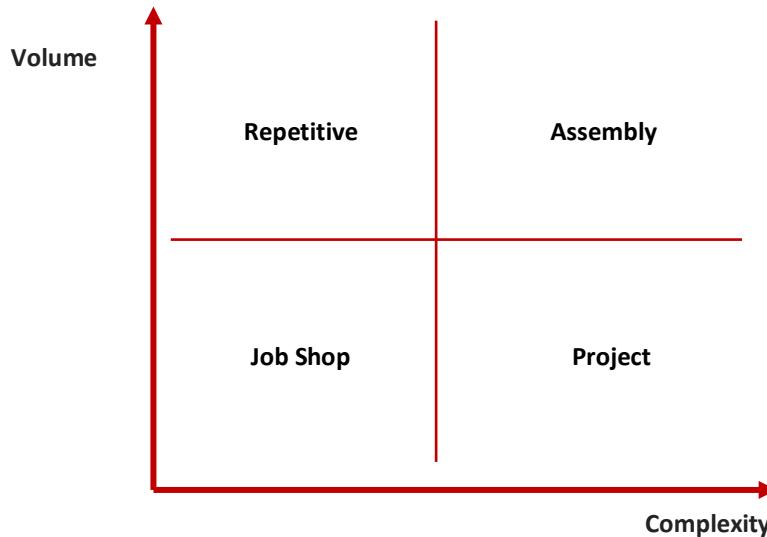
The old repetitive manufacturing functionality and the new functionality are mutually exclusive. This is controlled by a parameter in the Repetitive Manufacturing parameters.

## Definition Repetitive Manufacturing

Many definitions of repetitive manufacturing can be found in the literature. One of the most commonly used is:

*Repetitive manufacturing is the rate based production of similar products in high volume and high throughput on dedicated production lines*

Repetitive manufacturing is a form of mass production that relies on manufacturing high numbers of identical units in a continuous flow. This type of manufacturing is suited for a number of applications and is widely used. The concept of repetitive manufacturing dates back to the time of the start of mass car production. It was introduced to increase the efficiency of production and the deployment of unskilled labor, therefore, lowering manufacturing cost and increasing output.



Although the concept of repetitive manufacturing is not new, it is still being enhanced, thriving on the implementation of Lean Manufacturing initiatives to remove “muda” (waste). These initiatives are not limited to the manufacturing process alone, but also take into consideration the administrative processes of planning & control and logistics.

## Production Department

To enhance the mapping of the shop lay-out, the Production Department entity is introduced.

The production department is a first step to enable the mapping of the commonly used hierarchy “site, building, work center, machine”.

The production department groups work centers, work cells, and repair cells.

A calendar can be linked to the production department. If a calendar is not defined for a work center, the calendar from the applicable production department is used.

## Work Cell

For the repetitive solution, a new work center type, Work Cell is introduced:

A work cell is a group of work stations in a fixed sequence. A work station can be a machine, a workbench, an inspection point and so on.

A work cell is designed for the dedicated production of an item or a group of items.

In a work cell, multiple points-of-usage can be defined. A point-of-usage is a shop floor warehouse linked to a work station. If a work cell has multiple work stations, the work cell can also have multiple points-of-usage.

## Item Supply Source

A new item supply source: “repetitive” is introduced:

Infor LN now offers three planning and control concepts for the production of a manufactured item: job shop, repetitive, and assembly. The concepts are distinguished by the “Default Supply Source” item parameter.

For an item with the default source “Repetitive”, some LN features are not supported:

- Configurable option and Unit Effectivity are disabled.
- Demand Pegging and Project Pegging are disabled.
- Order System must be “Planned”.
- Project Control (PCS) is disabled.

Due to these restrictions, it is possible to switch the default supply source between “Job Shop” and “Repetitive”.

Also, the actual supply source has been extended. It is now possible to define the actual supply source for a defined time period as “repetitive”, “job shop”, “subcontract”, or “purchase”.

To make this unambiguous and consistent for the user, the current set up for the supply source has been simplified:

- The (default) supply source functionality is extended with “repetitive”
- The (default) supply source functionality is extended with “subcontract”
- The “subcontract” check box is deleted.

## Production Model

To support repetitive manufacturing, the Production Model is introduced.

A production model contains all the master data required to define the planning and production of an item in a specific work cell. It is possible to define multiple models for each item, even in combination with the same work cell.

A production model is always revision controlled. Before a new model can be used in production, the model must be activated. When activated, a new revision is created. To change a model a copy is made with a new revision and the status, Inactive.

This data is defined in the production model:

- The production rate (takt)
- How the item is planned
- How it is scheduled
- How it is produced
- How it is reported
- The required materials and their supply to the cell
- The required labor resources
- The required tools

## Production Schedules

To control production in a repetitive manufacturing environment, the new repetitive solution uses production schedules instead of production orders.

## Production Scheduler

To support scheduling in repetitive manufacturing, a new scheduler is introduced.

The Production Scheduler can be run as a standalone process or triggered by Enterprise Planning.

Within the production schedule horizon, Enterprise Planning creates production schedule lines. EP plans infinite backward.

The next step is to plan the production schedules finite forward based on the start date of the run. This step is always executed when the scheduler is run.

If some of the schedule lines have a planned finished date that can result in a delay in the supply, the plan can be optimized. These settings are possible:

- Move & Swap Runs: For a work cell, the order of the run is changed if this reduces the overall delay.
- Offload runs: If the item can be produced in another work cell, it is possible to offload runs to an alternative work cell. This is always done in combination with Move & Swap runs.

## Work Cell Planning

The work cell planning session supports the shop floor planners in their daily work. The session provides an overview of the work planned for the cell. It is possible to reschedule or manually change the sequence of the schedule lines. Next, the schedule lines can be released.

## Work List

The work list session supports machine operators in their daily work. The session provides an overview of the work for the current shift. The operator can report the work cell hours using the Set-up, Start, Stop, and Breakdown options. Next, the competed and rejected quantities can be reported by the operators.

## Report Shift

The report shift session supports the shop floor supervisors in reporting the production results of the shift. If necessary, by adjusting the reported quantities. They can handle the rejected quantities by scrapping them, moving them to quarantine, or moving them for repair. Next, supervisors can adjust the registered work cell and labor hours and report the shift complete.

## Work Cell Costs Documents

In repetitive manufacturing, the cost are not booked to production orders but to work cell cost documents.

A work cell cost document collects all costs made, in a defined time period, in a work cell.

## Optional features in Repetitive Manufacturing

The basic Repetitive Manufacturing process can be extended with these features.

### Repair process

Apart from the scrapping the rejected product or sending the rejected product to the quarantine inventory, it is also possible to define a repair cell where the rejected product can be repaired.

### Process inspections

It is possible to define inspection protocols and report the results.

### Multi-product production

Injection moulding and stamping are production processes often used in a repetitive environment. Typically for this production processes a mould or a die is used that produces multiple products in one cycle. This can be multiples of the same item or different items.

It is now possible to define a multi-product production model. The progress reporting is done in the cycles for the tool, resulting in automatic reporting that all the products that are listed in the production model are complete.

### **Production lines**

Sometimes the manufacturing of an (stock keeping) product requires more than one work cell. For this scenario, it is possible to extend the production model to support a line production process and a convergent production process where the produced items are directly transferred to the next cell where it is used as a material.

### **Serialized and lot controlled items**

The handling of serialized and lot controlled items is also supported.



This chapter describes the enhancements to Project.

## Bid Management

This section describes the enhancement for bid management.

Bids can be a key factor when interacting with potential customers for creation of contractual agreements.

### Bid Workbench

A Bid Workbench has been introduced. It allows for filtering on:

- Sales Office
- External and/or Internal Sales Representative
- Status
- Expiry date (range)

The workbench is status based and also based on the expiry date of a bid. The graph for a selected bid shows profitability in percentage or amount.

### Activities, notes and additional information

Activities and notes can be added to the bid. In addition, it does include the possibility to add specific bid information via additional information definition.

### Bid structure

It is now possible to visualize the bid structure

### Bid comparison

Two bids of bids of the same project and estimate version can be compared.

## Bid report

The print session functionality has been extended to include business partner and sales office options.

## Bid and Contract

The outcome of an accepted bid could be that a contract or a contract line must be created. Therefore, an option to create a contract or contract line, based on the bid has been added.

## Addresses

The zoom option to select an address on contracts and bids has been extended. An option to search for all addresses and addresses by Business Partner (BP) is now available.

**Note:** The address is defaulted based on the BP. The zoom option is only required, if the default address must be changed.

## Contract Management

This section describes the enhancement for contract management.

### Contract Series

The application allows for (default) contract series to be used as part of the Project User Profile. This helps to differentiate between contracts, for example, if series are used to differentiate the type of business or region.

### Contract Deliverable

#### Invoicing

The application facilitates deliverable or installment based invoicing, based on the activity or milestone that must be reached. To better support this functionality, a session to check whether deliverables are shipped has been introduced. If shipped, the activity or milestone status can be changed.

**Note:** The functionality is part of contract deliverable options.

#### Monitor

The Contract Deliverable Monitor functionality has been extended. The Planned Delivery Date / Item is now an option to combine filters. Also, a graphical visualization of the workload has been added.

## Quality Management

In Quality Management, the Project Contract origin has been introduced. This can be used for Contract Deliverables. Contract (line) specific testing combinations can also be defined. An option for order specific inspections is available. Nonconformance reporting and dispositioning can also be used.

## Global Trade Compliance

If Global Trade Compliance is implemented and the item is identified as Subject to Trade Compliance during activation of a contract deliverable export compliance check is executed. A user can execute the Export Compliance check prior to activation as well. There is a new status on the Contract Deliverable as well Trade Compliance Status for keeping track of the status. See Global Trade Compliance for more on setup and process.

## Additional Fields

Several options have been added at the contract level. These options were already available for the contract line:

- Classification fields such as Line of Business, Category, and Area
- Modified by and Last Modified on
- Last Change Reason

## Contract Flow-down

The Contract Clauses Flow Down functionality is implemented in Projects to capture necessary contract related information and it enables the flow down of this information throughout the organization and to suppliers. When creating or generating the Planned PRP purchase order / Planned PRP Warehouse order, Infor LN defaults the Additional Information fields from the Contract Line, linked to the project peg of the planned order. There is more information on the impact in Procurement.

## Address Fields

The Invoice-to and Pay-by Address fields are still accessible if the status of the contract and contract line is Active.

## Project Management

This section describes the enhancement for project management.

## Project Hours

If project hours are entered in People, the user must have detailed time control in Project and detailed invoicing as part of Cost Reimbursement or Time & Materials contracts. For this functionality, a new Progress Parameter has been introduced that determines whether to create one cost transaction in Project for one line in People or to create a cost transaction for each calendar day.

**Note:** Even without the new detailed invoicing parameter for, sometimes transactions are split. For example, because of text linked to a specific day or a (financial) period split in a week.

## Trade Group

The maximum code length has been extended from 3 to 6 characters. This is to allow for flexibility in the employee/trade group setup. This change impacts the setup and the usage of the trade groups in the activity budget lines.

## Baseline

To allow more flexibility on the usage of baselines:

- An option to add a baseline to the project procedure has been introduced.
- The maximum code length has been extended from three to four numbers.
- The data of the user that last modified the baseline is captured.
- The project manager and planner have better visibility on the progress of the project, based on the ability to display Scheduled and Actual Dates, in addition to the Baseline Dates.

## Item Replacement

A replacement item is an item that replaces another item that is no longer sold. A replaced item can have only one replacement item. In LN Project when you enter an item in multiple locations, a message is displayed that a replacement for the item exists and whether the item must be replaced with the substitute item.

**Note:** This option was already used in several other LN domains but has been included for LN Project in this release.

## Tasks

For consistency with other domains in Infor LN the labor cost objects have been renamed to Tasks. The cost type as such is retained as Labor.

## Project History

A new parameter has been introduced that enables the user to start building history of the project itself. Relevant changes to the project results in history records much as was already possible for contracts. Budget history data has been made available for display in relevant sessions.

## Estimating

An option has been introduced to create estimating lines based on the actual cost of a project.

An option to compare bids of the same project and estimate version has been added. The print selection functionality has been extended to include the business partner and sales office options.

## Budgeting

Landed cost fields have been made available in the overview sessions for material and equipment element budget. The information available in the Budget History sessions has been enhanced to provide more information.

## Skills

Skills functionality has been introduced estimating lines and labor activity budget lines using which relevant skills or competencies can be captured. Default skills can be set for the tasks, the labor cost objects. The use of skills is optional but has a relevance for one the Resource Management functionality, which is designed to help to find the most suitable resource capable of doing a specific job.

## External Scheduling Interface

The existing overview session functionality has been extended with an option to view the details of the established link. The resource information exchanged with external scheduling packages also includes the employee code for easy reference.

## Project Schedule

An option is provided to visualize the project schedule of a project or multiple projects based on an activity selection in a Gantt chart. The activity relationships are displayed. The options enable you to also view the budget lines. It is important to understand that this is about visualization only: no scheduling algorithm is being used. Activity dates have to be set manually, by dragging on the project schedule or by using the external scheduling package. The activity and milestone sessions can be started from the project schedule and the project schedule can be started from key project and activity sessions. To avoid having to open an activity or milestone a tooltip displays some key information of the selected bar.

## Forecasting Overhead

Forecasting of overhead has been made possible to have a more complete Estimate at Completion, while:

- Calculating the Percent of Completion
- Calculating Interim Results as part of the Revenue Recognition process for the Percentage of Completion method

The new forecasting session and option to include in Global Approving have been introduced. The overhead forecast is also made available to LN Analytics.

Note: the forecast of overhead will have to be calculated outside of LN, it is not possible to budget the forecast or calculate it based on the existing overhead framework

## Resource Management

As mentioned in Chapter 2, a new framework was introduced to handle resource assignments for Project, Service and Quality Management. For more details check the corresponding chapter in this document. Project did not provide for planning of employees for work to be completed. Now, the Resource Planning option, as part of Resource Management provides a suitable framework for employee planning. Project has been included in this framework, to facilitate employee planning.

Key aspects of resource management using resource planning:

- Resources are suggested based on attribute(s), skills and availability.
  - It is optional to use one of these options or a combination.
  - Infor LN checks the group requirements.
  - This is matched with resources attributes and the available skills.
- Resources are allocated at the group level.
- Infor LN can propose and allocate resources completely.
- The user can manually change the number of required skills or required matching attributes.
  - The result will be a larger list of matching resources
- Supporting options:
  - Requirements by group and the resulting resources
  - Proposed resources with matching skills and attributes.

## Authorization and Security

All relevant Project sessions can be checked for the relevant authorizations, by the application, based on the authorization and security setup for Project. Contract authorization can also be defined to determine the users authorized to view or work with contracts. The setup is based on contracts, and not contract lines.

Note: For some sessions, data authorization checks are not applicable as these sessions are assumed to be specific to data administrators. The archiving of projects is an example of this.

## Planned PRP Purchase Orders

An option has been introduced to check prices and rates, if the BP is added or changed on a line. The source or origin of the price or rate and discount is also displayed.

## Update vs. Simulate

For several sessions, the application now includes an option that helps the user select Update vs. Simulate, when considering changes. The relevant sessions:

- Generate Structural Elements (tpest1220m000)
- Update Prices and Rates in Estimate (tpest2203m000)
- Update Project Status (tppdm6202m000)
- Update Work Authorization Status (tppss2205m000)
- Calculate Interim Result Defaults (tpppc4205m000)

The report indicates whether the Simulate option is used.

## Close Project

A list of issues is now generated, issues that must be resolved before being able to close a project.

## Delete Budget Lines

A new option to delete budget lines has been introduced, for example, if lines are created in error or changes in the estimation process require a restart. The Delete Budget session enables the selection of a range of projects, elements/activities, and cost type.

## Pegging on PRP Warehouse Order

As part of the project item setup, project item (group) option has been introduced that determines if, by default, a PRP Warehouse Order must be pegged. On a specific PRP Warehouse Order, the default can be changed and a different setting can be used.

**Note:** Mandatory pegged items must be pegged and are displayed as part of project item setup.

## Project Requirements Planning (PRP)

Sometimes, based on the item setup or stock, items that must be handled using either Procurement or Warehousing are planned as PRP Warehouse Order or PRP Purchase Order. To allow for better control the project order system options, PRP and Manual have been extended with the PRP Purchase Order and PRP Warehouse Order options.

If one of these options is selected, in PRP, the corresponding settings are used. The PRP generation process is not required to create PRP Purchase or Warehouse Order. Instead, the item setting is used.

**Note:** It is still possible to copy a PRP Purchase Order to a PRP Warehouse Order or vice-versa.

## Warehousing

If Warehousing is not implemented, the priority warehouse on a project is no longer mandatory. This can be relevant for engineering and consultancy companies that do not require warehouses.

This chapter describes the enhancements to Service.

## Workflow on Customer Claims

Customer Claims can be approved (or rejected) using the ION Workflow.

## Part Maintenance Workbench

A new workbench is available for the Part Maintenance line procedure of a maintenance sales order. Using this new workbench the user can identify:

- The next steps is to be executed.
- The linked work orders.
- The costs for each cost type of all the linked work orders (graph).

## Work Order Activity Workbench

A new workbench is available for the work order activities. Using this workbench the user can identify:

- The next steps to be executed for each activity.
- The costs for each cost type (graph).

## Preventive Maintenance

These (small) enhancements have been provided for Preventive Maintenance:

- Where Used Reference Activity field in the Maintenance Scenarios (tsscp1130m000) session.
- Where Used Master Routing field in the Maintenance Scenarios (tsscp1130m000) session.
- Reference Activity is now displayed for a Time Based Pattern scenario line.
- Explicit relation between the Maintenance Scenario and a Serialized Item can be created.

## Preventive Maintenance – Planned Activities

When transferring Planned Activities to Service Orders, the planned activities can now be grouped by Installation Group. The result in one Service Order for each Installation Group.

## Reference Activities

Resource requirements can already be defined for a Reference Activity. It is now also possible to define the outgoing subassemblies at the Reference Activity level. This is only possible, if the Reference Activity is defined for a specific item.

## Serialized Item

The value of the Actual Location of a Serialized Item was not always accurate. Therefore, this process has been optimized and the Actual Location Type, Warehouse-Available and Warehouse-In Use are deleted and merged with the existing type, Warehouse. A new type, Location is added. This new type is used when the Warehouse procedure for a Part Maintenance Line is not used.

## Improved user interface

The user interface of these sessions has been changed to a header-line format, which allows the user to navigate through relevant business object information in a single screen:

- Service Contract
- Installation Group
- Service Contract Quotation
- Service Contract Template
- Warranty Template
- Generic Warranty

## Estimated Costs

For Service Order Activities and Work Order Activities, a better insight of the estimated costs is provided. Before the activity is released the user can view how the estimated costs are divided between, for example, Warrant, Contract Coverage and so on. Before the activity is released the costs are estimated costs; after the activity is released costs are considered to be actual costs.

# Chapter 9 Financials

9

This chapter describes the enhancements to Financials.

## Segment Reporting and Self balancing journals

When using the segment reporting concept, all journals posted to the General Ledger must be self-balancing for the segments indicated as Segment Reporting Dimensions. This means that every journal processed manually or through the integration transactions always balanced automatically, for these segments.

This ability ensures that in every journal posted to the General Ledger, the total segmented debits are always equal to the total segmented credits (so, every journal entry will have a zero balance at the segment level), which consequently implies that a separate, self-balancing, and accurate trial balance can be populated from a segment ledger.

By delivering the self-balancing functionality for our segment reporting solution, reporting by segments becomes error proof. Imbalances from the perspective of a particular segment result in additional, automatically generated clearing lines of an inter-segment clearing account. A balance for a specific segment, of this inter segment GL-account represents the claim or debt that a specific segment has on all other segments, which is essential information to display an accurate view on the performance of the segment.

## Electronic Bank Statements and Partial Posting of bank statement lines

Using the Electronic Bank Statement solution, it was only possible to post a bank statement and update the open entry balances of the AR invoices, for all individual bank statement lines of the invoice with the status Fully Matched. This limitation has been changed because AR-invoices, related to the fully matched individual bank statement lines, must logically always end in an accurate and adjusted open entry display of the customer, even if the other lines of the bank statement are not yet fully matched.

## Consecutive Numbering (Gapless numbering)

In some countries (such as China) it is a legal requirement to report financial documents by gapless or consecutive numbers. These numbers which can be monthly or yearly. As our solution until now was fixed (numbering per year and sorting by transaction entry date), our protocol for numbering had to be extended to meet several other local requirements. Therefore, the Protocol Settings by Financial Company session is added to set up gapless

protocol numbering, as required. The Protocol Reference field is now added on several display sessions and reports, the Document History (by Protocol Number)-and Print Finalized Transaction – Flexible Reporting sessions are also added, which include some localized Bilingual Ledger reports.

## Format Tax Data Extraction and Reporting

Modifications have been made to the Tax Data Extraction and Reporting session, to enable the end user to define the format of amounts and dates of the csv output file. This enhancement makes it easier for the end user to further process the csv output file.

## BOD Import Journals

Importing journal vouchers through business object documents (BODs) is only possible by dedicated users and depends on the batch access mode. If a dedicated user is not defined, it was not possible to modify the batch, resulting in inefficient situations. Therefore, the functionality in this area is extended so that external journal batches can now be modified based on the 'Authorized User' in the company parameters and the access mode of the batch:

- 1 If the Authorized User for External Batches is not specified and the Access Mode of the Batch is All Users, then all users must be able to maintain the external batch.
- 2 If the Authorized User for External Batches is not specified and the Access Mode of the Batch is Individual User, no one can maintain the external batch.
- 3 If the Authorized User for External Batches is specified and the Access Mode of the Batch is Individual user or All User. Only the authorized user can maintain the external batch.

## SEPA and Hash codes

Processing SEPA files was only possible by calculating a hash code, according to the SHA-1 algorithm, and subsequently printed on the SEPA specification reports 69 and 70. As it is required to support other hash-code algorithms, such as SHA-256 and MD5, the functionality to ensure that hash codes can be calculated flexibly has been extended.

## Direct linking credit note to invoice with schedules

Automatic linking of a replacement credit note with invoices was not supported. To facilitate an automatic 'Replace Invoice'/'rebillng' process in Invoicing (SLI), it is now possible to directly link an invoice with schedules, to a credit note with the same schedules.

## Bad Debt Relief

When a customer takes a long time to pay for a debt, or doesn't pay the debt at all, it is considered a bad debt. And, it is a bigger loss if the company already paid the VAT due on the sale to the tax authorities. In the elementary form, a business will charge VAT ('output tax') on its sales, but will be entitled to deduct the VAT ('input tax') that it has paid on its costs and purchases. Output tax is the term used for the VAT that is charged by the supplier. The supplier's output tax is the buyer's input tax. In many countries, output tax on bad debts can be claimed back and the input tax, not paid within a certain timespan on Payables, has to be paid back. In many countries, companies can get the VAT back if the debt goes completely bad. VAT due on sales is usually accounted for on the return covering the date of issue of the sales invoice. If a customer fails to pay, it is a loss for the company. However, at least in many countries companies can claim back the related VAT paid on certain conditions.

When handling VAT corrections, companies are under specific conditions, which differ by country, allowed/required by the tax authorities to:

- Claim back output tax on bad debts (*AR Bad Debt Relief*);
- Make input tax adjustments in case they did not pay their suppliers within a specific timeframe (*AP Bad Debt Relief*);

For this business requirement, functionality is added to LN to be able to claim tax from tax authorities.

In general VAT can be reclaimed on an unpaid sales invoice if the VAT has been included on an earlier VAT return, the age of the debt in question is within a specific time period, or if the customer is bankrupt and so on. Assuming the conditions are met, the VAT originally paid can be claimed back. The VAT which can be claimed is the amount charged on the original sales invoice.

The bad debt relief rules work both ways. So if VAT (input tax) has been reclaimed on a purchase invoice which age is within a specific time period, the VAT claimed on this invoice has to be repaid with the next return.

New sessions are added to support the Bad Debt Relief process.

## Taxonomy

The ability to classify of Charts of Accounts and Integration with LN Analytics to support IFRS, US-GAAP & localized statutory reporting requirements has been added. Reporting according to taxonomies requires a classification or mapping of the Chart of Accounts in LN, which is:

- A facility to upload or create a number of applicable taxonomies in LN, accompanied by a mechanism to easily map/classify the GL accounts in LN with these taxonomies, has been added to fulfil the requirement. Rules are available in order to ensure the accuracy of the classification.

- After the necessary classifications are set up (accurate and complete), it is now possible that financial information in LN, is published using the concerning *BOD*<sup>1</sup> and in several *standard LN reports* and *FST*<sup>2</sup> *reports* based on these different taxonomies.

## Credit Collector Workbench

To manage outstanding amounts efficiently, properly, and adequately the user was required to switch between many sessions to get a complete overview and to control outstanding amounts, dunning information and all related activities, action dates, and notes. This information is required for decision making and to initiate the appropriate follow-up.

With the addition of the Credit Collector Workbench, all relevant functions are now concentrated in one multi main table session, which improves the efficiency of credit collectors for open amounts.

## Subcontracting within Finance (Dutch law: “Wet Ketenaansprakelijkheid”)

According to the Dutch law, if a subcontractor does not pay income tax and/or social security premiums, the contractor can be held responsible. If a chain of contractors is formed, each contractor is responsible for all child chains. Contractors can pay a percentage of the invoice amount to the blocked bank account of the subcontractor (or directly to the Tax Authority and the Industrial Assurance Board).

The subcontractor can only use this blocked bank account to pay income tax, social security or other blocked accounts (in case of a chain of subcontractors). If a subcontractor goes bankrupt, the contractor has to demonstrate that sufficient money has been paid to blocked accounts (or directly to the Tax Authority and the Industrial Assurance Board) to cover for the income tax due and social security premiums.

When the Dutch government first announced that this law would be discontinued, it was decided to discontinue the support of this functionality in LN. Customers were advised to use the existing tax functionality as a temporary solution. However, the Dutch government revised their decision and decided not to discontinue this law, so the functionality to properly support this law in LN is required again. This meant, re-introducing the ‘subcontracting’ parameter in the Accounts Payables parameters session and the proper support of Segment Reporting.

## Bank statement BOD

Additional fields are added to the EBS tables to enable the storage of extra bank statement information, imported using a BOD (generated by “IEC Runtime for Infor locally”; previously

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<sup>1</sup> Business Object Document

<sup>2</sup> Financial Statement Generator

called MEC and GEMS). This information is used to match the individual bank statement lines against the respective open entries which results in less manual work for the end user and an improved automatic matching score is also introduced.

## Localizations and legal requirements

### Malaysia

Ability to create the GST Audit File (GAF) added to Infor LN. The GAF-file is a specific audit file for tax authority (Legal requirement in Malaysia).

### Italy

- Blacklist Reporting  
Include tax transactions with blacklisted countries in the existing whitelist tax declaration (Spesometro);
- 'Split Payment' functionality added for Italy, handled using the sales shifted tax.

### Germany

To meet the tax declaration requirements, Germany specific functionality is added to ensure that tax declaration is based on official rates (determined by the local authorities), for invoices in foreign currencies. Therefore, the Declarant Exchange Rate Type and Declarant Rate Type Result Account fields are introduced in tfgld120, which can be used when added the tax lines to the tax declaration.

### Czech Republic and Slovak Republic

- Variable Symbol, Constant Symbol, and Specific Symbol options are added to the payment advice. The variable symbol is taken from the Purchase Invoice Entry session. The Constant Symbol is defaulted from the Pay-to Business Partner session.
- The Financial Business Partner Group session has been changed to be able to highlight the registered invoices per type of purchase.
- To be able to report the VAT Checklist, extra fields are added to the:
  - Purchase Invoice Entry session: Original Invoice Number
  - Bank Transactions: Registration Document Number
  - Matching Results (tfcmg2500m100): Registration Document Number
  - Journal Voucher Documents (tfgld0618m000): Registration Document Number
  - Tax Analysis (tfgld1520m000): Original Invoice Number, Registration Document Number
  - Purchase Invoice Inquiry (tfacp2600m100): Original Invoice Number
  - Invoice-from Business Partner Open Entries (tfacp2520m000): Original Invoice Number

## Poland

- The legal regulations binding in Poland require that accounting books be periodically printed and/or transferred to another durable storage medium by a company. According to Art. 13.1 of the Accountancy Act, accounting books consist of sets of accounting records and that include the:
  1. Journal report (Main Journal)
  2. Printout of transactions grouped by ledger accounts
  3. Trial balance
  4. Auxiliary book accounts
  5. Trial balances of auxiliary book accounts.
- Valuation of foreign currencies
- Interest notes
- Fixed Assets
- Bank Files.

## China

Bank Branch Description-field for Chinese market has been increased to capture this information.

## Miscellaneous

### Write off currency differences

- The Print Currency Analysis (tfacr2422m000/tfacp2422m000) -sessions are extended to improve the write off currency difference functionality. Detailed reports on invoice level have been added. This results in a better currency difference analysis using which balances of invoices can be reevaluated at the end of the required period.
- The Write-off Currency Differences sessions have been updated with an option to exclude advance payments and receipts from the calculation. This to accommodate legal regulations in some countries.

### Print Receipts

Selection ranges on Item/Item Group/Buyer are added to the Print Purchase Receipts (tfacp1430m000) session and the Packing Slip is included in the report.

### Business Partner text

An option is added to display text regarding Invoice-From and Invoice-To Business Partner roles in the 360 Receivables and 360 Payables-sessions.

### Sales discount

Modifications are made to display the sales discount amount and discount due date of the first open schedule line on the invoice header.

## Aging Analysis

Several additions are made to the Aging Analysis functionality:

- To meet requirements of several customers, the number of aging buckets that can be defined, has been increased from 6 to 13.
- A new display session, with easy filtering- and export to excel-abilities, has been added to represent aging analysis data.
- Aging data will be stored for each user.
- The 'Standard Aging Analysis Run' option on the aging analysis calculate sessions for Accounts Payables and Accounts Receivables is used to derive the aging analysis data from the In Context Aging Analysis Chart.

## Purchase Type defaulting

In ACP, the defaulting of the Purchase Type on order related Purchase Invoices has been improved. When matching a Purchase Invoice with receipt lines, the Purchase Type is defaulted from the receipt lines to the Purchase Invoice-header.

## Flexible Reporting

Additional Business Partner information (Chamber of commerce ID and Commercial ID) can be used and printed in Flexible Reporting.

## Bank statement lines report

A standard report is added to print the matching results for each bank statement line in a single view.

## Cash Management

- The fields Due date, Discount date, and Payment terms are added to the payment advice lines in the Payment Advice (tfcmg1509m000) session;
- The status, Doubtful is added for the Invoice-to BP;
- Some banks support non-EURO payments (or mixed currencies) through SEPA. Therefore, modifications are made to support multicurrency in SEPA message ISO20022 (XML);
- Ability to authorize users for specific transaction types used when entering manual bank statements.

## Fixed Assets

- Ability added to unapproved purchase invoices integrated with FAM, resulting in reversals (quantity/amounts) on existing or new assets in FAM.
- Modified separate revaluation accounting in FAM by restructuring the process, to ensure that the process is generic and also covers legal requirements for Portugal.
- Asset Transfer and/or Asset Disposal is now possible 'by amount'.
- The Full Depreciation option is added in Fixed Assets (Asset Book Adjustment and Mass Adjust Assets by Book sessions) to allow the user to change the accumulated depreciation, when the book method is changed to a method with a shorter lifecycle. By creating an asset book adjustment, the accumulated depreciation can be adjusted such that the asset book status is fully depreciated.

## **Cash Management**

Check Number/Master can be used in combination with ACH XML file (USA). There is also multi-currency support for ISO 20022 format (e.g. SEPA).

## **Vertex**

Invoice Address for calculating correct tax amount using VERTEX in case the invoice is registered in 1 central financial company, but the invoice is received in at a subsidiary located on a different address (USA)

## **Invoice-From Business Partner Open Entries**

Usability improvement for Invoice-from Business Partner Open Entries:

- Payment, Order, Tax, and Posting Details tabs are added to provide extra information on the invoice
- Update hold reason for multiple selected invoices simultaneously

## **Open Entry Details**

A print option has been added to the Open Entry Details (tfacr2525s000) session to be able to reprint an invoice directly from this session.

## **I-code**

Business Partner I-Code has been added to the Flexible Reporting for Tax Reporting.

## **Print options extended**

- A print button has been added to the Finalization Run Number session to start the Reprint Finalization Status session and the Reprint Journal Report session.
- The print session Print Non-Finalized Transactions is added to the print icon in the satellite session Batches by Finalization Run in order to select first a batch and then to default this batch in the selection of the session Print Non-Finalized Transactions.
- The Print Integration Transactions (By Company/Ledger Account has been changed so that the user can also print the amounts in the home currency.
- A new Print Postings by Invoice (tfacr1450m000) session has been added. When customers analyze their invoices they have to go through numerous sessions to locate to which (revenue) ledger account(s) the invoice has been posted. The reason for this is that in LN, the revenue analysis is posted with a separately journal transaction and thus document number than the invoice. The same goes for sales invoice corrections which are also posted with a separate journal transaction.  
This session gathers those transactions for each invoice.

## **Transaction reversal**

Changes have been made in several sessions to align the method uses to create the journal transactions for reversal transactions. Now, the transaction type allows for negative transactions, the reversal is created with a minus sign instead of a debit/credit sign.

## VAT Adjustment Types

It is now possible to select VAT Adjustment Types separately in the Tax Position session to accommodate legal regulations in some countries.

## Invoice Receipt Date

The Invoice Receipt Date is added as an extra field (initially hidden) to these sessions:

- Purchase Invoice Entry (tfacp2600m000)
- Purchase Invoice Inquiry (tfacp2600m100)
- Invoice-from Business Partner Open Entries (tfacp2520m000)
- Received Purchase Invoices (tfacp1500m000)
- Open Entry Details (tfacp2525s000)

## Cash Forecasting

In the Bank Relation session, it is now possible to indicate if the bank balance of that particular bank relation must be excluded from the cash forecast.

## Tax Date

Tax Date has been added as an extra information field to these sessions to accommodate tax reporting in some countries:

- Purchase Invoice Entry (tfacp2600m000)
- Bank Transactions (tfcmg2500m000)
- Matching Results (tfcmg2500m100)
- Tax Analysis (tfgld1520m000).

## Graphs (In Context BI)

Graphs are added to GL History Sessions:

- Ledger History (tfgld3501m000)
- Distribution by Dimension (tfgld3507m000)
- Dimension History (tfgld3530m000)
- Distribution by Ledger Account (tfgld3525m000).

## Intercompany Labor/Expenses

In an organization where work is executed worldwide in different logistic companies, employees must be able to specify central hours registration on the tasks they executed. Earlier, an employee could only register hours on tasks related to orders/projects belonging to the logistic company.

## Archive and Delete

### • Archive Company

Archive Company in Company Parameters functionality is replaced with the new Archive-to Company field in General Company Data. All archive/delete session are made consistent over multiple processes.

- **Electronic Bank Statements**

Earlier, it was not possible to remove posted Electronic Bank Statement (EBS) batches. This functionality has been added to ensure that the user can archive and delete posted EBS batches.

# Chapter 10 Quality Management

10

This chapter describes the enhancements to Quality Management.

## Contract Deliverables

The Project Contract order origin has been introduced to enable the creation of Inspection Orders and Non-Conformance Reports related to the receipt of Project Contact specific Purchase Orders. Additionally, specific contract information “flow down” to individual Order Inspections has been enabled with the inclusion of user definable fields.

## Specific Unit Set

Using the Quality Management Parameters - Inspection General, it is now possible to select a specific unit set to be used in Quality Management

## Master Characteristics

All characteristics do not require an in depth analysis and an aspect/characteristic combination can now be defined as either:

- An Analytical Characteristic

When this usage is selected it will not be possible to alter any of the characteristic details from other sessions. Analytical characteristics will be Business Object Document enabled for purposes of analysis and workflow.

- A Variable Characteristic

When this option is selected it will be possible to alter the pre-defined limits from the Standard Test Procedures session. Variable characteristics will not be Business Object Document enabled for purposes of analysis and workflow.

## Failure Mode and Effects Analysis

In previous versions of the application, it was not possible to perform an analysis of reliability engineering. From this version onwards, it is possible to execute reliability engineering based on the Failure Mode and Effects Analysis methodology which attempts to identify and resolve potential problems.

Failure mode and Effects Analysis is an established reliability engineering activity that also supports fault tolerant design, testability, safety, logistics support, and the related functions. The technique has its roots in the analysis of electronic circuits made up of discrete components with well-defined failure modes.

The main purpose of the Failure Mode and Effects Analysis is to analyze the design characteristics relative to the planned manufacturing process, to ensure that the resultant product meets customer requirements and expectations.

When potential failure modes are identified, corrective action can be taken to eliminate or significantly reduce the potential for occurrences.

The Failure Mode and Effects Analysis provides an organized and critical analysis of potential failure modes of the defined system, and also identifies the associated causes.

The Failure Mode and Effects Analysis uses occurrence and detection probabilities in conjunction with a severity rating, to create a risk priority number for the ranking of potential corrective action possibilities.

The key measure of the Failure Mode and Effects Analysis is the comparison of the risk priority number for each failure mode and the potential risk priority number, if the potential corrective actions are implemented.

## Order Inspection

This section describes the enhancement for order inspection.

### Order Inspections “Workbench”

The Order Inspections session has been updated to be more task orientated. The session now allows a user to easily search for specific ranges of Order Inspections manually or by use of the pre-defined filters.

The session includes filters provided for specific fields that help a user locate specific data:

- Order Origin
- Team
- Employee
- Test Area
- Business Partner
- Existing Order
- Item

Additional filters are provided which help a user to search for the Order Inspection lines of a specific situation. Based on these filters, a user can locate Order Inspection of related status:

- Free
- Active
- Completed
- Processed
- Closed
- Cancelled

Operational filters can help a user locate Order Inspection lines that are past the due date, due on the current date, or due soon. The user can review these sales order lines to determine possible shortages and the available options to address these shortages. The available filters:

- Past Due
- Due Today
- Due 1-7 Days
- Due > 7 Days

Further filtering of the data can be achieved using the standard grid filtering capabilities

In addition, optional graphs can display the status by origin, average resolution time, and ageing analysis of the selected combination.

## Inspection Orders

This section describes the enhancement for inspection orders.

### Inspection Order Status

A new Inspection Order status, Cancelled has been introduced with these key features:

- Open Inspection Order can be cancelled.
- Existing inspection results are removed when the inspection order status is changed to Cancelled.
- Logistical process blocks associated with the inspection order are removed when the status is changed to Cancelled
- Inspection Orders with the status, Cancelled are transferred to history.

### Inspection Workbench

The ability to define the line level test sequence in which inspection order lines are displayed to the users in the easy entry screens has been added to the workbench. The available options are:

- Inspection Order, Sample, Line, Sample Part
- Inspection Order, Sample, Sample Part, Line, Test Sequence
- Inspection Order, Test Sequence, Sample, Line, Sample Part

In the qualitative easy entry screen, it is now possible to select multiple test lines and enter one common result for all the selected test lines.

It is now possible to process Conformance Documentation based inspection orders using the Inspection Workbench.

It is now possible to select alternative lot/serial number combinations as part of the Inspection Workbench process.

### Generation of Non-Conformance Reports

In the test data screen it is now possible for the user to select multiple defective test lines and then create multiple Non-Conformance Reports, one for each sample part and also simultaneously.

## Sampling Rules

A user will be able to define, per sampling rule, whether to apply the existing order level or new characteristic level based sampling rules. As the sampling rule is associated with the test group within the Standard Test Procedure, this effectively means that switching rules are defined per individual inspection order (Order Level) or by characteristic category within an individual inspection order.

### Sampling Rules – Parameters

A new parameter for the activation of the new Sampling Rule Switching is added:

- When this parameter is activated and is also activated for the Sampling Rule, the header section is enabled to allow users to either order based or characteristic based AQL switching and both the Sampling Rule, Order Level Switching and Sampling Rule Characteristic Level Switching.
- When this parameter is not activated and is also activated for Sampling Rule, in the header section the AQL switching is set to order based and only the Sampling Rule, Order Level Switching are available.

### Sampling Rules - Characteristic Categories

For ease of use and to simplify maintenance, characteristics are grouped into 3 different categories. The default acceptable quality levels and order acceptance/rejection levels and the sampling rule switching criteria will be defined by characteristic category. The pre-defined categories are:

- Critical
- Major
- Minor

### Sampling Rules - Order Level Sampling Rule Switching

Currently, a sampling plan is associated with a test group which contains a default acceptable quality level. This default acceptable quality level is applied to all characteristics within a test group. As a test group defines an inspection order switching to an alternative sampling rule is by inspection order acceptable quality level and inspection result.

When Order Level Sampling Rule Switching is selected, users can select and enter a relevant default AQL to be used for Order Level Sampling Rule Switching

### Sampling Rules - Characteristic Level Sampling Rule Switching

The new functionality is used to transfer the default acceptable quality level from its current location in the test group to the sampling rule. This allows users to define sampling rule switching based for different groupings of characteristics.

There will be default acceptable quality levels and switching rules defined per characteristic grouping (Critical, Major, and Minor).

When the Characteristic Level Sampling Rule Switching option is selected, users can locate, select or create, and enter a default AQL per characteristic category for the Characteristic Level Sampling Rule Switching.

This allows for various types of scenarios to be setup per inspection order, in addition to the normal accept/defect criteria per individual sample. For example, we can setup this combination for an inspection order:

- Critical defects Accept 0 defects and reject on 1 defect
- Major defects Accept 5 defects and reject on 6 defects
- Minor defects Accept 10 defects and reject on 11 defects

In this scenario, the criteria is that a sample can be accepted, if no critical defects and no more than 5 major defects and no more than 10 minor defects are located per inspection order

Alternative examples:

- 0 critical defects, 17 major defects, and 4 minor defects = reject inspection order
- 0 critical defects, 5 major defects, and 10 minor defects = accept inspection order
- 0 critical defects, 0 major defects, and 0 minor defects = reject inspection order

### **Sampling Rules - Rejection Priority**

If the sample is rejected for more than one category, only one sampling plan switching rule will be applied:

- Priority 1 Critical
- Priority 2 Major
- Priority 3 Minor

### **Sampling Rules - Order Inspection Rejection**

There are no changes relating to the current Order Inspection Accept/Reject functionality. If one inspection Order within an Order Inspection is rejected then that Order Inspection is rejected.

## Non-Conformance Reports

This section describes the enhancement for non-conformance reports.

### Non-Conformance Reports “Workbench”

The Non-Conformance Reports session has been updated to be more task orientated. The session now allows a user to easily search for specific ranges of Non-Conformance Reports manually or by use of the pre-defined filters.

The session includes filters provide for specific fields that help a user locate specific data:

- Order Origin
- Warehouse
- Work Centre
- Business Partner
- Item

Additional filters are provided which help a user to search for the Non-Conformance Reports of a specific situation. Based on these filters, a user can locate Order Inspection of status:

- Open
- Submitted
- Assigned
- Dispositioned
- Closed
- Cancelled

Operational filters can help a user locate Non-Conformance Reports that are past the due date, due for on the current date, or due soon. The user can review these sales order lines to determine possible shortages and the available options to address these shortages. The available filters:

- Past Due
- Due Today
- Due 1-7 Days
- Due > 7 Days

Further refinement of the data can be achieved by use of the standard grid filtering capabilities.

In addition, optional graphs can display the status by origin, average resolution time, and ageing analysis of the selected combination.

## Corrective Action Plans

This section describes the enhancement for corrective action plans.

## Corrective Action Plans Workbench

The Corrective Action Plans session has been updated to be more task orientated. The session now allows a user to easily search for specific ranges of Corrective Action Plans manually or by use of the pre-defined filters.

The session includes filters provided for specific fields that help a user locate specific data:

- Category
- Owner
- Approver
- Item

Additional filters are provided which help a user to search for the Non-Conformance Reports of a specific situation. Based on these filters, a user can locate Order Inspection of related status:

- Open
- Submitted
- Approved
- Modified
- Closed
- Cancelled

Operational filters can help a user locate Corrective Action Plans that are past the due date, due for on the current date, or due soon. The user can review these sales order lines to determine possible shortages and the available options to address these shortages. The available filters:

- Past Due
- Due Today
- Due 1-7 Days
- Due > 7 Days

Further refinement of the data can be achieved by use of the standard grid filtering capabilities

In addition, optional graphs can display the status by origin, average resolution time, and ageing analysis of the selected combination

## Resource Allocation

To support the introduction of the new Resource Management module, additional functionality has been added to Quality Management. This functionality is parameter controlled and enables users to manually allocate resources to Quality Management activities. This manual allocation of resources is part of the Recourse Management functionality and will be enhanced further in future releases. The specific changes, for each functional area are:

- For Inspection Orders, new fields, Time per and Time Estimate, Assigned Employee, Planned Start Date, Planned Completion Date, Test Skill, Instrument Skill, and a Time per and Estimated Instrument in use Time for each inspection order test line are added.
- For Non-Conformance Reports, new fields, skill required, assigned employee, time estimate, planned start date, and planned completion date for the disposition of both material and non-material dispositions are added.
- For Corrective Action Plans, new fields, Planned Start Date, Planned due Date, Assigned Employee, Skill required, and Time Estimate for a Corrective Action Plan task are added.

## Enhanced Metrics

There is an outstanding requirement to analyze the quantitative and qualitative data that is collected within the Quality Management module in order to report, track and analyze actual performance. This analysis is also useful for identifying opportunities for targeted improvement programs. Several metrics have been made available in this release via the Business Intelligence suite as follows

### By Status and Origin

This metric displays all order origins or a specific order origin and displays the number of business objects by origin, grouped by a user defined time period, covering a user specific time horizon and displayed in clustered columns to reflect the different statuses. The specific business objects covered are:

- Order Inspections
- Inspection Orders
- Non-Conformance
- Corrective Action Plans

### Ageing Analysis by Origin

This metric displays the number of “open” business objects and the total amount of time these objects have been “open” by order origin, at the end of each user defined time period type over a user specified time horizon. Groupings are currently defaulted at > 10 days, >20 days, >30 days, >40 days. The specific business objects covered are:

- Order Inspections
- Inspection Orders
- Non-Conformance
- Corrective Action Plans

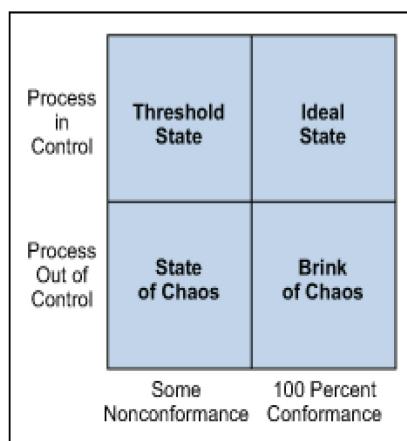
## Pareto Analysis

There are multiple Pareto Analysis charts available:

- Non-Conformance Reports, Analysis of Cause (Material)
- Non-Conformance Reports, Analysis of Cause (Non-Material)
- Non-Conformance Reports, Analysis of Severity (Material)
- Non-Conformance Reports, Analysis of Severity (Non-Material)
- Non-Conformance Reports, Analysis of Disposition (Material)
- Non-Conformance Reports, Analysis of Cause (Material)
- Non-Conformance Reports, Analysis of Type (Material)
- Inspection Orders, Reject Reasons Analysis by Origin

## Control Charts

LN also offers several Control Charts which are simple, robust tools for understanding process variability. These charts allows users to track and project process variability depending upon the current process state.



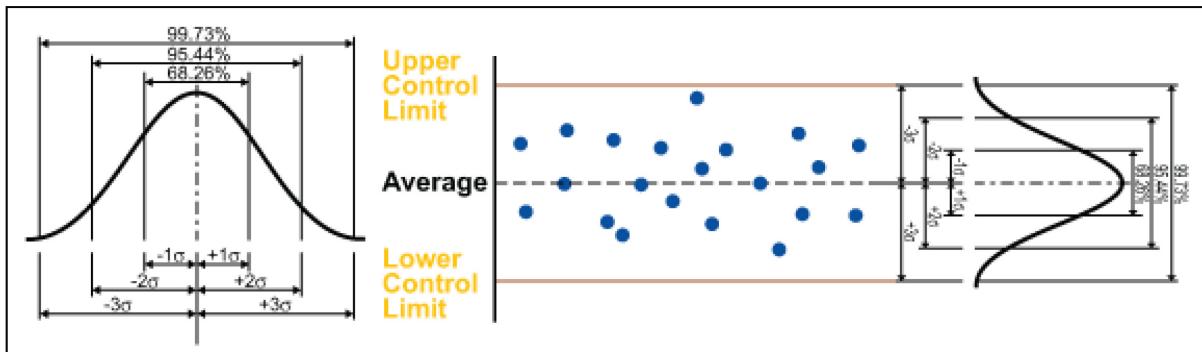
All Processes fall into one of four basic states. Ideal, Threshold, Brink of Chaos, and State of Chaos.

When a process is in the ideal state then that process is in statistical control and produces 100% conformance and meets customer expectations.

When a process is in the threshold state then that process is in statistical control but still produces the occasional non-conformance and does not consistently meet customer expectations. The brink of chaos state reflects a process that is not in statistical control, but is also not producing rejects. The process is unreliable but the output still meets customer expectations.

The state of chaos reflects a process that is not in statistical control and produces unpredictable levels of non-conformance

Without effective control mechanisms all processes tend to migrate to the “state of chaos” and control charts are based on this control mechanism. Control charts work best with processes that are “within statistical control limits”



This graphic attempts to represent a process that is under statistical control.

On the left hand side of the screen, you can view the representation of a standard distribution chart based on standard deviation principles. If the measured process variables are within  $+/- 3$  standard deviations of the calculated mean, then the process is said to be within statistical control and control charts may be used. Outside these limits, control charts are very limited, if any, real use. On the right hand side of the screen, you can view the representation of a time based control chart with upper and lower control levels. Therefore, control charts basically take a distribution histogram which has been laid on its side with the added elements of time (samples left to right) and control limits based on standard deviation principles

LN offers three specific options in the general area of control charts, all based on analysis of item aspect/characteristic combinations. Those options are:

- Distribution Histograms

These histograms are an analysis of actual inspection order results at the characteristic level and are based on Standard Deviation principles.

- Process Capability Charts

These Capability Charts are an analysis of actual inspection order results and LN offers three standard options in this area:

- Xbar R displaying the process mean and the process range
- Xbar S displaying the process mean and the process standard deviation
- XMR displaying the individual measurement and the moving range

- Quality Control Charts

These Quality Control Charts combine both distribution histograms and process capability charts into one view.

# Chapter 11 Invoicing

11

This chapter describes the enhancements to Invoicing.

## Invoicing Role based Menu

The Invoicing menu has been revised based on role based activities. The Invoicing package supports three roles, which are the top three menu entries. The Invoicing menu basically displays 5 menu options, depending on the Implemented Software settings:

- **Invoicing 360:** This session displays the overall status of all Billable Lines and Invoices. The summary of amounts are also displayed. Manual Invoicing is also possible.
- **Mass Invoicing Workbench:** The purpose of this new session is to help users with automated invoicing of large batches that, in most cases, are recurring. Additional information is detailed in this chapter.
- **Self-Billing Workbench:** The purpose of this new session is to help the user with exception handling for Self-Billing. Additional information is detailed in this chapter.
- **Invoicing Master Data:** The purpose of this new session is described in the Invoicing Master Data section.
- **Utilities.** This menu entry displays the possibility to Generate Sales Listing and Archive and Delete Invoicing Data.

**Note:** Some menu options are hidden, for example, Update Vertex Tax Register. As these options may not be applicable to your company, therefore, by default these options are hidden. However, this setting can be removed.

## Terminology Improvement

The term Billing Request was not in line with the other terms used in Invoicing and not intuitive. Therefore, Billing Request and these related terms have been modified:

- Billing Request > Invoicing Batch
- Billing Request Template > Invoicing Batch Template
- Billing Request Set > Recurring Invoice Batch
- Billing Request Addition > Invoicing Options

## Mass Invoicing Workbench

The Mass Invoicing Workbench is a new session that displays all Invoices and Billable Lines that have been processed on a specific processing date. The session also displays the summary based on the Run by Date and allows the user to filter, and navigate to earlier or later dates with a single click.

As recurring Invoice Batches can be large, exception handling is embedded in the session to handle the Invoices that have not been processed successfully. For example, if the financial period in the GL is not open.

This session also allows you to

- Set up Recurring Invoice Batch
- Define Jobs
- View Job history

## Self-Billing Workbench

The Self-Billing Workbench is a new session that displays the summary of all the Self-Billed Invoices that are processed. This is an exception-based session, which allows the user to focus on Self-Billed Invoice Lines that do not match automatically. The user can also execute the required actions to match the lines.

## Self-Billing Invoice Matching

The Self-Billed Invoicing process has been improved to enable automated processing, as much as possible. A new set of Flexible Matching rules has been developed. The user can now set up rules with priorities, based on Flexible Matching Criteria such as Item and Shipment.

## Clear Invoice

In earlier versions, the Invoice layout contained all possible Invoice fields. Customization was required to fit the Invoice Layout for a specific company requirements. With this release, 17 Industry specific Invoice layouts are delivered, out of the box. These include the generic Sales Invoice, Tax-Only Invoice, Interest Invoice, and also A&D specific Invoices such as DD250.

These Invoice layouts can be configured to add (or even remove) Invoice attributes. For example, the application offers multiple addresses such as the Invoice-to address, Ship-to address and the Sold-to address that can be printed. In many cases, as these are all the same, the user can determine if only the Invoice-to address must be printed.

The benefit being multiple and varied Invoice layouts, that do not require customizations anymore, can be configured.

## Invoicing 360 filter Invoice Type

The Invoice Type field has been added to the Invoicing 360 session to allow for better filtering, especially in a Project or Contract context. Previously, if the Invoice Source was Contract, the Invoice Type could be Cost Plus, Installments, or Contract Delivery and it was not possible to view or filter this information.

## Invoicing Data Maintenance

This section describes the enhancement for invoicing data maintenance.

### Maintain Invoice header fields

A number of billable line fields can be maintained by the user when the status of a billable line is On Hold. This feature has been extended for composed or printed invoice header fields.

Invoice header fields which can be edited when the status of Invoice is Ready to Submit, Ready to Print, or Printed:

- Financial Department
- Invoice-to Address
- Pay-by Address
- Invoice Delivery Method
- Payment Method
- Sales Type
- Bank Account Code
- Invoice Layout

If the attributes of a Printed invoice are changed, it is possible to print the invoice again with the changed attributes.

Note: To change the data of an invoice that is posted, the Credit and Rebill option has been made available for the user.

### Rate Date change on Invoice

Rate Date on a composed invoice can now be changed. When this results in a new currency rate, all the amounts are recalculated based on the new rate.

### Maintain Billable Line fields

It is now possible to change the billable line attribute “Delivery Date” when the billable line status is “On Hold”. This is applicable for invoice of all origins.

## Integration Transaction Logged Elements

While the data could be changed in Invoicing, the changed data was not available for mapping. These elements based on invoicing object are now available for mapping for revenue and cost of goods sold integration transactions are added:

- Tax Country
- Tax Code
- BP Tax country
- Area
- Sales Representative
- Financial Department

These elements replace the original elements linked to the source object for the revenue and cost of goods sold integration transactions.

## Stamp Tax

Stamp Tax requirement of Italy has been made available. The solution enables the.

- Configuration of threshold levels, stamp tax amount, and chargeability to customer.
- Automatic addition of the stamp tax to the invoices (based on configuration).
- Identification of invoices with the stamp tax. This can be used for virtual stamp tax handling.
- Charging stamp tax amounts to the customer.

## Invoice Layouts

Default Invoice Layouts can be set up for Invoice-To Business Partners. In case specific invoice layouts are not maintained for Invoice-To Business Partner, the company default is used.

For Invoice Layout configuration, it is now possible to (test) use an invoice layout with the status, "Free", for preview purpose. Original invoice print still require an invoice layout with the status, "Active".

In case of foreign currency invoice, configurable invoice tax summary now specifies this information:

- Taxable Amount in foreign currency
- Taxable amount in local currency
- Tax Amount in local currency
- Total Amount in local currency
- Currency rate used for conversion to local currency

## Manual Sales Invoice

A 'tax-only' manual sales invoice can now be created to specify a taxable amount. When specified, the taxable amount is printed on the invoice and transferred to Financials during posting.

## Year and Period Determination

"Fiscal Period Derived From" and "Tax Period Derived From" options can be specified in the Invoicing Parameters. The available options have been extended and made uniform for both these periods.

The available options:

- Order date
- Delivery date
- Invoice Date
- Tax Date
- Transaction Entry Date

## Installments

Prorated installment plan has been introduced for sales orders. This is based on an installment plan which can be linked to a sales order. Installment invoices are created by applying the defined installment invoicing percentage for each of the order lines. The invoice created can be aggregated by installments. At a high level, this additional functionality is included:

- Several tax codes can be used on the sales order with installments.
- Installments and settlements are prorated.
- Line information are available for installment integration transactions, for example, Item.
- Segment accounting has been enabled on installments.
- User can override the advance paid check to allow the release to warehousing even when an advance is not fully paid.

## Split Payment of tax – Shifted tax on sales

In Italy, some public organizations are required to pay taxes on their purchases directly to the tax authority. The sales invoice created by the supplier must state the tax payable, but also mention tax will paid by the buyer directly to the tax authority. Also the open entries created must only be for the net amount because tax amount will be paid directly by the buyer to the tax authority. This functionality has been enabled when using the "Shifted" tax code on a sales invoice.

## Retro billing – Correction of Original Invoice

When retro billing orders are invoiced, the link to the original invoice is maintained. Also, these invoices are handled as corrections of original invoice. This applies to both positive and negative price changes / amounts.

## Chapter 12 Taxation

12

This chapter describes the enhancements to Taxation.

### Vertex

Vertex has now been enabled for global use. Previously, Vertex was only enabled for USA and Canada. Vertex O Series can now also be used for other countries, for example, in Europe. Infor customers that have a global license for Vertex O Series can choose to use the standard LN tax engine or utilize the capabilities of the Vertex O Series.

### Tax Exception defaulting for Advances

Tax Exceptions are now enabled for the Sales Installment Type, Advances. This was requested because many customers had to manually override the tax code on the Advances.

The restrictions set by the installments on the tax code to be used for advances are still applicable.

### Intrastat – Italy

Intrastat handling and declaration has been improved for Italy. These improvements include:

- Declaration values are stored also in Business Partner currency
- Updating Intrastat with invoicing data
- Allocation of cost items over invoice lines for declaration
- Generate Italian specific Intrastat file

### Sales Listing

Tax date from sales invoice is stored in the sales listing, in case the tax period is derived from the tax date.

This chapter describes the enhancements to People.

## Skills

To provide more flexibility, the length of the skill (code) has been extended from 4 to 9 characters. This benefits Service, Quality, and Manufacturing, as these domains use the skills as defined in LN People. The use of skills also has been introduced in Project and for job shop production orders and Project (PCS) activities.

## Labor Rate Codes

To provide additional flexibility, the length of the labor rate code has been extended from 3 to 6 characters. This benefits Project and Service, as these domains use the labor rate codes for several objects.

## Job Title

To provide additional flexibility the length of the job title of an employee has been extended from 30 to 50 characters.

## Assignments

The procedure to use timesheet assignments is modified. As part of the new procedure, a user selects relevant assignments for the timesheet (pull method). Only relevant assignments are displayed, that is, assignments available for the employee, origin, and time period selected for timesheet. Some of these options can be defaulted but are not displayed using Quick flow. This new Get Assignments option replaces the Use Assignments option as a Specific option on the timesheet. The Use Assignments session is available as a stand-alone option for relevant administrator` (push method).

## Submit and Reject Project Hours

In LN People, as part of project hours and expenses functionality, it was not possible to differentiate the entered time lines from submitted time lines. An employee must decide which periods in the time lines must be submitted to be considered for approval and processing. For LN Project related hours, two new options have been added.

- An option to check which time lines are being considered for further processing, and ensure that these lines are submitted by the employee.
- As part of the existing Project Approval Authorization option enables the user to reject time lines submitted by employees. Rejected lines must be evaluated by the employee, changed (or deleted) and resubmitted.

Note: These two options are primarily focusing on organizations such as consultancy and engineering companies that run projects as a key execution tool. Therefore, the new options are only available for LN Project related hours.

# Chapter 14 Document Management

14

This chapter describes the enhancements to Document Management.

## Document Output Management (DOM)

This section describes the enhancement for document output management.

### Additional attachment to email

Document Output Management now provides the user the option to add an additional attachment to an email. Users can select different types of files, such as pictures or documents, from the local system before sending the email.

### Distribute Addendum documents in addition to main document

In Document Output Management, you can now send addendum reports as attachments along with the main report. For example, you can print the Project Contract Acknowledgement report along with the Installments as a possible addendum.

### Predefined Document Types

To aid in the modeling of document types, a list of predefined document types is available. These can serve as the basis and/or starting point in a DOM implementation. Users can import these document types and modify the documents as required. The predefined document types are delivered in a .zip file and can be accessed from the Additional Files (ttadv2570m000) session.

To import this content, download the “tcgenLN\_Document\_Type\_Templates.zip” file (located in the “tc-common” package) from the Additional Files session and use the Import option in the Document Types (trpi2510m000) session. As part of the import procedure, you must upload the .zip file.

The .zip file contains these predefined document types:

Document Type	Description	Receiver type
RN	Purchase Order Return Note	Business Partner
POC	Purchase Order Claim	Business Partner
POR	Purchase Order Reminder	Business Partner
PCA	Purchase Contract Acknowledgement	Business Partner

Document Type	Description	Receiver type
PCT	Purchase Contract Termination Letter	Business Partner
RFQ	Request for Quotation	Business Partner
RFQUB	Letter for Unsuccessful Bidder	Business Partner
RFQR	Letter for Quotation Reminder	Business Partner
SVCON	Service Contract Document	Business Partner
SCA	Sales Contract Acknowledgement	Business Partner
SHIPPS	Shipment Packing Slip	User
SHIPBOL	Shipment Bill of Lading	User
SHIPPL	Shipment Packing List	User
SHIPMF	Shipping Manifest	User
TFREM	Reminder Letter (AR)	Business Partner
INVOICE	Invoice	Business Partner
PO	Purchase Order	Business Partner
SVCALL	Service Call	Business Partner
SVCCRMA	Service Customer Claim RMA	Business Partner
SVCCA	Service Customer Claim Acknowledgement	Business Partner
SVSC	Service Supplier Claim	Business Partner
SO	Sales Order	Business Partner
QUOTE	Sales Quote	Business Partner
PROJ_CONTR	Project Contract Acknowledgement	Business Partner



# Chapter 15 DEM Content Pack

15

This section lists all the modified, new, and expired business processes and static conditions in the DEM content pack LN 10.5.

## Overview Processes

Business Process	Description	Change
OAD010	Defense Contractor	Modified
OAU010	Automotive Supplier	Modified
OAD120	Quality Control and Assurance	Modified
OCI010	Project - Service	Modified
OCI110	Manage Prospect/Customer Activities (CRM)	Expired
OFI010	Procure and Sales to Taxation - Finance	New
OGM010	General Manufacturing	Modified
OHT011	High Tech & Electronics	Modified
OIM010	Industrial Machinery	Modified
OIM020	Heavy Equipment	Modified
OIM100	After Market Service	Modified
OMP010	Design to Deploy	Modified

## Main Processes

Business Process	Description	Change
MAM003	Manage Prospect/Customer Activities (CRM) & Sales/Service Quotations	Modified
MAM004	Create / Maintain Sales / Service Quotation	Modified
MAP001	Control Supplier Cash Flow	Modified
MAP010	Register / Approve Purchase Invoices / Credit Notes	Modified
MAR001	Control Customer Cash Flow	Modified
MAR009	Create Invoice	Modified
MAS010	Manage Fixed Assets	Modified
MCM010	Create Payment	Modified
MCM030	Process Customer Receipts	Modified
MCO010	Manage Operations / Materials	New
MCO510	Parameters / Master Data (Common/Business Partners)	Modified
MFI003	Process Transactions Entry	Modified
MFI510	Parameters / Master Data (Financial Management)	Modified
MFI010	Generate Integration Transactions	Modified
MFM020	Create/Maintain Freight Orders	Modified
MFM050	Manage/Close Freight Orders	Modified
MIT010	Change ERP Application Configuration	Modified
MIT020	Contact Infor Support	New
MIT510	Parameters/Master Data (ERP Application Configuration)	Modified
MME510	Parameters / Master Data (Hours Accounting)	Modified
MMN010	Complete Production / Assembly Order	Modified
MMN510	Parameters / Master Data (Production / Assembly)	Modified

Business Process	Description	Change
MPA014	Maintain Product Data	Modified
MPA510	Parameters / Master Data (Product Control)	Modified
MPB010	Create/Maintain Financial Budget for Reporting	Modified
MPB511	Parameters / Master Data (Cost Accounting)	Modified
MPL001	Company Owned Supply Forecasting to Customer	Modified
MPL010	Actualize the Material Requirement Planning (Supply)	Modified
MPL011	Dispatch Production Order	Modified
MPL020	Actualize Master Planning (MPS)	Modified
MPL030	Actualize the Material Requirement Planning (Production)	Modified
MPM020	Maintain Business Processes and (Data) Authorization	Modified
MPM510	Parameters / Master Data (BPM & Authorizations)	Modified
MPR100	Create / Maintain Project Definition and Contracting	Modified
MPR210	Rendering a Project Estimation and Bids	Modified
MPR220	Create Project Activity Planning	New
MPR230	Create / Maintain Project Budgeting	Modified
MPR240	Manage Project Shipments	New
MPR260	Cost Control / Report Project	Modified
MPR270	Prepare Contract Invoicing	Modified
MPR280	Project Requirement Planning	Modified
MPR300	Progress / Approval on Project	Expired
MPR310	Project Closing	Modified
MPR510	Parameters / Master Data (Project Delivery)	Modified
MPU001	Control Supplier Performance	Modified

Business Process	Description	Change
MPU003	Process Purchase Orders / Schedules	Modified
MPU020	Process Pre-Purchase Order Activities	Modified
MQM010	Maintain Quality Gates	Modified
MQM510	Parameters / Master Data (Quality Management)	Modified
MRA059	Close Financial Period	Modified
MSE001	Create / Maintain Service Configuration	Modified
MSE002	Maintain Calls	Modified
MSE007	Create / Plan Service Order	Modified
MSE008	Manage Service Operations	Modified
MSE009	Perform Service Inspections	Modified
MSE010	Perform Preventive Maintenance	Modified
MSE020	Create Customer Claim	Modified
MSE510	Parameters / Master Data (Service)	Modified
MSL020	Create / Maintain Sales Orders/Schedules	Modified
MSL510	Parameters/ Master Data (Sales)	Modified
MWH002	Control Inventory	Modified
MWH005	Manage Operations / Materials	Expired
MWH020	Ship Material	Modified
MWH510	Parameters / Master Data (Warehousing)	Modified

## Detailed Processes

Business Process	Description	Change
DAM003	Supplier Control by Role	Modified
DAP002	Process Purchase Invoices (Master Data)	Modified
DAR001	Master Data Credit Control	Modified
DCO510	Parameters (Common)	Modified
DCO001	Terms and Conditions	Modified
DCO002	Company Owned Supply Chain Modeling	Modified
DCO003	Company Setup	Modified
DCO030	Discount Agreement	Modified
DCO040	Price Agreements	Modified
DCO060	Monitoring/Exception Handling EDI	Modified
DCO070	Monitoring/Exception Handling Transformation	Modified
DCO510	Parameters Common	Modified
DCP010	Compliance Review Export	New
DCP020	Compliance Review Import	New
DCP510	Global Trade Compliance Master Data - Export	New
DCP520	Global Trade Compliance Master Data - Import	New
DEN001	Determine and set Change over date	Modified
DEN002	Bill of Material Maintenance	Modified
DEN004	Engineering BOMs	Modified
DEN009	Roll out new component	Modified
DFI000	System Parameters (Financials)	Modified
DFI001	Archiving	Modified

Business Process	Description	Change
DFI002	Finance (Organization)	Modified
DFI010	Import Journals	Modified
DFI100	Process Intercompany Trade Orders	New
DFI015	Financial Transactions Master Data	Modified
DFM001	Freight (organization)	Modified
DFM010	Freight Planning	Modified
DIT030	Data and Database Maintenance	Modified
DIT040	Financial Processes Restart/Rebuild	Modified
DIT041	Logistical Processes Rebuild/Repair	New
DIT050	Company Data Management	Modified
DIT060	Software Maintenance	Modified
DIT070	Hardware Maintenance	Modified
DIT071	Master Data Devices	Modified
DIT130	Monitor/Process XM Data	Modified
DIT135	Setup/Monitor Factory Track	New
DIT510	Parameters (ERP Application Configuration)	Modified
DME002	People (Organization)	Modified
DME010	Hours Accounting & Processing	Modified
DMN001	Production (System Parameters)	Modified
DMN004	Production (Organization)	Modified
DMN006	Production Completion	Modified
DMN010	Production Subcontracting Operations	Modified
DMP070	View / Audit Data Authorization and Security	Modified

Business Process	Description	Change
DPA003	Product Data (Costing)	Modified
DPA005	Product Data (Planning/Inventory/Ordering)	Modified
DPA006	Product Data (Purchase)	Modified
DPA007	Assembly Lines (Master Data)	Modified
DPA014	Item Group Defaults	Modified
DPA015	Product Data (Project)	Modified
DPA016	Tool Data	Modified
DPA520	Item Master Data Masks	Modified
DPB103	Perform Allocation and Iteration	Modified
DPB105	Process Allowed Costs and Deviations	Modified
DPL002	Calendar Management	Modified
DPL014	Material Planning (Production)	New
DPL016	Capacity Leveling	New
DPL040	Production Scheduling (Repetitive)	New
DPL100	Resource Planning	New
DPL510	Parameters (Planning)	Modified
DPM030	ERP Users Management	Modified
DPM050	Change Order Procedure	Modified
DPM060	Control Data Authorization and Security	New
DPM061	Permissions by Business Process	Modified
DPM070	Create/Maintain Business Processes and Authorization	Modified
DPM510	Master Data Business Process Management	Modified
DPM511	Maintain Data Authorization and Security Master data	New

Business Process	Description	Change
DPO002	General Ledger Management	Modified
DPO003	VAT (Master Data)	Modified
DPO008	Sales and Use Tax	Modified
DPO100	Master Data Financial Statements	Modified
DPO012	Invoicing (Master Data)	Expired
DPR003	Contract Agreements	Modified
DPR004	Project Structure	Modified
DPR007	Overhead	Modified
DPR008	Forecasting	Modified
DPR009	Physical Progress	Modified
DPR011	Cost Plus Invoicing	Modified
DPR012	Progress Payment Invoicing	Modified
DPR014	Project (Organization)	Modified
DPR015	Revenue Recognition	Modified
DPR050	Project Definition / Estimation	Modified
DPR052	Project Evaluation/Closure	Modified
DPR202	Project Estimating	Expired
DPR205	Project Calculation	Modified
DPR230	Bottom Up Budgeting	Modified
DPR231	Top Down Budgeting	Modified
DPU001	Purchase Orders	Modified
DPU004	Purchase Contracts/Agreements	Modified
DPU005	Purchase Contracts	Modified

Business Process	Description	Change
DPU008	Parameters (purchasing)	Modified
DPU030	Purchase Request	Modified
DPU040	Purchase Request for Quotations	Modified
DQM002	Order Inspection	Modified
DQM003	Product Data (Quality)	Modified
DQM004	Product Deviation handling	Modified
DQM010	Receipts (Inspection)	Modified
DQM011	Failure Mode and Effects Analysis	New
DRA015	Revenue Recognition Manufacturing Projects	Modified
DRA027	Archive/Delete Cycle Counting data	Modified
DRA033	Archive/Delete Service Data	Modified
DRA037	Archive/Delete Quality Data	Modified
DRA050	Archive/Delete Finance Related Data	Modified
DRA054	Archive/Delete General Ledger Related Data	Modified
DRA055	Archive/Delete Financial Statement Data	Expired
DRA056	Archive/Delete Cost Accounting Data	Modified
DRA058	Inventory Valuation	Modified
DRA205	VAT Liquidation	Modified
DRA210	EU Reporting	Modified
DRA220	Tax Italy	Modified
DRA225	Tax Israel	Modified
DRA301	Reporting using External Reporting Tool	Modified
DSE008	Service (organization)	Modified

Business Process	Description	Change
DSE015	Group Planning	Modified
DSE020	Tool/Asset Serial Refurbishment check	Modified
DSE030	Master Data Warranty	Modified
DSE080	Service Contracts	Modified
DSE510	Parameters (Service)	Modified
DSL002	Sales Orders (Progress Control)	Modified
DSL030	Sales Quotation	Modified
DSL042	Commissions Calculation	Modified
DSL060	Opportunity Management	Expired
DSL080	Sales Contract	Modified
DWH001	Cycle Counting	Modified
DWH003	Goods Shipment (Shipping)	Modified
DWH005	(Un)block Zones/Locations/Inventory	Modified
DWH008	Shipping Documents	Modified
DWH009	Inventory Adjustment	Modified
DWH010	Inventory Movements	Modified
DWH011	Project Cost Peg Transfers	Modified
DWH020	Monitoring/Exception Handling AE docs	Modified

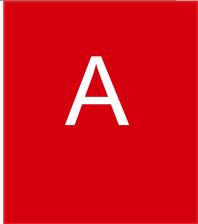
### Static Conditions

Static Condition	Description	Change
AA0010	Table Sharing Modeling	Modified
AA0020	Data File Exchange between company Numbers	Modified

Static Condition	Description	Change
AA1108	Usage of 360 (Dashboard) Common	New
AA1109	Usage of 360 Contracts	Modified
AA8200	Integration with XM	Modified
AA8300	Integration with Factory Track	New
CI0050	Self-billing for Customer Invoicing	New
CO050	Data Authorization and Security	New
CO0060	Global Trade Compliance - Export	New
CO0061	Global Trade Compliance – Import	New
CO1060	Generate Sales/Purchase Orders on Catalogs	Modified
CO3040	Resource Planning	New
DM0000	Document Management from ERP (ODM)	Modified
FI1100	Financial Subcontracting (The Netherlands)	Modified
FI5300	SEPA (EU)	Modified
FI5310	1099 Reporting (US)	Modified
FI5330	DAS2 Reporting	Modified
FI5350	Withholding Tax and GAF File (Israel)	Modified
FI5360	Monthly Billing Invoices (Japan)	Modified
FI5400	Spesometro Tax Declaration (Italy)	New
IT0300	Data File Exchange between Company	Expired
IT0400	Table Sharing Modeler	Expired
MN0000	Production	Modified
MN3500	Job Shop Production Schedules	Expired
MN3510	Repetitive Manufacturing	New

Static Condition	Description	Change
MN3520	Workstation Reporting	New
PL0050	Generate Purchase Orders from a Sales Order	Modified
PR1050	Advance Payments for Project Industries	New
PR1087	Constrained based Activity Planning	New
PR1088	Group Planning for Project Activities	New
PR1095	Extensions	New
PR1110	Project Physical Progress	New
PR1300	Customer Furnished Materials	Expired
PU1050	Suppliers Questionnaires	Modified
QM0060	FMEA	New
QM2000	Resource Planning for Quality	New
SE0022	Resource Planning for Service Orders	New
SE0025	Resource Planning for Work Orders	New
SE0026	Plan for Planned Activities	Expired
SE0027	Resource Planning for Planned Activities	Modified
SE0500	Service with Production order	Expired
SL1000	Sales / Service Opportunities	Modified
SL3010	Generate Sales orders based on Sales Catalog	Expired
SL3130	Customer Acceptance of Shipping Ownership Change	Modified
SL3150	Shipping to customers also initiated by Sales Dept.	Modified
SL3160	Customer Furnished Materials	Modified
WH0510	Time based Ownership Change Orders	Modified

# Appendix A Session (Usability)



A number of sessions have been reviewed and changed to improve user experience, facilitate easy data entry, and increase screen readability. The tables list the sessions that are impacted.

## Project

Session	Improvement
Bids (tpest3100m000)	Group boxes and fields reorganized to improve usability and data entry and new fields added.
Cost Objects (standard and project) Standard / Budget Surcharges for Labor (tpfdm1173s000/tpptc0121s000) Project Employees (tpfdm8101m000)	Simplify UI by only displaying the home currency fields, if the currency system is Independent.

## Planning and Production

Session	Improvement
Items (tcibd0501m000)	Session renamed from Items-General to Items. Group boxes and fields on the detailed screens are reorganized to improve usability and data entry.
Bill of Material (tibom1110m000)	Group boxes and fields on the detailed screens are reorganized to improve usability and data entry.
Production Order (tisfc0101m100)	Group boxes and fields on the detailed screens are reorganized to improve usability and data entry.

## Warehouse Management

Session	Improvement
Warehouse – Item (whwmd2510m000)	Session renamed to Item data by Warehouse
Warehouse Order (whinh2100m100)	The Activities tab is removed. Using the Reference menu, users can navigate to Activities by Warehousing order.
Warehousing Order (whinh2100m100)	The new default value for the Order field, when manually entering a new record, is Transfer (Manual), as this is the most frequently used order type for a manual warehouse order.
Cycle Counting Order (whinh5600m000)	The Process Count option is initially hidden.
Shipment Lines (whinh4131m000)	Group boxes and fields on the detailed screens are reorganized to improve usability (functional alignment).
Warehousing Orders (whinh2100m000) Planned Inventory Transactions (whinp1500m000) Warehouse-Item-Stock Point Transactions (whinr1500m000)	Easy Filtering options for the Order Origin or Originating Type of Order column are now based on active implemented concepts.
Multiple Sessions	When you click the More Information on the shortage message, a pop-up is triggered displaying the additional details using the Warehouse – Item Inventory (whwmd2115s000) session.
Multiple Sessions	All lot or serial related fields from operational and overview screens are removed, if the Lot Control in Use, and Serialized Items in Use, or both, parameter fields in the Warehouse Master Data Parameters (whwmd0100s000) session are inactive.
Warehousing Order (whinh2100m000) Inbound Order Lines (whinh2110m000)	The Landed Cost Classification fields on the warehouse order header and the inbound order lines are not displayed, in case the Landed Cost concept parameter is not active.
Multiple Sessions	The Effectivity Unit field is not displayed when the Unit

Session	Improvement
	Activity concept parameter is not active.
Outbound Order Lines (whinh2120m000) Shipment Lines (whinh4131m000) Inspection Lines (whinh2131m000) Inbound Order Lines (whinh2110m000) Receipt Lines (whinh3112s000)	Deactivation of Demand Pegging and ASC Implemented concept parameters, in combination with the Production Order Reference on Subassemblies Production Order parameter and the Sell Multiples of Same Configuration Assembly Control parameter, results in the removal of the Specifications tabs from the inbound-inspection-outbound procedure sessions
Multiple Sessions	If the Ownership External and Ownership Internal concept parameters are disabled, ownership-related tabs, group boxes and fields are not displayed.
Multiple Sessions	Switching off the Handling Units in Use parameter in the Warehouse Master Data Parameters (whwmd0100s000) session, implies that all Handling Unit related tabs, boxes, and fields are removed from all sessions and screens in the Warehouse Management module. In addition, HU-related options are also hidden on the drop-down menus for Views, References, and Actions.

## Service Management

Session	Improvement
Serialized Items (tscfg2100m000)	Information is grouped in a more logical manner. Number of fields are initially set to hidden to improve readability of the screen.
Master Routing (tsacm1600m100)	On the Operation line level, it is possible to change the default Work Center. The Work Center is defaulted from the Reference Activity.

## Quality Management

Session	Improvement
Inspection Orders (qmptc1100m100)	This session has been removed from the main menu and can now be accessed available from the Workbench (qmptc8355m000) and the Order Inspection (qmptc1120m000) sessions.
Generate Storage	This session has been removed from the main

Session	Improvement
Inspections (qmptc2220m000)	menu and is now can now be accessed from the Storage Inspection (qmptc2120m000).
Item Quality Statistics (qmptc1140m000)	This session has been removed from the main menu and can now be accessed from the Item Analysis ((qmptc1117m000) session.
Rejects by Characteristic (qmptcs1545m000)	This session has been removed from the main menu and is now can now be accessed from the Item Analysis ((qmptc1117m000) session.
Order Inspections History (qmptc3501m000)	This session has been removed from the main menu and can now be accessed from the Order Inspections session (qmptc1120m000).
Storage Inspections History (qmptc3502m000)	This session has been removed from the main menu and can now be accessed from the Storage Inspections session (qmptc2120m000).
NCR History	This session has been removed from the main menu and can now be accessed from the NCR session (qmncm1100m000).
CAP History	This session has been removed from the main menu and can now be accessed from the CAP session (qmcpl1100m000).
Export Inspection Data (qmptc1290m000)	This session has been removed from the main menu and can now be accessed from the Reference menu of the Item Analysis (qmptc1117m000).
CAP Task history (qmcpl3505m000)	This session has been removed from the main menu and can now be accessed from the reference menu of the CAP Tasks session (qmcpl1505m000).

## People

Session	Improvement
Employee 360 (bpmdm0101m100)	<p>Part of the data in the header of the 360 session has been reorganized. The fields Overtime Present and Employment have been added to the grid. For the employee selected:</p> <ul style="list-style-type: none"> <li>the Mobile or Cell phone number is displayed as part of a group Communication that also displays the Office phone number and the e-mail address</li> </ul>

	<ul style="list-style-type: none"><li>• The Address Name is displayed</li><li>• The Picture is displayed</li></ul> <p><b>Note:</b> Adding or removing a picture is part of the Employee Common session.</p>
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- The Address Name is displayed

- The Picture is displayed

**Note:** Adding or removing a picture is part of the Employee Common session.