



# Infor LN Release Notes

Release 10.6

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## About this document

This document provides information about the enhancements and changes in LN 10.6 compared to release 10.5.

## Related documents

To access the documents for this release, go to Documentation Central at [docs.infor.com](https://docs.infor.com) and select the link for Infor LN 10.6.

## Contacting Infor

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## Application Configuration and Personalization

### Company Coloring

To easily identify the company assigned to a user, it is possible to assign a color to the companies that are used. The color can be assigned, for a specific company, in the Companies (ttaad1100m000) session. The assigned colors are also displayed in the Change Company (ttask2007m000) session. Note: This feature is only applicable for the LN UI 12.0.

### Save Column Width for Gantt Charts

In LN/Xi UI, when you close the Gantt session, the column width is saved as a personalization. The columns are displayed based on the personalized width when you restart the session. You can use the 'Reset Columns' option from the Views menu to restore the columns to the default width.

### Copy Conditional Formatting and Filters across Users and Roles

The Copy Filters and Formats (ttadv9293m000) session is introduced that allows copying conditional formatting definitions and filters across users and roles. This session is available as 'Action' menu in:

- Conditional Formatting (ttadv9502m000) in the session personalization menu
- Filters (ttadv9593m000) in the session Filter menu

### Default Values in Personalization for Print/Processing Sessions

The use of Default Field Values helps prevent mistakes or limit ranges. Default Values can be added to the Personalization of Print/Processing sessions. In the Personalization Workbench, an admin user can specify the fields for which the default values are applicable.

The default values in a Personalization take precedence over LN Application defaults and User Defaults. Two options are added to the Personalization menu of a Print/Processing session:

- Save Defaults to Personalization to add the field values as default values to the session's personalization.

- Clear Defaults from Personalization to remove the default values from the session's personalization.

## Improvements on Enum Domain Formatting Session

The Enum Domain Formatting (ttgfd4525m000) session is extended with an extra field (Constant) containing the constant value of the enumerate. Sorting is possible on the constant value.

## Alert Icon Filtering

You can define conditional formatting with the row icons on an overview session. If you do so, a filter possibility on the row icons is displayed in the header of the grid of the overview session. If you select an icon in the alert filter control, only those records that meet the conditions of the selected row (alert) icon are displayed. The row alert filter control displays all the icons for which conditions have been defined for the session, irrespective of the records available.

## Time / Duration Field

A new field type "Time/Duration" is introduced. Based on the form definition, the Duration field is displayed with days/hours/minutes/sec or with the days/hours/minutes units.

## Personalization Workbench - Flexible Form Layout

To enable customers to tailor sessions to their requirements, the Personalization Workbench (Personalize Form) provides commands to perform these actions:

- Add new tabs - Add Tab
- Add new groups - Add Group
- Change the number of columns on a tab – Groups in Row
- Change the position of a group – Next to other group
- Change the appearance of a group – Label, Text Color, Text Style

Note: LN UI 12.0.5 or later is required.

## Personalization Workbench - Show Label Codes

The Actions menu in the Fields pane in the Personalization Workbench contains the Show Label Codes command. The availability of this command depends on the LN user's user data template: the command is available if the Show Label Codes in Form Personalization check box in the template is selected. See the online help of the User Data Template (ttams1110m000) session.

Note: LN UI 12.0.5 or later is required.

## Overwrite Existing User Personalizations

The Copy to Other Personalization Level (ttadv9200s000) session is extended with the Overwrite User Personalizations check box. If this check box is selected, the personalizations of the users that are linked to the Copy To level are deleted during the copy operation.

The Overwrite User Personalizations check box is only available for these Copy To levels:

- Role - the personalizations of the users that are linked to this UI role are deleted.
- DEM Role - only if Enhanced AMS is activated and Support Export of DEM Roles to AMS is enabled in the AMS Parameters (ttams0100m000) session. In this case the personalization of the users that are linked to the DEM role is deleted.
- Company - the personalization of the users that are linked to the company are deleted.

## Disable All Personalizations

In the Manage Personalizations (ttadv9150m000) session, an option has been added to disable personalizations, filters, and conditional formatting per user.

## Remove Menu Personalizations

The Revert to Saved command in the Personalize Menu (ttadv9205m000) session has been replaced by the Remove Personalizations command in the Actions menu.

## Show Personalization Information for Sessions

Additional information has been added to the Properties (tttdksession) session. You can start this session by pressing **Ctrl+Shift+8** in a session.

The additional information shows whether personalizations and extensions are active for the session.

## Toolbar Personalization Improvements

The toolbar personalization for sessions has these enhancements:

- Personalizations for toolbar buttons, menus, and menu items are fully integrated.
- You can add every menu item to the toolbar.
- Buttons and menu items can be displayed as text, icon, or both.
- Buttons and menu items can be colored.
- You can create personalized menus by adding new menus and rearranging the menu items.
- Shortcut menus are updated with the personalized visibility and description.

## Report Personalization

### Report Designer

A new Report Designer session is available to personalize reports. In the Report Designer, users can perform these actions:

- Modify existing report layouts, and change the properties of report fields and labels.
- Add company logos, bar codes, and images to the report.
- Add layouts to the report without customizing the report.

You can store report personalizations on user level and on company level.

### Export and Import Report Personalizations

The Export Configuration Data (ttaad7201m000) and Import Configuration Data (ttaad7202m000) sessions have been extended with report personalizations. To export report personalizations, you must select the Report Personalizations check box. If the Specific Selection check box is selected, the Report window is available. In this window, you can specify a range of reports and the report personalization levels for which to export the report personalizations.

### Copy Report Personalizations to Other Level

The Copy to other Personalization Level (ttadv9200s000) session supports report personalizations. To copy report personalizations, you must select the Report Personalization Range group. This enables the Package and Report fields where you can specify a range of reports for which to copy the report personalizations.

## Microsoft Excel Integration

### Import Full Table

The Import from Excel functionality now includes a new 'Import only in this View' check box. By default, this check box is selected. Therefore, when records are imported from Excel, the records are displayed in the View that is currently active (applicable to 'type 3' sessions: multi-occurrence with view fields). If this check box is cleared, records that are imported can be displayed in a different view.

### Option to Create Separate Columns for Date and Time

The 'Export to Excel' check box is added to the 'Separate Date and Time Fields' functionality. If this check box is selected, each UTC Date/Time field is split into a separate Date and Time column in the excel sheet.

## Import from Excel

The file upload control is now integrated in the Import session.

**Note:** LN UI 12.0.4 or later is required.

## Chapter 2 Common

# 2

This chapter provides a brief explanation of the new and modified enhancements that are applicable across all the LN packages.

### GDPR Anonymization

On 25 May 2018, the new EU General Data Protection Regulation (GDPR) is enforced. This regulation intends to unify and strengthen the data protection of all individuals in the EU.

A person will obtain more rights about personal data, such as:

- Right to be informed
- Right to object
- Right of access, rectification
- Right of portability
- Right of erasure
- Right to restrict

Any organization should comply with the GDPR.

In LN, it can be required to erase the name and details of a natural person. Consequently, the data about natural people can now be anonymized in LN. Anonymization can be initiated by the person involved, or by someone else. Anonymization can be performed one by one only; no batch process is available.

Anonymization applies to data elements such as employees, contacts, and business partners. The anonymized data includes information such as names, personal codes, mail addresses, and login codes.

You can enable the new anonymization functionality in the COM Parameters (tcom0000s000) session. If the functionality is enabled, an Anonymize option is available in various sessions.

Infor LN's regular authorization applies to the Anonymization functionality.

### User Authorization

#### Enhanced Authorization Management System (AMS) and Integration with DEM

New functionality has been introduced to improve the process of:

- Defining roles
- Modelling session/database authorizations
- Assigning roles to users.

The enhanced AMS sessions are no longer used to display each level of authorization (session, table, table field, Library - dll) in separate sessions, but are displayed in a single view. This allows for easy filtering and export to excel, but more importantly, all the authorizations for a role are displayed in a single view. Based on the activation of the relevant parameter, the new enhanced AMS sessions are displayed on the Authorization Management System menu.

New functionality has also been added to DEM to ensure that roles are exported with the specified authorization to AMS. Only, the data that is specifically set up in DEM is exported to AMS.

After the export, AMS can be used to adjust the authorizations and role assignments, as required. You can also easily filter and view the changes made to the DEM authorizations in AMS. When this option is enabled, using the relevant parameter, the changes in the DEM processes are set to Active only after the export to AMS and the runtime conversion is executed.

During the runtime, DEM and AMS work synchronously. AMS provides the hard boundaries of authorization, DEM is used to further refine the authorizations, but only if the DEM authorizations are more restrictive.

This reduces the time to set up authorizations in DEM as extensive time is not required to define 'Sub-application modeling'. This also solves a number of issues regarding DEM and security audits. You can now use the enhanced AMS sessions to report the authorizations for the audit and ensure that data that is reported is authorized. This authorization can also be published to Infor Risk & Compliance, which improves the LN-Infor Risk & Compliance integration.

## DEM Bookmarks Support

Users can create bookmarks for sessions started through a DEM process. A DEM bookmark for a session contains both session information and DEM context. When a user starts a session through the DEM bookmark, the session is started with the DEM context of that bookmark.

## DEM Favorites Support

Users can create favorites of DEM menu items. A session started through a DEM favorite is started in the logistic/financial or base company. If a session cannot be started because of insufficient permissions, for example, a warning is displayed.

## Data Authorization

This existing functionality offers various options for data authorization and ensures that an employee only works with the data for which authorizations are provided. An added advantage is that only data that an employee is authorized to access is displayed. Consequently, this ensures that employees only review data that is required.

This functionality already covers a major part of the LN processes such as Requisitions, Procurement, Sales, Project, and Contract Management. The (session) authorization options that Tools and DEM provide are extended to define the data access levels of employees, based on

the relevant attributes of the object. The functionality is more applicable for the business community. The focus is on employees rather than users.

## Adoption Authorization and Security

Authorization and Security functionality has been extended to include new documents that can be authorized. In addition, there are areas which adopted the new and existing documents and master data.

## Production

These objects are now applicable in Planning:

- Work Centers
- Project (PCS) (in the item selection)
- Item
- Warehouse
- Project

## Service

Using the Authorization and Security functionality for Service permissions, these objects can be authorized:

- Service Contracts
- Contract Quotes
- Service Orders
- Service Quotes
- Maintenance Sales Orders
- Maintenance Sales Quotes
- Service Calls
- Customer Claims
- Supplier Claims
- Work Orders

The authorization for these objects has been extended to all areas in Service except Mobile Field Service.

## People

These authorization objects have been added to Hours Accounting:



- Work Centers
- Work Cells
- Project (PCS)
- Service Orders
- Work Orders

## Finance (GLD, ACR, FAM and FST)

In this release, using the authorization and security functionality for Finance Permissions, these objects can be authorized:

- Transaction Types
- Dimensions
- Ledger Accounts
- GL-Code
- Bank Relation
- Budget (FBS)
- Financial Statement

The authorization for these objects have been extended to the sessions for General Ledger, Accounts Payable, Fixed Assets, Financial Budget System and Financial Statements.

## Service

In this release, a new service authorization object Installation Group has been added and these existing objects are added to the Service sessions, except for Mobile Field Service:

- Business Partner
- Warehouse
- Item

## Quality Management

In this release, the authorization for these existing objects is added to the Quality Management sessions:

- Item
- Warehouse
- Work Center
- Business Partner
- Sales Orders
- Purchase Orders
- Project
- Contract (TP)

## Order Management

In this release, the authorization for the Warehouse object has been added to the Order Management Sessions.

## Resource Management

### Job Shop

Resource planning, that was available for Service and Project, is also now available for Job Shop (Operations) and Project/PCS (activities).

### Enable Resource Planning per Origin

Based on the origin, the planning step in Resource Management can be switched off. This option is introduced because planning capabilities can be based on several origins.

### Resource Management Workbench - Support Job Shop and Project/PCS

Apart from Service orders and Project activities, orders from Job Shop and Project/PCS (activities) are available in the workbench. Using a new parameter, it is now possible to define if the workbench can be used to (re-)plan the activities with different origins.

### Assign Multiple Resources and Skills to QM Objects

It will now be possible to assign multiple resources and skills to QM Objects, if Resource Management functionality is implemented

## Pricing

### Price Stages

A price stage is a categorization of the price based on the phase in the price negotiation process. Using Price stages companies, you can negotiate the price while continuing the order process with a restriction on the activities that must be performed. This ensures that a price on an Order line such as Purchase Order Line or Sales Order line can be identified as not fully negotiated. When a price negotiation is not complete, certain actions (based on the price stage) must not be allowed.

For Purchase, a Price Stage can be blocked during:

- Order Entry

- 
- Release to Warehousing
  - Receipt of a line.

For Sales, a Price Stage can be blocked during:

- Order Entry
- Release to Warehousing
- Confirming a shipment.

The blocking definition can be used to block and signal, or just block, or just signal a user of the price stage. Based on the type objects in LN, price stages can be optional or mandatory. The list of the parameter sessions to ensure that Price Stages are mandatory:

- Sales Quotations (tdsls0100s100)
- Sales Orders (tdsls0100s400)
- Request for Quotation (tdpur0100m100)
- Purchase Orders (tdpur0100m400)
- Purchase Contracts (tdpur0100m300)
- Contract Parameters (tpctm0100m000)

The list of objects for which Price Stages can be used:

- Sales Quotations Lines
- Sales Order Lines
- Request for Quotation Lines
- Purchase Order Lines
- Purchase Contract Lines
- Contract Deliverables (Project)
- Price Books
- Landed Costs Revisions

When defining a price book, the price stage can be specified to identify the price negotiation phase. The process used to default the price for an order line, is also applicable for a price stage in a price book.

A price stage can also be defined during the creation of landed cost revisions. When the landed costs are added to an order line, the price stage is also added. If the landed cost price stage has more restrictions than the order line price stage, the price stage with the most restrictions is considered for blocking/signaling. Note: The Blocking functionality is not applicable for Contract Deliverables.

## Global Trade Compliance

### Letter of Credit

Letter of Credit is a written payment instrument that plays a critical role in trade. These documents are issued by banks at the request of the customers (the buyers). The bank promises

to pay the supplier (the seller) for the goods or services provided in case the seller meets all the terms and conditions and submits all the documents stipulated in the Letter of Credit. In this way, the Letter of Credit helps companies to eliminate risks. For the supplier, the Letter of Credit gives a high level of certainty that he gets paid for the goods and services delivered. For the buyer, the Letter of Credit ensures that the supplier payment is processed, only if all the terms and conditions stipulated have been met.

To facilitate trade transactions for which Letters of Credit are used, the Global Trade and Compliancy module in Infor LN has been extended. Effectively, from the buyer's and the seller's perspective, different kinds of Letters of Credits (Import, Export, Domestic) can be set up and maintained and all necessary activities during the lifecycle of a letter of credit can be handled.

You can now link Sales Order (lines), Purchase Order (lines) and Contract (lines) to a Letter of Credit and process the same in accordance with the conditions stated in the linked Letter of Credit.

Since linking an order or order line, (restricted to specific status of the Letter of Credit) consumes the Letter of Credit amount, the availability of the remaining amount is an important aspect for further processing. In addition, LN can be setup in a way that enables employees with sufficient authorization limit to approve the different types of Letters of Credit and change the status.

## Intercompany Trade

### Intercompany Trade on Purchasing

In Central Purchasing, a central purchase office creates a purchase order or purchase schedule for a warehouse assigned to another financial entity, for example, another legal entity or business unit. This implies that the supplier is paid by the purchase office, but the received goods are owned by the warehouse. This transaction can result in financial transactions between the financial companies.

In LN 10.5, this process was supported using an intercompany trade order with a transfer pricing rule as a commercial price or a price based on the purchase price. Optionally, an internal invoice could also be used for this process.

To enhance this functionality, a new External Material Delivery Purchase intercompany trade scenario has been added. This scenario can be applicable in these cases:

- Purchase order receipt for a warehouse
- Direct Purchase order receipt on a project
- Purchase order receipt on a subcontracting order (including service subcontracting)
- Purchase schedules
- Service Supplier Claims
- Return process

## Item Management

### Item type 'Product'

A new item type Product is introduced in this release. To manage site-specific sourcing possibilities, the item type Purchased and Manufactured is merged into the new item type Product.

### Supply Source

With the introduction of the item type Product, in this release, item procurement is no longer defined in the item type. It is defined in the (actual) supply source.

### Item Defaults

With the merging of the two item types, the item defaults are also merged. To support this, two new sessions are added; to enable the copying of item defaults, and copy an item group and related data.

### Activation Parameter

The merging of the item type requires specific user interaction. Instead of an automatic conversion, the merge can be performed with an intermediary step, namely, the "preparation phase". In this phase, users can correct, complete and validate the existing master data. When the preparation is completed, the parameter can be set to 'active', which makes the item type 'product' effective in the system.

## Multisite

### Multisite Model Based on One Logistical Data Set

Many enterprises operate on multiple locations. Such enterprises might have production facilities at various locations and sales and warehousing activities at others. Therefore, it is required to support the common business processes, using common definitions of data such as items, suppliers and customers, but also to consider the differences between the locations. For example, there will be differences in business processes (e.g. with respect to back flushing of materials), and differences in data (e.g. items with different standard cost depending on the location and business unit).

The main objective of the new multisite functionality is to support these functions:

- Business Unit Accounting

Within one enterprise, multiple business units on multiple locations can be active. Financial reporting at business unit level requires amongst others standard costs by business unit and intercompany trade between business units.

- Local processes using local data

Local processes require the possibility to specify local data. For example, it is required to specify a local supplier with a local purchase price.

Consequently, in Infor LN 10.6, these functions are supported within one logistic company:

- Setup of a Site
- Local Item Management
- Standard Cost by Enterprise Unit
- Local Business Partner Data
- Local Settings

## Setup of a Site

A site is a physical location at which multiple activities for multiple business units can take place. Between sites, there can be differences in processes and data such as a commodity code and prices. To support this, in LN 10.6, a site can be specified. Data such as warehouses, departments, assembly lines and service locations are linked to a site.

## Local Item Management

Within a multisite enterprise, the same item can be used at multiple sites by multiple departments. This means that key characteristics such as the item code and the type of item are the same across all these departments. However, several other attributes such as the country of origin, the commodity code, the supply source, the supplier, whether purchase schedules should be used, and the sales unit, can differ between sites and offices.

In LN 10.6, you can specify the different item characteristics for each site and department on the different domains such as production, sales, service and procurement.

## Standard Cost by Enterprise Unit

For correct financial reporting for a business unit, the standard cost must be based on the costs for a particular item for that business unit. In LN 10.6, the standard cost can be calculated by enterprise unit, based on local costs. The cost source, such as purchase or job shop can differ by enterprise unit, along with the associated data such as the supplier and purchase price, the operation rates, and the standard cost. If an item is produced or purchased by one enterprise unit and sold to another enterprise unit, the standard cost in the receiving enterprise unit is based on the intercompany transfer price.

When management accounting is done at site level, one enterprise unit can be set up for only one site. Within a site, there can be multiple business units, for example for production, sales or for different product lines. When management accounting is done at business unit-level,

represented by enterprise units, multiple enterprise units belong to a site. Between these business units, intercompany trade can take place, resulting in different standard cost.

An enterprise unit can also be set up for a legal entity. A legal entity can include multiple sites, but management accounting can be on legal entity-level only. Consequently, one standard cost at legal entity-level is required and therefore also one enterprise unit.

The introduction of the standard cost per enterprise unit is not done during the migration because it is not possible to design an unambiguous transition script. The migration depends on how the customer has modelled its business.

Therefore, a parameter has been introduced to support the implementation of standard cost by enterprise unit at various stages. To implement standard cost by enterprise unit:

- Start the preparation phase for the new standard cost by enterprise unit
  - Define all required data and validate the results
  - Update all applicable procedures, work instructions and authorizations
- At a point in time, activate the functionality
  - Generate all required master data based on the defined setup data
  - Calculate the standard cost per operating unit
  - Revalue inventory
- Continue working

## Local Business Partner Data

Different offices and different sites can work with the same customers and suppliers, but there can be differences between these offices and sites. For example, for one office, self-billing is used, or the carrier and the delivery terms differ per site. To support this, Sold-to and Buy-from data can be specified by office and Ship-from and Ship-to data can be specified by site.

## Local Settings

Business processes can also differ between sites and offices. For example, the series, the production order documents, the way to deal with backflushing, backorders, or commitment can differ. Therefore, several settings, including domain specific settings can be specified by site or department.

If local data has been set up, this data is used during the transaction processes such as the purchase order process and the production process.

## Costing

### Standard Cost Components

To accommodate the multi-site enhancements, the structure of the standard cost has been modified. The enhanced functionality includes:

- The cost type 'General', which has been made visible.
- The difference between the cost component types Detail, Collect and Aggregate has been made more clear.
- Defining the costing scheme, which is now mandatory.
- A costing scheme set up. When a scheme is created, the same is checked for consistency and completeness.
- The costing settings in the operation rates, which have been moved to the new 'Cost component sub type' field in the cost component.

It is recommended to evaluate the migrated scheme. This can be done after the migration. Note: There are no changes in the bookings and in the cost price calculation.



## Chapter 3 Procurement

# 3

This chapter provides a brief explanation of the Procurement related enhancement included in this release.

### Purchase Orders, Contracts, and Schedules

#### Change Requests

A change request document includes a proposal for the adjustment of an actual document such as a Purchase Order or Purchase Contract. The change request is copied from, and linked to the actual document.

Changes for the actual document are effective only after the change request is approved and processed. After the approval, the original document revision number is increased by 1.

The use of Change Requests allows for revision numbering on a Purchase Order or a Purchase Contract. A change request can be internal when only limited fields can be changed and the revision number of the Purchase Order does not increase.

The use of the Change Request functionality can be enabled for each document type. The parameter for Change orders on Purchase orders can be specified in the Purchase Order Parameter session; and the parameter for Change orders on Purchase Contracts can be specified in the Purchase Contracts Parameters session.

#### Purchase Retro-Billing

If price changes are required for a purchase contract after the negotiation date, the Retro-billing functionality can be used to pay or get a credit for previously paid items of the Purchase Orders and Schedules.

New parameters are introduced in the Procurement Parameters (tdpur0100m000) session to enable Retro-Billing. Price differences are handled by adding new payable receipts to existing orders or schedules.

The existing orders and schedules must be fully matched/approved and the delivery process must be performed.

Retro-billing can be initiated from a purchase contract or using the new Generate Retro-billed Price Change Advice (tdpur3570m000) session. After the advice is created, the same must be approved and processed. This creates new payable receipts for the existing order line or schedules. The new payable receipts can be used to match/approve the retro-active lines.

## Update of Shipped CUMs

In this release, the accuracy of the Shipped CUM data has been improved. The accuracy of this data depends on the ASN being sent by the supplier, or the user linking the appropriate ASN to the warehouse receipt line. Any discrepancy in the linking can lead to inaccurate Shipped CUM data.

A new parameter is introduced to update the shipped CUM for goods receipts that have no matching Advance Shipment Notice (ASN) or for which the ASN is not linked. The shipped CUM is updated with the received quantity. This parameter is added to the existing Purchase Schedules parameters. The functionality is applicable to the new purchase schedules if the parameter is selected.

## Sales Dependent Purchase Price in a Consignment Scenario

In a consignment scenario, the delivered items are still owned by the supplier and the customer pays the supplier when the goods are used. The actual purchase price can be the price at the moment of replenishment or at the moment of use. In some scenarios, however, the customer is an intermediary between the end customer and the supplier. The customer only stores the goods and does not have to make any profit. In this scenario, the purchase price that the customer pays to the supplier is equal to the sales price for which the customer sells the goods. This scenario is supported from the customer's side.

## Target price

A target price is calculated based on the search outcome of prices for an item. The target price is displayed alongside the actual prices that are used in Procurement. This allows procurement management to judge the price-negotiating capabilities of buyers for an item, independent of supplier or quantity.

## Procurement Parameters

To support target price, a new parameter has been added to the **Procurement parameters**. If target price is implemented, you can set up the related **Pricing parameters**.

## Pricing Parameters

In the **Pricing parameters**, you can specify various target price parameters. For example, you can specify these parameters:

- A series for target price books.
- A default search path for calculation of a target price.
- The status a specific object must have to be included in the calculation of a target price. For example, you can specify that only Requests for Quotation (RFQs) with the **Responded** and **Accepted** status are included.

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## Pricing

A new **Calculate Target Prices (tdpcg0233m100)** session has been introduced to calculate a target price based on searches in one or more of these procurement objects:

- Contracts (Normal and Special)
- Requests for Quotation
- Purchase Orders
- Procurement Price Books
- Item Purchase Data
- Item Simulated Purchase Price

The search is based on the pricing parameter defaults, or you can change the search path to fit individual scenarios. For each purchase object, you can search for a lowest price or most recent price. Purchase orders have an additional option to search for an average price across various purchase orders, with options to calculate the average.

The calculate session uses several selection criteria to find a target price for the range of items identified. After a price has been identified at a level for an item, that price is captured and the search stops. If a purchase order price and an RFQ price have both been identified, you can compare the purchase order price and RFQ price to find the lowest price of the two sources.

Searching the transactional data can be based on actual data or data in the history tables. After running the calculate session, a target price book is created or updated. The target price book is used to retrieve a value for the new **Target Price** field on Contract Lines, RFQ lines, and Purchase Order Lines. The purpose of the **Target Price** field is to give procurement departments insight into what is the lowest price for an item and to verify that they buy that item against the best price.

Target prices can be adjusted by a positive or negative percentage or amount. This helps buyers to negotiate the best prices.

On the RFQ and purchase order lines, you can specify that you want to exclude specific lines from the target price calculation. For example, because of a very high or low price on the line.

## Target Price Books

A target price book is a new type of price book that is created to store target price information. This information is stored in a target price book:

- The price retrieved for an item
- The origin, such as purchase contract and line
- The date and time the calculate session was run to find the price

Target price books can be specified in the pricing parameters as default price books. You can link a specific target price book to an RFQ header to help negotiate for a lower price.

## Cost Items and Mandatory Project Pegs

A new Procurement parameter called **General Ledger Codes Mandatory** has been introduced. The parameter prevents users from entering a GL Code or GL account (based on purchase parameters) when a cost item has a project peg on the purchase order or requisition line. In addition, when selected, the parameter makes adding a GL Code or GL Account mandatory for

non-project pegged cost items. This only applies in a project peg enabled environment. The functionality works with the existing parameter about cost items without warehousing requiring project pegs.

## Requests for Quotation

Two new Request for Quotation (RFQ) parameters improve RFQ functionality and allow integration with external solutions such as Supplier Exchange.

The new **Enhanced Line Handling** parameter allows RFQ lines to have the same total/detail logic as Purchase Order Lines. The parameter also allows adding to an existing RFQ from sources such as a Requisition, Enterprise Planning and Project (TP).

In certain business cases, it must be possible to ask for pricing of an item from a supplier/bidder and the item and Manufacturer Part Number. A new **Alternatives** tab has been added to RFQs to allow modeling of item and MPN combinations to request pricing and timing from bidders. In addition, a new **Response Preparation** tab enables review of what Item and item MPN combinations must be sent to bidders.

New fields to send to bidder's information such as **Conformance Reporting** and **First Article Inspection** have been added. New fields have been added to the response lines to capture item information such as whether the item includes a warranty, whether this is the last time a bidder plans to sell the item, and order increment and supply time information for this item and bidder combination.

The second new parameter is **External Integration**. If this parameter is selected, the RFQ BOD is published to Supplier Exchange when the RFQ is printed. Next, the RFQ responses are expected to be returned from Supplier Exchange. A new **Pending Response** status indicates that an external solution such as Supplier Exchange is being used to provide the collaboration experience for the bidders and buyers to conclude the final negotiated prices and terms. Supplier Exchange notifies bidders that new RFQs or response lines are waiting for pricing. When the negotiations are complete, Supplier Exchange sends the final negotiated prices, or no bid, or no response information. In LN, the final comparison and award is done by the buyer. When the award or rejection of one or more RFQ response lines in LN is complete, this is passed to Supplier Exchange. Supplier Exchange notifies bidders of the win and losses.

A new feature has been added for RFQs called RFQ type. An RFQ type includes the default data for an RFQ, such as the used RFQ series, Reminder Status, Document Set, Question Set, Display Set, and Negotiation Type.

The new **Negotiation Type** field determines how RFQ responses are handled. The negotiation type can be set to these values:

- **Traditional**
- **Reverse Auction**
- **Sealed Bid**

**Reverse Auction** requires the first bidder's response to be considered against all other bidders' responses. Each response entered after the first is compared to the first and, if the response price is not lower than the previous bidder's, it cannot be saved. The lowest bidder across all bidder responses is the winner.

**Sealed Bid** allows comparison only once all bids are entered and the response date has been met or exceeded. This limits any comparison until all responses are complete.

A new module, called Business Communication, has been created in Common. The module contains documents and document sets, questions and question sets and display sets.

A document set is a group of documents that are used for RFQ negotiations to let the bidder know they must provide specific documents in addition to pricing information. For example, to demonstrate that they are ISO Certified or to prove they meet quality and operational standards expected by the buyer.

A question set is a group of questions the bidders must answer in support of their response. These are user definable data elements.

A display set indicates whether certain fields such as target price or subject to trade compliance are displayed to the bidder. This is particularly relevant when working with an external solution.

## Chapter 4 Sales

# 4

This chapter provides a brief explanation of the Sales related enhancement included in this release.

### Consignment Consumption

A new Sales Order Actual Delivery Consumption (tdsls4106m200) session has been introduced to track the consigned inventory and the quantity consumed. The session lists the inventory that is delivered as consigned, the quantity to be consumed and the quantity that has been consumed. In addition, the Actual Delivery tab on the Sales Order (tdsls4100m900) session includes new fields that display the quantity of the consigned inventory that is consumed.

### After Sales Service

The Sales Orders functionality has been enhanced to allow interactive or automatic processing to create Item Serial Service data with the applicable warranty template. After an item for which item service data is defined and the Process to Service after Delivery check box is selected in the Items – Service (tsmdm2100m000 session is delivered to the customer, the new After Sales Service functionality is available on the sales order header or sales order line.

This session can be used to modify the defaults such as the type of warranty that is applicable for the sold item. Additionally, a service contract template can be assigned to create a Service contract for other aftermarket tasks such as preventative maintenance or additional service covered over and above the warranty terms.

A new Process After Sales Service Lines (tstdm2250m000) activity session has been added to support and automate the process of creating Service structures.

### Copy Component Lines

In 10.5.1, the Component Lines option has been introduced for the Copy Templates functionality. If this option is selected, LN copies the original sales order line components to the target sales order line. If the Component Lines option is not specified in the template, LN retrieves the defaults from the BOM. For example:

Kitting Sales Order Line with a Main Item X100 includes three components (one pcs of X100a, two pcs of X100b, and three pcs of X100c defined in the manufacturing BOM). Entering the Sales Order Line for item X100 with handling flags of issue components and component lines, for quantity of 1 pcs creates the sales order line components (one pcs of X100a, two pcs of X100b and three pcs of X100c). The sales order line components can be modified by removing an item, changing the quantity, or adding a new component such as X100d for 1 pcs. After the modifications, the sales order line components session includes one pcs of X100a, two pcs of

X100b, and one pcs of X100d. When copying this sales order line using a copy template, without the components lines option selected, the original BOM components (one pcs of X100a, two pcs of X100b, and three pcs of X100c) is assigned to the new sales order line. When copying this sales order line with a copy template, with the component lines option selected, the source component lines (one pcs of X100a, two pcs of X100b and one pcs of X100d) are assigned to the new sales order line.

## Chapter 5 Warehouse Management

# 5

This chapter provides a brief explanation of the Warehouse related enhancements included in this release.

### Shipments

#### Shipment Workbench

A new workbench has been introduced to efficiently handle shipments from a warehouse, or possibly multiple warehouses. This is an operational tool for a warehouse employee to process the shipments on the loading dock, and to be able to deal with exceptional situations such as delays, rush orders, and shipping constraints.

The details of the specific shipments are available to workbench operator, for example, the use of lots and serials or handling units and packaging.

The workbench provides an indicator, in case of exceptions, such as partial or late shipments. In addition, shipment overviews are displayed as charts or graphs to support day-to-day shipping operations.

#### Shipment Execution Workbench

The former Automotive Shipment Workbench can also be used for Shipments, where the Order Origin is Sales Order. Before it worked for Order Origin Sales Schedule only.

The following improvements have been made.

- Allow drill back to LN Shipment session (whinh4630m000) from Shipment Details panel
- Extended search capability. Allow to search for a specific shipment which can be outside the current displayed time frame.
- After entering Load information and coming back to the Shipment Detail panel, the screen is updated automatically
- Refresh Button in the Shipment Detail panel updates also the Current Stage information (e.g. somebody performed a scanning transaction in between)
- Allow deleting a complete projected shipment

#### Shipment Planning Workbench

A shipment planner should have a workbench that can be used to find easily the demand where he is responsible for. The general idea of the new Shipment Planning Workbench is to generate Projected Shipments based on Outbound Lines.



The following functions can be triggered directly from the workbench:

- Show outbound lines, which represent the demand that must be shipped
- Lookup the inventory to ensure that the required quantities can be shipped
- Plan shipments based on the selected demand
- Calculate the weight and the number of loading units (these are typically pallets)
- Show the planning results, which are projected shipments
- Undo the shipment planning. If Shipments have the initial status projected, they can still be deleted.

Note: Only the outbound order lines that have the **Order** origin field set to **Sales Schedule** or **Sales** in the Outbound Order Lines (whinh2120m000) session and the corresponding shipments, are displayed in this workbench.

## Pick and Load Sheet

The report Shipment Line Reference Distributions, which was originally designed for Honda and referenced schedules, has been renamed to Pick and Load Sheet. You can now print the Pick and Load sheet also for non-referenced schedules.

## Project Cost Pegging

### Manual Entry of Cost Peg Transfers of Type “Borrow/Loan”

The existing functionality to create ‘non-permanent / temporary’ project cost peg transfers (peg transfers of the type ‘Borrow/Loan’) has been extended.

The entry of a ‘manual’ project cost peg transfer can now result in a peg transfer record of type ‘Borrow/Loan’, which triggers the process of returning/paying back the transferred inventory to the original project cost peg.

Creating a manual cost peg transfer of the type ‘Borrow/Loan’ is now also possible in case ‘excess’ inventory, for which no demand exists, is taken from a project peg.

### Project Pegged Safety Stock

To compensate for deviations between demand (expected and actual) and delivery times on the progress of projects, dedicated safety stock levels can be set.

Instead of defining safety stock levels for each item or combination of item warehouse, which function as anonymous inventory buffers for general use and are not reserved for a particular purpose, dedicated safety stock levels can now be specified for each project peg.

Project-pegged safety stock levels can be specified for a combination of item, warehouse and project/element/activity (peg). This safety stock cannot be consumed to fulfill any demand. In addition, these safety stock levels are also considered by Enterprise Planning for the generation of replenishment advices and orders.

## Warehouse Inspections

### New Procedure to Overrule Quality Management Settings

The setup and implementation of inspection activities in warehouse inbound/receipt procedures has been enhanced.

A new option is provided to explicitly decide whether the inspection step in the Warehouse Order Type must drive the creation of inspections (in Warehousing or QM), regardless of the item-based test settings in the latter. For this purpose, the 'QM (Inspection) Overrides Warehouse Inbound Order Type' check box has been introduced at the warehouse- and item-warehouse level. If this check is cleared, the standard behavior whereby item test settings in QM are leading is overruled by the (non)-existence of inspection steps in the warehousing inbound order procedure. This inspection decision may vary for each combination of the item and the receiving warehouse.

## Kanban

### Kanban Signals & Supply Orders

A new Kanban Signal entity has been introduced. This is a mandatory level that is lower than the previous Kanban ID (which was used to represent the total loop that is displayed as 'Total Supply Quantity'). This Kanban signal (ID) represents a single or multiple Kanban bins or cards. The ID also functions as the trigger for a new Kanban supply order, each time the related Kanban label is scanned.

The (number of) signals attached to a Kanban loop can be monitored, maintained manually, or updated dynamically by recalculating and/or resetting the master data. Depending on the parameter settings, Kanban supply signal IDs for labels or bins can be reused continuously or are used only once. The status of the IDs can be 'Active', 'Inactive', or 'Closed'. To deal with peaks and troughs in demand, active signals can be added to a loop or de-activated. Both actions are temporary and can be reverted. Also, based on the parameter settings, an increase in the number of active signals attached to a loop can trigger the corresponding supply orders, as an alternative to scanning the Kanban labels.

### Average Daily Usage

The calculation of the average daily usage (ADU), which is crucial as an input for Kanban-related calculations, has been enhanced and now also includes an offset date and an option to include 0-production days in the calculation.

### Interactive Kanban Parameter Update

A new interactive overview Global Update of Kanban Parameters(whinh2200m100) session has been added to support the (overall) Kanban parameter update process. When this session is run

in the 'simulate' mode, the user can view and maintain the results and decide which LN generated proposals and calculations must be processed as actual updates.

## Handling Units, Packaging and Shipments

### Virtual Handling Units

In this release, an option is provided to improve the modeling of multi item handling units. When using the handling unit template, it is now possible to model the bottom node as a 'Virtual' node. The virtual node of the handling unit template can be used to model a variable number of bottom level nodes until the quantity for each parent node is met. Therefore, it is now possible to model less package definitions and handling unit templates without taking the ordered quantities into consideration.

### Part Change Tags

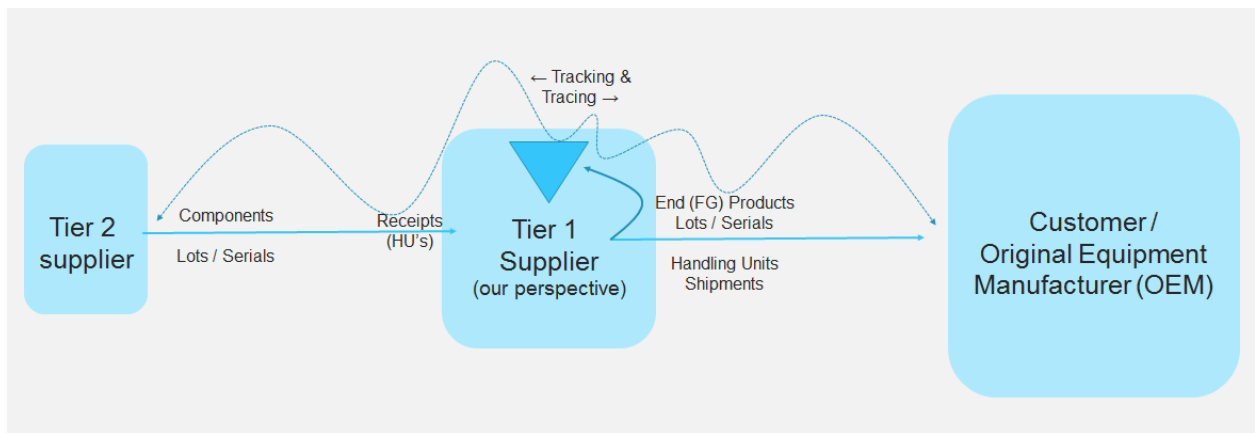
IPP (Initial Production Parts) and Sort Tags are used to notify Honda Quality and Production associates of a part change by a supplier. Depending on the part and supplier, tags may be required many times during a model year. A maximum of two pairs of reason code/trouble report number can be entered on the container level. IPP and Sort Tags must be printed in Master Packing List and must be published in the LIN segment in the ASN.

New attributes are added to the Handling Unit table, using which Part Change tags and reason codes can be specified.

### Tracking & Tracing with Use of Handling Unit- or Shipment IDs

In the automotive business as well as other businesses working with 'logistic units', it is often a handling unit ID or a shipment number that is communicated by a customer as being 'defective' or causing problems. Based on this information, the supplier has to trace the origins to detect the underlying causes / problems and possibly take action by blocking processes or specific item-lot/serial combinations or handling unit contents. Consequently, it is of the utmost importance to be able to quickly and efficiently trace the origin of a problem or to track a defective component, based on the handling unit or the shipment information received.

For example, an (automotive) tier 1 supplier needs to trace a problem/defect regarding goods delivered to a customer / OEM. This customer communicates the handling unit ID concerned, or possibly a shipment number. The content of this handling unit (or shipment number) is tracked back to its production origin to detect the source of the defect/complaint. Another common scenario is when a (tier 2) component supplier reports a defect regarding a particular item / lot (and possibly serial) combination to the customer (a tier 1 supplier). Such a component needs to be traced by the tier 1 supplier to end (FG) items, inventory (handling units) and shipments (shipped handling units) to customers.



To provide capabilities for an efficient tracking/tracing process regarding the contents (lots & serials) of Handling Units or shipments, functionality has been added to the 'Item, Lot and Serial 360' (whltc3600m100) session. This 360 session now also supports a tracking/tracing process based on the input of a handling unit ID or a shipment code (next to lot codes and serial numbers).

## Mandatory Packaging Structure

For a combination of item and sold-to business partner, a specific package definition can be defined in the Item-Sales Business Partner data. To make the packaging structure mandatory, select the Package Definition is Binding check box in the Item-Sales Business Partner data. The package definition is applied to the sales order line or sales schedule and corresponding warehouse order lines. If it is Binding, handling units cannot be repackaged during the picking and staging process if the package definition of the outbound order line does not match the package definition of the picked handling unit. Depending on the differences between the two structures, part of a picked handling unit structure may still be reused. The options Alternative Package Definition and Specific Package Definition, which are available from the shipment line, are disabled when the package definition is binding.

## Packaging Fill-up

New packaging fill-up logic has been implemented to allow / force (automotive) suppliers to ship complete handling unit structures. The logic requires a predefined number of, for example, boxes on a pallet or layer within a pallet, regardless of the item quantity ordered. In practice, this means that the shippable quantity must be adjusted to create a full pallet, or pallet layer, or that empty packaging is added for this purpose. These new features can be activated for each packaging definition or handling unit template.

## Label Printing

When repacking handling units, you can print labels for both the source handling unit and the target handling unit.

## Fill-up Logic During Staging

A new parameter called Fill Up Staged Handling Units with Newly Picked Items has been introduced on warehouse- and item/warehouse-level. This parameter is used to manipulate existing standard behavior of adding newly picked items to handling units on staging locations to complete these structures as much as possible.

## Lots & Serials

### Lot Splitting

The procedure for receiving items into a warehouse has been enhanced with features to divide bulk items into smaller quantities for easier handling and processing:

Firstly, a new Split (Receipt) Line for Lots/Batches option has been implemented. This new option is in the Action menu of the warehouse receipt line. It enables generation of lot codes for each split-off receipt quantity.

Secondly, an option to split lot quantities and generate new lot codes for use in inventory has been implemented. It is available as part of the Use as is or No Fault Found disposition process. This option supports the requirement for items that have been inspected and put to quarantine to be split into smaller batches or lots.

Finally, after put-away, splitting of lot quantities in inventory is now supported. If lot-related inventory is still available, that is, it is not allocated or blocked, then bulk lot quantities can be divided into smaller lots. All information from the originating (bulk) lot is copied to the new lot codes. The original, internal, inventory lot code that was split remains linked to the new lot codes as a reference. If the original manufacturer lot code is available, it is populated in the Business Partner Lot field on each split-off or newly generated internal lot.

## Electronic Data Interchange (EDI)

### Show 864 Text Message on Shipment Line Reference Distributions Report

OEMs such as Honda may send a Text Message (ANSI 864) with the demand. The 864 Text Message is used to provide electronic messages and is linked to the corresponding document by a reference number. This text must be printed on the Honda pick and load sheet.

The text is now printed on the corresponding Shipment Line Reference Distributions Report, which is linked to the Shipment header.

## Intermediate Consignee

Intermediate Consignees (IC) are frequently used in different ways. The three most common scenarios are logistics specialists, redistributors, and re-packagers. This means that the goods are first sent to a shipping location, where the goods are consolidated (intermediate consignee), before being shipped to the final destination.

When suppliers receive the EDI schedules from, for example, OEM plants the suppliers can receive an intermediate consignee code in the EDI file.

Intermediate Consignee functionality is now supported in LN using a new Intermediate Consignee Master Data table, which checks the IC code. The Incoming Intermediate Consignee Code is transferred through the entire LN system and finally stored on the Load that is to be published with the corresponding IC address information.

## Chapter 6 Freight Management

# 6

This chapter provides a brief explanation of the Freight Management related enhancement included in this release.

### Freight Costs

#### Allow Negative Values for Freight Costs

It is now possible to specify a negative **estimated** freight cost amount in the freight cost field in all the sessions. This is also applicable to the **actual** freight cost amounts. Working with negative freight costs, as is customary for many companies, in for example India, will have the necessary impact on the calculation, totaling and manipulation of estimated and actual freight costs on loads and shipments.

### Freight Planning

#### Link Standard Routes and Route Plans to Shipping Office or Planning Group

To limit the number of standard routes and route plans that can be used by a particular combination of shipping office and planning group, a direct link can be established between these two entities. This functionality supports scenarios where, for example, a shipping office is active in specific regions and can only handle transport using a limited number of routes. This new option requires these two new freight planning parameters to be set: 'Route plans by Shipping Office and Planning Group', and 'Standard Routes by Shipping Office and Planning Group'. Selecting one or both of these parameters causes the freight planning run to consider only the standard routes and route plans linked to the shipping office or planning group involved. This improves the performance of the planning engine.

#### Carrier Selection by Standard Route and Route Plan

To limit the number of carriers that can execute a particular standard route or route plan, a direct link can be established between these two entities. A list of carriers or transport means groups can be created that are available for a particular standard route or route plan leg. Consequently, a standard route or route plan can be executed only by a specific carrier or group of carriers. This new option depends on the setting of two new freight planning parameters: 'Carrier TMG/TMC by

Route Plan', and 'Carrier TMG/TMC by Standard Route' If the consolidation or pooling algorithm is used, then selecting one or both of these parameters causes the freight planning run to consider only those carriers that are linked to the applicable routes. This improves the performance of the planning engine because only a subset of the total carrier/TMG combinations is searched.

## Planning by Standard Route / Route Plan

To allow for more specific and less time-consuming planning runs, users can now generate a freight plan for each range of standard routes or route plans. Such a planning run includes only freight order lines that have a specified standard route or route plan assigned. This planning method decreases the runtime of each individual planning run, facilitating an earlier start of subsequent logistic procedures.

To leverage this new functionality a 'pre-planning' option is provided for assigning freight order lines to standard routes or route plans.

A new batch session is available to link standard routes or route plans to freight order lines, based on the addresses involved. This session can be executed before the actual planning run, to speed up the process.

## Binding Planning Algorithm

To manipulate system behavior for freight planning, an algorithm can be made 'Binding'. This prevents the automatic selection of an alternative planning algorithm in case the selected one cannot be applied. Currently the system drops down from pooling to consolidation to direct shipment in such scenarios, but this may not always be desirable. In particular when the freight planning is run by standard route or route plan.

## Planning Log Improvement

To limit the number of remarks in the detailed planning log and to prevent duplication of messages, a new 'combined order' column has been added to the report. This ensures that each message is printed once, which improves both usability and performance of the planning log.

## Change Planned Load/Unload Dates

To support mass updates of planned load / unload dates on the freight order lines, the existing session 'Change Planned Load/Unload Date' (fmfoc2201m000) can be started as a stand-alone batch process. Planned load and unload dates can be updated as well as the tolerances for all freight order lines but also more specifically for ranges of shipping office, planning group, route plan, status, etc.

## Freight Plan Board Enhancements

Within the freight management plan board (fmlbd0215m000) session, three features have been added to enhance usability:



### Plan Board Startup View

To the pane containing the load/shipment tree the 'Customize Startup View' option has been added to set and freeze the levels displayed at initial startup of a tree. These options are available:

- Plan
- Load
- Shipment
- Shipment Line
- Shipment Line BOM

### Maintaining Loads and Shipments

New options make it possible to move loads, shipments and shipment lines across shipping offices and planning groups. In addition, a load or shipment (line) can now be moved to a different plan.

### Capacity Utilization Filter

Within the load/shipment tree a new feature is available to support the evaluation of loads and the usage of transport capacity. To allow for decisions to postpone or restructure a load, an option is provided to filter out loads based on capacity utilization, based on a user-defined percentage.

## Freight Subcontracting (Order Clustering)

### Generate Order Clusters for Committed Inventory Only

To support the generation of freight order clusters for committed inventory only - a function that is already available for the planning run - a new option 'Cluster with Committed Inventory Only' has been added. The main purpose of this feature is to avoid the creation of transport subcontracting orders concerning inventory that is not available.

### Generate/Cancel Inventory Commitments for Freight Order Clusters

It is now possible to generate inventory commitments for freight order clusters, as it currently is for orders, loads and shipments. The purpose of this feature is to make sure that inventory is available for shipping when the actual subcontracting is done. Inventory commitments can be cancelled if required.

### Clustering by Address

The session for generating freight order clusters has been enhanced with an option to combine freight order lines into a single cluster, if the ship-from and ship-addresses are identical. Consequently, several existing standard clustering criteria are ignored. In particular, customers that have more than one warehouse, which is a standard clustering criterion, linked to a single address require that transports from such warehouses are combined for subcontracting.

Clustering criteria such as carrier and delivery terms are still considered when combining freight order lines.

## Outbound Advice by Cluster

The sessions for creating and handling outbound advices have been enriched with a freight order cluster – related selection option. You can now generate, release and process outbound advices for single or multiple freight order clusters. This is similar to the option that already existed for a load. An additional constraint has been added to this process to ensure that the advised quantity never exceeds the ordered quantity registered on the freight order cluster line.

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## Chapter 7 Project

7

### Contracts

#### Remove Contract Information when status is 'Free'

Information for contracts and contract lines with status Free can easily be deleted using the new Delete option in the Contract sessions. Related objects such as installments and deliverables can also be deleted.

#### Archive Contracts

Contract history can be included in the archiving procedures.

#### Revert Contract Line Status

The status of the contract or contract line can be reverted from Closed to Active.

#### Price Stages

As mentioned in Chapter 2, price stages have been added for contract deliverables. Therefore, a price on a line can now be identified as not fully negotiated.

#### Conformance Documentation on Contract Deliverable

An option for conformance documentation has been added. The functionality is like the functionality that was introduced in Infor LN 10.4 within the Procurement domain.

#### Contract Deliverable - Letter of Credit

As part of Global Trade Compliance, the presence and status of letters of credit for project contract deliverables can be established. The Document Compliance status is now considered for global trade compliance and/or the letter of credit for the results of the internal and external compliance checks for the documents. The check results cannot be created or modified manually. However, authorized users can override the failure results manually.

## Option to Allow for Advance Payments on an Active Contract

You can now change the Advance Payment option from No to By Contract Line, on contracts that are active. The option setting is used as a default for new contract lines.

## Contract Deliverable - Discount

The contract deliverable as part of Delivery based contracts now includes a discount percentage and amount. Percentage and amount both result in a discount amount but are mutually exclusive.

A Selling tab has been added with Price and Discount details. The Discount Origin is also displayed. The Sales Line Discount setup used.

It is suited to handle only one discount level and therefore best not to use Multiple Discount Levels as part of the Pricing Parameters.

## Contract Line – Enforce Invoicing Period

An option to allow enforcement of the invoice period for fixed price contracts has been added. If the period is enforced, it is not possible to invoice these items outside the contract line effective and expiry date:

- Installments
- Deliverables (during transfer to invoices/confirm shipment)
- Fees
- Advances
- Holdback

Non-hardware deliverables can no longer be Activated, Released to WH or Delivered. The effective dates must be specified when Enforce Invoicing Period is set to Yes.

## Network Planning

### Scheduling Algorithm

A basic option is introduced which enables LN to calculate the critical path, the earliest and latest start and finish dates, and the possible float. On the project, you can now specify if the planning method must be Forward or Backward based on the project start date and finish date. Possible issues are also reported. For example, a conflict between a constraint and an activity relationship.

## Display Critical Path in Gantt Chart

The Project schedule or Gantt chart functionality has been extended with options to display the critical path. A Constraints check has been added to the setup options to display the constraints as columns. Based on a tools change, it is now possible to set the width of columns and save this setting.

## Enriched External Scheduler Interface

The Planning Method (Forward/Backward) and the lag of an activity relationship, if expressed as a percentage, are used as part of the external scheduler interface.

## Projects

### Extended Element and activity code

To offer additional options and flexibility, the element and activity code has been extended from 8 to 16 characters.

### History on Element and Activity

Like the project, now Element/Activity history is available. The history records are created based on the changes to the element or activity.

### Access Item General Data

A reference option has been added to the Project sessions for items, equipment, and subcontracting, which can be used to access the Item General data.

### Equipment Information

The information that can be stored for equipment has been extended. These options are introduced:

- Classification
  - The information already available for material, is now also available for equipment.
- Flag Manned Equipment
  - This field is informational only.
- Planner (employee)
  - Defaults to the PRP Purchase Order

- Input for Purchase Order
- Responsible Department
  - This is used as part of item authorization.

## Subcontracting Information

The Responsible Department is now used as part of item authorization.

This option is similar to the option added for equipment in LN 10.5.1.

## Additional options Work Authorization Status

Additional options have been added to the Work Authorization status. Options to update all activities in the selection (irrespective of the current status), or to only update activities with a specific status, or update activities that are On Hold activities with a certain reason code are also included.

## Code Length for Equipment and Subcontracting cost types

Several customers had reported that the code length for equipment and subcontracting cost types must be the same as is used for items. Therefore, the code length has been extended for the cost types.

## Project Cost Distribution

In Project, the financial transactions originating from a financial document (for example a journal voucher) are split as cost or revenue transactions. Now, based on the specified option in the Transaction Types (tfgld0511m000) session in Finance, either the Cost Entry Overview (tpppc2811m000) session or Cost Entry (tpppc2605m000) session is used to split the project costs.

## Standard Cost per Enterprise Unit

The standard cost of an item is defined for each enterprise unit in the Item Costing session. If the Pricing Policy field is set to Standard Cost in the Item-project (tppdm0105s000) session, LN defaults the standard cost in the Cost Entry (tpppc2605m000) session for the material and the Element Budget (material) (tpptc1110s000) session. To enable the default mechanism for the standard cost of the generic item, the Standard Costs at Level field in the Items (tcibd0501m000) session can be set to either Enterprise unit or Company.

## Project Deliverables

For the Project Deliverable, capturing the Carrier / LSP and Route has been added.

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## Return Project Deliverables

When using project deliverables, goods received from the customer can be shipped to the project WIP warehouse.

This is a return flow.

This flow has no financial consequences, because the costs remain at the project.

The returned goods are not linked to an installment for credit invoicing.

These delivery types are used to ship goods to a customer:

- Proj->Wrh -> BP
- Wrh -> BP

Both delivery types support the return flow, but the return flow ends at the receipt in the project WIP warehouse. The flow from the warehouse back to the project is not supported.

## Earned Revenue Factor (ERF)

Previously, you could only use the Completed Project or Actual Revenues methods to calculate earned revenue for projects without project contracts. Consequently, revenue recognition over time was not supported in this scenario.

As from this release, the Earned Revenue Factor (ERF) method is also available for projects with linked sales or maintenance sales orders.

**Note:** For projects without contracts but with linked sales orders or maintenance sales orders, you can only manually specify the ERF.

## Calendar Visibility

In previous versions, it was not always clear which calendar and availability type was used for a project or an activity. In this release, the calendar and availability type is displayed and you can access the working hours for the calendar and availability type combination.

## Employment

On the start date or appointment date of a Resource Assignment, Responsibility, or Project Appointment, a check is done whether the appropriate employee is employed on that date.

A warning is displayed if the last date of employment of an employee present on an object coincides with the current date. For example, if the employment of a contract manager attached to a contract expires. If a project, contract, CLIN, and so on, is copied or generated, employees with expired employments are not copied or generated to the new object.

**Note:** this check is done only if Employee People data exists for an employee.

## Planner

The **Planner** field was not available for Subcontracting and Planned Subcontracting orders. These features have been added:

- The (default) planner can be defined as part of standard and project-specific subcontracting
- The planner defaults to the Planned Subcontracting order or can be manually defined
- The planner of the planned order is input for the purchase order once the planned order is transferred

## Trade Group

To make the Trade Group field more easily available, this field has been changed to a display field in the Employees - Project (tppdm8101m000) session, and is added as an entry field to the Employees – People (bpmdm0101m000) session.

## Estimating and Bidding

### Bid Workflow

A Workflow Status field has been added to apply the workflow for the internal approval of the bid. This improves the bidding process.

### Bid BOD

To ensure that alerts are generated on the expiry of a bid, the expiry date has been extended to expiry date/time. You can now also specify a Sales for the bid. Consequently, the LN Project Data can be generated by Sales Office.

### Customer 360 – Bid

The bid(s) of a specific business partner are now displayed as part of the Customer 360 (tdsmi1500m000) session.

### Bid – Shipping Information

These shipping related fields have been added to the bid and are used while creating a contract line: Delivery Terms, Point of Title Passage and Carrier.



## Cost Type totals

To improve the visibility of total cost and sales by cost type we introduced:

- Options in estimate lines and bid to check cost type totals by cost and sales amount, for labor and subcontracting indication on hours
- This is also available by primary structural element

## Update Structure for Estimating

These options have been introduced to improve synchronization:

- Allow for a range selection in the session Generate Structural Elements (tpest1220m000) and allow the session to be used in a job
- Add the Generate option on the Structure sessions to quickly update the corresponding Estimate Structure

## Budgeting

### Traceability of all Changes in Budget History

Update all changes as in normal History Logging: not reflect the previous state but the last change as such.

## Project Requirements Planning

### Additional Selection Ranges PRP Run

The Project Requirements Planning (PRP) is always run for all the released elements/activities of the projects within the selection. Now, additional selection ranges can be added to this run:

- Element/Activity range
- Cost Type
- Cost Object

For example, a person can focus on requirements planning for equipment or subcontracting of a specific part of the project.

## Use of Budget Information

Some of the information of the project budget was unavailable for the planned orders resulting from Project Requirements Planning (PRP) runs. To control the availability of budget information for planned orders, these new parameters and settings for PRP runs have been introduced:

- The budget price/rate
- The budget text
- The project deliverable text

The new Planning parameters default to **No**, which means that the budget information should not be used. If required, you can change the default settings. If the budget price/rate is used, this is displayed as the price origin on the planned PRP purchase orders.

## Project Scheduling

### Planning Package Data in Network Planning

Planning package data is also included when generating network planning. Both the activity types; Work Package and Planning Package are expected to be used as the lowest level of an activity structure.

### View Resource (Un)availability in Project Schedule

It is now possible to view the resource (un)availability of an employee using the relevant options in the Project schedule (tppss2700m100) session. Free float and Total float time for the Activity can also be viewed in the Gantt chart using the Show/Hide options in the Project schedule (tppss2700m100) session. The options to access the budget information are enhanced. Activity budget information can be accessed from the Gantt view. An activity and budget can be deleted from the Gantt view using the keyboard options. The Delete option is enabled and can be used to delete an activity, relationship, budget line or assignment.

### Additional Information Interface External Scheduling

The ESP Project Overview displays additional information such as free float and total float time of the activities which can be interfaced between LN and the external scheduling package.

### Job Shop control

The Project Gantt provides visibility of pegged production orders and the operations. The project schedule allows you to show and access the production orders and operations that are pegged to the project.

## Gantt settings

You can save (persist) settings for Completions and Constraints. Based on a tools change, whatever option has been chosen when you close the Project Schedule session, is reused the next time the session is started.

## Accounting

### Performance Overhead calculation

The calculation of overhead can be a very intensive process. To enhance performance, calculation of overhead now supports the use of multiple bshells.

## Monitoring

### Additional Options in Control Inquiries

Options have been added to the Control by Project level to display these amounts:

- Amount Paid to Suppliers
- Amount Due to Suppliers
- Amount Paid by Customers
- Amount Due by Customers

### Improved Performance Measurement Process

Several small enhancements have been included to improve the performance measurement process. The top-down budgeting, time-phased budgeting, progress by cost type as well as some performance measurement related sessions have been modified.

### Forecasting Activities with Status Free

It is allowed that for an activity with work authorization status Free in Cost Forecasting forecasts are being registered.

## Project - Service Integration

In Project, the Use Matching Task Codes parameter is introduced. This parameter can eliminate or reduce the need for mapping tasks in Project to tasks in Service.

If the parameter is selected, LN checks whether a task used as part of a specific reference activity in Service also exists in Project and if so, use this task code. This check is performed during various processes, for example, when generating budget lines.

Note: any existing mapping has a higher priority and will be considered first.

## Subcontracting

Item - Service data for subcontracting, that is a subcontracted service as used in Project, is now possible. For a reference activity in Service, the Resource Type, Subcontracting is only used to check if the activity is subcontracted. One or more subcontracting items can be used for the reference activity of the type Field Service, which is subcontracted

Note: For reference activities with subcontracting, the Activity Use field must not be set to General, in the Reference Activities (tsacm1101m000) session. The use of project specific subcontracting is excluded.

As part of the Project/ (Field) Service integration cost mapping is not required, if both the Project and Service data exist for the subcontracted service and the subcontracting services used in Project, which can be also used for the Service order.

## Budgeting

A new option is added to modify the budget information created based on the reference activity, as defined in Service. This option is enabled based on a Budget Parameter in Project. If changes are allowed, for example, the quantity can be changed for the Service related budget line. The modified information is used when service order (activity) is generated.

## Project Pegging for Field Service

The project pegging functionality is extended to include field service. To enable project pegging for field service, the Use Project Pegging in Field Service check box is added in the Service Order Parameters (tssoc0100m000) session. Project pegging uses Cost Component based mapping for costs in Service. Costing Breaks functionality is now extended to field service. The Service tabs in the Costing Breaks (tppdm3600m000) session are renamed to Service Material, Service Labor and Service Other Cost.

**Note:** Generating (field) service orders is only possible for activity based projects. However, as part of the project peg, element and activity can be used.

## After Sales Service Integration

In Project, for items that require service, the After Sales Service functionality can now be used for the contract deliverable. The integration is only relevant for hardware contract deliverables as these can be maintained using LN Service.

This functionality is enabled for the contract deliverable of the contract line only if the **Extended Service Integration** check box is selected in the Contract Parameters (tpctm0100m000) session.

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## Revenue Recognition

### Change Method

It is now possible to change the method of revenue recognition for a contract or project with the status Open. For example, new regulations might result in a change to the revenue recognition method.

The method to be used can be changed, without affecting the revenue calculations, until an interim result is approved and processed. With this release, a change is allowed even after the approval but in a controlled process. To change the interim results methods, you must select the Change Interim Results Method option from the Actions menu in Contract Interim Results (tpctm0180m000) and Project Interim Results (tppdm6103m000) sessions. A warning message is displayed, if interim results already exist. When you generate interim results with a new interim result method:

- The already posted interim results are settled and reposted.
- Unprocessed interim results are deleted.

### Scenarios

To accommodate reporting, for example because of the SAB-74 requirement, scenarios using a Primary and Alternate revenue recognition setup can be created. The Primary setup is used for processing the revenue to Financials and therefore for all financial reporting. The Alternate setup is optional and can be used as a basis for additional reporting. This can be useful in the transition period to the new accounting regulations (SAB-74/IFRS-15). It is possible that during the process to handle the disclosures, an analysis by the customer could result in additional finance postings (manual journal entries). An option to switch between the Primary and Alternate setup is also available.

### ERF calculation based on EAC

The Earned Revenue Factor (ERF) calculation was always based on the budget, never on the Estimate At Completion (EAC). For Percentage of Completion a choice was available. Calculation based on EAC now also exists for the ERF calculation.

## Chapter 8 Planning & Manufacturing

# 8

### Planning Master Data

#### Check Horizons

The Update Method 'COLT' has been changed. If this update method is selected, only the COLT values are updated (and not the minimum horizons and the maximum Parents). The report for this update method does not include the minimum horizons. The old logic of the update method 'COLT' is now provided as a new update method called 'COLT + Print Minimum Horizons'. As a result, the performance is improved.

#### Mandatory Planning Cluster

Up to LN 10.6 it is possible to set up inconsistent planning scenarios, leading to either missing or doubled supply advices. For example: a job shop order with the supplying warehouses in different clusters than the receiving warehouse. Because the setup in the planning area is most often done by experienced planners, the problem does not occur often. But in a multi-site scenario the chance of making errors becomes more substantial.

Therefore, these changes are introduced:

- The planning cluster is now required in the item planning record.
- A warehouse is linked to only one site and a site is linked to only one planning cluster
- The empty planning cluster is no longer allowed

These changes will support the creation and running of an unambiguous and correct planning / replenishment scenario in LN.

The changes in the cluster data require user interaction. Therefore, instead of having an automatic conversion, the change will be done with an intermediate step, decoupled from the upgrade. The activation is parameter controlled. First the parameter is set to In Preparation. This phase can be used to correct, to complete and check the master data. When finished, the parameter is set to Active, the master data is converted and the new functionality becomes active.

The code for replacing the "blank" cluster is defined in the field Default Planning Cluster in the Planning Parameters session. This field is only visible during the In Preparation phase.

## Master Planning

### Forecast Planning

Earlier, the forecasted quantity was handled as one demand on the last working day of the bucket. In a scenario where the production is based on the forecast this can lead to shortages when the actual sales order is received.

To avoid this shortage situation, the logic in enterprise planning has been extended. Additional logic to deal with forecast demand in the master plan has been introduced.

When running the planning process for the forecasted demand, it is now possible to spread demand evenly across the working days for the buckets. Subsequently, based on the lot size and the order interval, the planned supply is generated. As a result, in the above mentioned scenario, less shortages occur.

It is also possible to use the master plan to consider the forecast demand at the start of the period, which means that the forecast demand is placed in the master plan at the end of the first working day of that period.

### New Channel Master Plan view

A new option to view the data by Scenario, Channel, Item, Period has been added.

## Order Planning

### Reset Planned Order status

It is now possible to reset the order status, from Confirmed to Planned.

### Detect Loop in Bill of Material

A parameter has been added in the Detect Loop session. When enabled the check will stop immediately if a loop is detected.

### Order Planning Analysis

The Enterprise Planning run is a time-consuming process. Not only the number of items, the depth of the bill of material and the number of orders determine the duration, but also incorrect item data or incorrect initial phase numbers can make the run longer.

New functionality is introduced to make it possible to analyze if the duration of the run deviates from the average and which items caused it. If the new functionality is activated, statistical data is stored for every calculation run.

For every run, a record is stored with this data:

- Run number
- Scenario
- Start date / time
- Duration
- Number of items,
- Number of orders
- Number of signals

Optionally, the item details of the run are also stored:

- Run number
- Sequence
- Item
- Initial and final phase number
- Duration of the calculation
- Additional number of orders
- Total number of orders

A new report is available to report on the data. The report summarizes the run data. It can optionally show the statistics for items where:

- Duration of the calculation greater than the set threshold
- Number of orders greater than the set threshold
- The phase number is raised more often than the set threshold

Furthermore, a new setting has been added. It is possible to have the run stop immediately when an anomaly is detected. Subsequently an ION message will be generated.

## Manufacturing (General)

### Line Side Labeling

It is the requirement of many suppliers, that containers must be labeled during production with the customer specific shipping labels. Therefore, Line Side Labeling has been implemented for production of the type 'Repetitive' and 'Job Shop'. After the quantities are reported complete, when the finished goods are received in the finished goods warehouse, the customer specific labels can be printed.



## Project (PCS)

### Resource Assignments

For resource assignments for projects in PCS, the start and finish date have been added. This allows to assign employees different from the activity dates.

### Activity Code

The activity code has been extended from 8 to 16 characters.

### Transaction Pricing

Transaction pricing has been introduced as part of Revenue Recognition in PCS projects, to comply with SAB-74 and IFRS 15 regulations. Instead of using the sales amount as the base for the calculation of an interim result, a transaction price can be specified, and used for the calculation of revenue.

### Over Time Accounting

Over Time Accounting has been introduced in this release to comply with SAB-74 and IFRS 15 regulations. Using the interim results with Over Time Accounting, is independent of what has been delivered or invoiced on the PCS project. The calculation is based on the transaction price and the percentage of completion of the PCS Project, and is cleared only when the PCS project is closed.

## Tools

### Production of Tools

Functionality has been added to create a job shop order for the production of a tool.

In this release, the item defaults for item type 'Tool' is introduced and the logic to administrate the production of a tool has been included.

Therefore, it is now possible to either make or buy a tool.

## Job Shop Control

### Production Order Versions

In an engineering-to-order scenario, the design phase and the production phase often overlap. Sometimes the production order for an item is already released or active when a new revision of the item is introduced.

By enabling the production order version control, it is now possible to change an already released production order. The status of the order is reset to 'modify'. It is now possible to:

- Change the revision of the item
- Change the estimated material
- Change the operations
- Reprint the order
- Recalculate the estimated costs
- Update the as-built

The order can be (re)printed and released again. The information of the previous versions is stored in the production order history.

### Navigation to Production Orders

You can now access the Production Orders (tisfc0501m000) and Production Order (tisfc0101m100) sessions from the References menu of the Production Order Changes (ticst1551m000) session.

### Phantom field - Production Item 360

The Phantom field is now displayed in the Production Item 360 session.

### Generic Bill of Material - Where-Used Component

You can now use this session Where-Used Components to search the generic bill-of material.

## Subcontracting

### Item Subcontracting Model

Subcontracting of an item is critical in today's business. Therefore, a new 'make' option has been added for subcontracting, apart from the existing 'assembly', 'repetitive' and 'job shop' options.

The master data setup is simplified. Using a single item subcontracting model session, all required master data can now be maintained. The master data includes:

- Subcontracting Bill of Material, dependent on subcontractor.
- Price.
- Subcontractor warehouse.
- Lot size restrictions, lead time, sourcing percentage and so on.

It is possible to have multiple models for each item and subcontractor. The model is also revision controlled to handle the changes made over a period of time.

## Repetitive Manufacturing

### Report Complete a Range of Shifts by Work Cell

A new Complete Shifts session has been introduced, which can be used to report complete range of shifts by work cell. This is to reduce the number of administrative activities and actions for the users, reduce errors, and increase efficiency on the shop floor.

### Multiple Work Stations for Same Point-of-Usage

It is now possible to allow single point-of-usage (shop floor warehouse) of supply to multiple work cells. This is to allow a single point of usage to supply multiple work stations of the production line.

### Department Work List

A new Department Work List session is introduced to display all the open production schedule lines for the work cells that belong to the selected production department. Open schedule lines can be selected and processed (approve labor hours) and/or completed simultaneously.

### Repetitive Manufacturing - Factory Track Integration

Factory Track now supports the functionality of the work list. You can report quantities as complete and reject quantities. Rejected quantities can be sent for scrap, for rework, or to quarantine by using barcode scanners.

## Chapter 9 Service

# 9

### Service (General)

#### Material Handling on Material Lines – Order Unit

In this release, it is now possible to define a unit when material is defined for a Reference Activity, or for a Service Order, or a Work Order.

#### Material Handling on Material Lines - Component Handling

List Items of type Kit now are available, which can be used for a Service Order material line or a Work Order material line. The item of type Kit is not stored on the material line but the components are copied to the material lines.

#### Item Service – Business Partner

In LN 10.6, you can define item service data for each business partner.

To define sold-to business partner specific defaults for item service data, these sessions have been introduced:

1. Items – Service Business Partner (tsmdm2130m000)
2. Items – Service Business Partner by Office (tsmdm2130m100)
3. Items – Service Business Partner by Site (tsmdm2130m200)

In sessions 2 and 3, you can set up specific defaults for service offices and sites. These two sessions are only available if the Sites parameter in the Implemented Software components (tccom0500m000) session is set to In Preparation or Active.

The key of the new table is: Item Group, Item, Sold-to Business Partner, Ship-to Business Partner, Service Office, Site, Effective Date.

Either the item group or the item must be specified (you cannot specify values for both fields).

The sold-to Business Partner is mandatory. The ship-to Business Partner is optional.

The service office and site are only available if the Sites parameter in the Implemented Software components (tccom0500m000) session is set to In Preparation or Active.

The effective date defines the first day on which the setup is valid. The expiry date defines to when a record is valid.

To specify new records in the Items – Service Business Partner (tsmdm2130m000) session, click New or select Insert in Details in the Actions menu to start the Items – Service Business Partner (tsmdm2630m000) details session.

## Configuration Management

### Installation Group

The Installation Group is not mandatory, but yet the option is displayed. It is now possible to specify if the Installation Groups are required. If not required, you must clear the Installation Group check box in the General Service Parameters (tsmdm0100m000) session.

## After Sales Service

### After Sales - Sales

For the items sold, it is possible to specify:

- A Warranty
- If a Physical Breakdown must be created
- If an item must be linked to an Installation Group
  - o A new Installation Group can be created
- If a Service contract must be generated based on a Contract template

### After Sales - Project

The After Sales Service integration is available for Contract Deliverables in this release. For more detailed information, see After Sales Service Integration section in the Project chapter

The data can be processed to Service using a new session, which can be modelled as part of the Sales Order Type activities.

## Supplier Claim Management

### Supplier Claim Workbench

For the Customer claims, a workbench was already available. Now, a workbench is also available for Supplier claims. The new workbench contains a filter for claims, based on attributes

such as Buy-from Business Partner and/or Item. Claims can also be filtered based on amounts. The workbench provides the user an insight of the next required step in the claim procedure.

## Service and Project (TP) Integration

### Subcontracting

Item - Service data for subcontracting is possible. However, for a reference activity in Service, the Resource Type Subcontracting is only enabled if the activity is Subcontracted. One or more subcontracting items can be used for the reference activity of type Field Service that is subcontracted.

Note: For reference activities with subcontracting., the Activity Use field must not be set to General, in the Reference Activities (tsacm1101m000) session. The use of project specific subcontracting is excluded.

As part of the Project/(Field) Service integration cost mapping is not required, if both Project and Service data exist for the subcontracted service. The subcontracting services used in Project can also be used for the Service order.

## Project Cost Pegging

### Project Cost Pegging for Service Orders

Project Cost Pegging is now available for service orders as well, in addition to maintenance sales orders and work orders.

## Quotes

### Maintenance Sales Order Quotes

It is now possible to generate a Quote Request from a work order. Multiple Quote Requests can be consolidated into one Quote when certain criteria are met. It is also possible to change a quote. You must create a new revision with the same quote number.

### Maintenance Sales Order Quotes

If cost lines of type Material are defined on the Quotes, you can define alternatives for those materials.

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## Resource Management

### Service – Additions to Resource Management Workbench

The description of the Working Hour Type code and the description of the Working Hour Type record created, are now displayed on the Gantt. With this option, it is now possible to allocate an employee to a quote/bid or for a road-show.

In the grid, it is possible (by adding new columns) to view the status (shipped or not) of the linked material line linked to an activity. It is also possible to view the number of resources of type employee required for an activity.

### Turn Around Time

The Turnaround Time (TAT) is an important part of an agreement between a customer and a MRO Service Provider. The TAT reflects the period the MRO Service Provider can work on the item involved. This period of time is measured by the TAT-clock, which can be started or stopped in response to defined events.

### Turn Around Time – Events – Event Set

Events (LN sessions or manual activities) can be defined. The defined events are stored in an Event Set. For each event, the user determines if it is a start-event or a stop-event. For LN sessions, you can define if the TAT-clock must start and stop automatically or manually. An example of a start event is Confirm Receipt. An example of a stop event is Confirm Shipment.

### Turn Around Time – Terms

A Turn Around Time Term can be defined for the following attributes or a combination of these attributes:

- Department
- Business Partner
- Item Group
- Item
- Serial Number

### Turn Around Time – Turn Around Time Document

A TAT-document is created and linked to a service object such as a Service Call, Service Contract, or Maintenance Sales Order – Part Maintenance line. This document contains the events. All actions are stored in a log.

## Mobile Field Service

In Mobile Service version 10.4.1580.4688, these functional additions have been made:

- The setting of the Show service orders with status Costed in Mobile Service parameter determines whether costed service orders and activities are displayed.
- It is easier to see which data has been changed. This is displayed in both the item and the parent data.
- The customer order can be used in the visit report.
- The service order status is displayed in the visit information pane.
- In the schedule and visit you can see whether a service order is interrupted.

If an activity for a serialized item is added, and the serialized item does not belong to the business partner of the service order, a warning is displayed.



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# Chapter 10 Quality Management

10

## Quality Management (General)

### Quality Series Defaults

Flexibility is provided to define a series at the Warehouse, Department, or Enterprise Unit level in the QM parameters session. This flexibility is also provided for Inspection Orders, Non-Conformance Reports, and Corrective Action Plan documents.

Also, the series option is provided for user profiles.

When a new Inspection Order, Non-Conformance, or Corrective Action Plan is created, LN first checks the series in user profiles. If not defined, LN checks the series in Quality Series Defaults is checked. If not defined, the series specified in the Quality Management Parameters is used.

### Purge and Archive for Order Inspections

The Delete Order Inspection (qmptc1203m000) session has been extended to handle archiving of order inspections. This session includes all the generic features of an archiving session.

### Lot Serial 360 View from Quality Management

Lot Serial 360 session can now be accessed from the Order Inspection session. The view displays the filtered records for the relevant serial and or lot.

### QM-RPT Integration – Repetitive Routing and Repetitive Production

These origins are introduced in Quality Management to enable quality inspections and non-conformance reports related to repetitive manufacturing. Non-conformance reports are enabled only for the repetitive end item.

## Corrective Action Plan

### CAP Task Workbench

The Corrective Action Plans task session has been updated to be more task orientated. The session can now be used to easily search for specific ranges of Corrective Action Plans manually or using pre-defined filters.

The session includes specific data, status based, and date based filters.

### CAP Action Category

You can use a new Action Category attribute to classify CAP Task Types. The available options are: Containment, Corrective, Preventive and General.

### Problem Solving Methods

Generally accepted problem-solving techniques like 8D and A3 have been introduced in this release. These techniques can be used in combination with newly introduced root cause analysis techniques such as 5Why, Fish Bone Analysis and Check List.

### Root Cause Analysis

Root cause analysis of a problem is now possible with techniques such as 5Why, Fish Bone Analysis and Check List. Fishbone analysis can also be combined with 5Why analysis.

## Conformance Documentation

### Selling Side - Contract Deliverables, Sales, and Sales Schedules

The business requirement to record details of the various Inspection types that are executed at the source (by the supplier or another approved third party) had been addressed in 10.4.

In this release, a similar requirement on the sales side (manufacturer related) is addressed. For example, certificates of conformance, supplier inspection reports, first article inspection and so on must be shipped with the goods. The conformance document register was introduced in 10.4 to record the relevant details related to the user defined conformance documents or document sets. The user can pre-register and pre-approve the documents prior to the shipment. Also, the relevant document details can be recorded as part of a quality management inspection process. This information is 'matched' against the pre-received conformance documentation as part of the pass/fail process. The above process is now also available for contract deliverables, sales, and sales schedules.

## Conformance Documentation – Service

Conformance documentation is available for service related objects such as service orders and maintenance service orders.

### Certificate of Conformance

A certificate of conformance (CoC) is a document certified by competent authority stating that the supplied goods or services meet the required specifications. This certificate is an assurance from a manufacturer or supplier that goods have been inspected and that they conform to technical specifications and other regulations.

In this release, existing conformance reporting solution has been extended. This solution captures additional details required for conformance reporting. These details are used in printing certificates of conformance.

### Additional First Article Inspection (FAI) Triggers

To capture specific conditions to trigger FAI inspections, advanced modeling of FAI rules is introduced. Generic FAI rules are also introduced to define more generic rules, for example, for purchasing an item for the first time.

FAI is now applicable for various Sales, Purchase, Production, and Contract Deliverable objects.

## Failure Reporting, Analysis and Corrective Action System

Failure Reporting, Analysis and Corrective Action System (FRACAS) is a process to control or eliminate failures. The failure report records the details and categorizations of all individual failures, repairs and the results of repairs.

These specifics apply to FRACAS:

- FRACAS can be initiated from production operations, service orders and maintenance sales orders.
- The details of failed items, failure details and related process attributes can be recorded.
- The details of removed items or replacement items used during each repair can be recorded.
- A corrective action plan, followed by a root cause analysis, can be initiated.
- A non-conformance can be initiated.

# Chapter 11 Invoicing

# 11

## Invoicing (General)

### Collect Orders – Separate Transaction Type

When the Collect Order functionality is used for sales orders, invoices are created directly from Sales Order Management. It is now possible to specify a separate transaction type for these types of invoices. This can help prevent locking issues due to invoice number generation.

### Manual Linking of Related Invoices

In the Related Invoices (cisl8112m000) session, it is now possible to manually link a related invoice to a billable line. It is also possible to handle this billable line as a correction, if the manually linked related invoice is marked as an original invoice.

### Track Changes after Printing

User actions on the printed invoices can be tracked now. Users who initiate the change along with the date of change are logged. A reason can be entered by the user. These actions can be viewed in the User Actions on Invoices session.

Following actions are logged.

- Changes after Printing
- Reprint
- Credit and Rebill
- Credit Invoice Lines

### Currency Rate Change

When the rate determiner is set to Manual, it is now possible to enter the rates directly for invoices with status Ready to Print.

### External Invoicing System

Many countries require the sales invoice to be sent to the tax authorities system for verification and approval. To trigger the submission of the invoice, wait for the approval and handle the

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invoice after approval, additional statuses are required in Invoicing. The invoice status has been extended with these new statuses:

- Submitted to External System
- Rejected by External System
- Approved by External System

These statuses are applicable only if Use External Invoicing System is selected for the Invoicing Method.

Note: Currently this is enabled only for Mexico and Brazil.

## Pro Forma Invoicing

Pro forma invoicing is now supported. Pro Forma invoices can be generated from order approval to release of the billable lines to invoicing. Pro Forma invoices may be created with or without unique invoice number. Separate invoice number series is used for pro forma invoices.

Customs Invoice, a special type of pro forma invoice, is now supported as well. This can be based on customs value based on configuration and availability.

Customs or Pro forma invoices can be generated in the source packages or from warehouse shipments, after shipment is frozen.

Pro forma invoices are stored in invoicing and can be accessed from Pro forma Invoicing Workbench. All other invoicing sessions show and handle only the regular invoices.

Pro forma invoicing is supported for contract invoices, sales order and schedules.

### **Pro Forma Invoicing – available for additional origins**

The capability to create pro forma, or customs invoices for non-billable shipments has been introduced. Non-billable shipments are not invoiced to customers. Invoices may still be required for export documentation purposes. Examples: warehousing orders of type Sales (Manual), shipments to subcontractors, or warehouse transfers. Pro forma invoicing is now also available for freight orders and intercompany trade orders.

## Configuration

### XML Invoice

XML invoices can now be configured and used for XML invoice generation. It is possible to specify for each financial company the type of invoice document that must be generated - Printed Document, XML Document, or both.

The XML Invoice layout (cisli1151m000) session provides a framework for the configuration of the XML invoice of different formats and allows for mapping with the LN invoice data. It is also possible to test the XML layout before activation. The XML layout is date effective.

## XML Invoice – Improvements

Following improvements have been made in the XML Invoice configuration as well as storing and distributing the XML Invoices.

- XML only option is available in the Invoicing Parameter session
- Conditions configuration for the XML tags is available in the XML Layout Details
- Path to store the XML invoice file can be specified in the XML Invoice Layout
- Document output management can be configured to distribute the XML invoice along with the printed document.

## Billing Cycle

Billing cycles can be used to configure when the billable lines are invoiced. For example, every Monday of the week, or the 15th of every month. Billing cycle supports

- Billing based on recurrence (Daily / Weekly / Monthly / Yearly)
- Number of days to delay invoicing after shipment
- Amount threshold for immediate invoicing

Billing cycle can be linked to an Invoice-to business partner.

Invoicing will be allowed for the billable lines, only on specified days / dates per the billing cycle definition.

## Processing

### To be Printed Invoice Lines

In Invoicing, it is now possible to view the invoice lines which are actually printed. In the 'To be Printed Lines' session, the invoice lines which are to be printed are displayed. The account aggregations based on the invoicing method is considered when the data is printed. In addition, it is now possible to rearrange the sequence in which invoice lines are printed.

### Collect Orders – Separate Transaction Type

When the Collect Order functionality is used for sales orders, invoices are created directly from Sales Order Management. It is now possible to specify a separate transaction type for these types of invoices. This can help prevent locking issues due to invoice number generation.

### Manual Linking of Related Invoices

In the Related Invoices (cisl8112m000) session, it is now possible to manually link a related invoice to a billable line. It is also possible to handle this billable line as a correction, if the manually linked related invoice is marked as an original invoice.

## Installment Plans

### Additions to Installments based on Installment Plan

Installments based on Installment Plan can now support the following options:

- Advance Payment Requests can now be created and invoiced.
- Advance Invoices can be defaulted with a tax code that is different from the order line tax code. Also, the defaulted tax code can be changed as long as the tax rate of the advance invoice tax code and the order line tax codes are same.

### Installment Plan – Manual Method

Installment plan now supports manual method. In manual method, it is possible to create an installment for a specific order line. This option provides flexibility to configure installments differently for different order lines. Because of the manual configuration involved this is more interesting for business with low volume invoicing or for use with small set of orders / business partners.

# Chapter 12 Financials

# 12

## Master Data

### Mapping Scheme Improvements

As part of improving the visibility, use and setup process of the mapping schemes, these changes have been realized:

- An extra possibility is provided to setup the Mapping Scheme by Reconciliation Group. Often one reconciliation group is linked to one (default) Ledger Account. Providing a user interface that supports this setup, improves the understanding of the Mapping Scheme functionality during initial implementation phase.
- In order to get a better overview of the resulting journal entries, the Mapping Scheme Details and Default Accounts definition are now combined in one screen.
- Column filtering is provided on the Integration Document Type Description, Business Object and (Reconciliation) Element to improve usability.
- To facilitate multi-user editing of the Mapping Scheme, users must be granted authorization for one or more companies used in the mapping scheme.
- Also, the Mapping Scheme check/activation can only be performed if no other user is working with the mapping scheme version.

Audit information is added to the mapping scheme. Additional fields are added to record:

- The user who created the mapping scheme version including the time stamp.
- The user who last modified the mapping scheme version including a time stamp.

### Improve Integration Parameters

The change in the Integration Parameters can now be tracked as each change is stored with an Effective Date and Description.



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## Fixed Assets

### Business Partner Distribution in Journal Vouchers

Some organizations are required to report all the financial transactions for each business partner, if applicable. This also includes the transactions that are created by the fixed assets processes.

Several invoices for different business partners can result in adding cost to one fixed asset. In this scenario, each transaction must be divided proportionally to the cost amount for each business partner. This distribution for each business partner is now stored for each fixed asset. When the fixed assets are capitalized, depreciated, adjusted, or processed, for each process the transactions are created with a distribution by business partner.

### Enhancements in distribution by Business Partner

Enhancements have been made to the fixed assets functionality which enables the reconciliation of the general ledger with the fixed assets sub ledger by establishing a GL account/dimension mapping based on the Business Partner. For this reason, a new Integration Element code for all the fixed assets related IDT's is added. The ability to dispose assets for a certain Business Partner is also supported.

### Extra Options for Depreciation Calculation

These extra options are added to calculate depreciation amounts:

- Calculate depreciation based on a percentage of the current cost;
- Include the cost adjustments based on the depreciation calculation from the next period onwards;
- Include only the salvage value for the last period of depreciation.

### Asset Purchase in Invested Capital Overview Report

In the Invested Capital Overview Report in the Fixed Asset Management Module, the Asset Purchase Date field has been added.

### Investment without Payment Discount and Late Payment Surcharge

The ability to choose if Payment Discounts, Late Payment Surcharges and/or Payment Differences should be added to the investment amount of the asset. Three new fixed asset parameters have been added to support this.

### Collective Asset

The ability to indicate if an Asset is used as a collective asset. If this is selected, all adjustments for the asset are automatically registered per in-service date.

## Navigation List View in Assets

The new user interface with a navigation list on the left and details view on the right has been implemented in the Fixed Asset session.

## Change Fixed Asset Group

Employees enter many transactions into the system. If mistakes are made, in most cases, these mistakes can be easily corrected. But, if an erroneous asset group, category and subcategory are assigned to a fixed asset, or an erroneous in-service date is specified and the asset has been capitalized, corrections are not easily achieved. This may result into a new asset code or extension and sometimes unwanted depreciation transactions.

The new functionality reverses the incorrect entry or entries and automatically generates correct entries with the correct amounts.

These changes have been made to the existing Adjust Assets (tffam8220m000) session:

- New fields have been added to the session to change the **Fixed Asset Group, Category, Subcategory and In-Service Date**. These changes do not require a new asset code or extension.
- For future reference, a reason code must be provided by the user to indicate why the change is made.

The changes can be made to assets in these cases:

- No depreciation has been calculated and posted yet.
- Depreciation has been calculated and posted.

For assets for which no depreciation has been calculated and posted, this change of asset group and/or asset category, sub category and/or in service date does not result into any depreciation transactions for the old asset group.

For assets for which depreciation has been calculated and posted already, this change of asset group and/or asset category, sub category and/or in service date results in reversal transactions of the already posted depreciation amounts. The correct depreciation transactions are created up to the last depreciation date of the asset.

To be able to track the new adjustment options, the Adjustment – Details (tfgld8520s000) session has been changed to accommodate the changes in Category, Subcategory, Group and In-Service Date.

In the Print Invested Capital Overview (tffam8478m000) session, the reports have changed to reflect the changes in asset Category, Subcategory and Group. This is also applicable for the Print Net Book Value Detail Reconciliation (tffam8477m000) session.

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## Accounts Receivable, Accounts Payable

### Write off Bad Debts

For business purposes, a debt is regarded as 'bad' when the decision is made that the debt is non-recoverable. This decision is made when all reasonable efforts are made to collect the debt but without any success; and the supplier is in a position to reduce the amount of debt by indicating the same in the application. It is necessary to write off a bad debt when the related customer invoice is considered to be 'uncollectible'.

There are two methods to account for bad debts:

- **Direct write off method:** The seller can charge the invoice amount to the bad debt expense account when it is certain that the invoice cannot be paid. The journal entry is a debit to the bad debt expense account and a credit to the accounts receivable account.
- **Allowance method:** The seller can charge the invoice amount to the allowance for doubtful accounts. The journal entry is a debit to the allowance for doubtful accounts and a credit to the accounts receivable account.

The Credit Collector Workbench functionality has been extended. Based on this enhancement, a Credit analyst can easily and consistently write off bad debts using these methods.

### Bad Debt Recovery and Bad Debt Claim Report

The Bad Debt Recovery functionality has been enhanced to process Bad Debt Relief transactions. If, after claiming bad debt relief from the tax authorities on receivables, a company receives a payment for any part of that particular debt, an adjustment to the bad debt relief already claimed must be made. If, after paying the bad debt relief to the tax authorities on payables, a company pays for any part of the supply of any goods or services, an adjustment must be made to the bad debt relief that is already paid.

This functionality has been further enhanced to easily handle Bad Debt Recovery and consequently the required VAT adjustments.

The bad debt claim report is added for auditing purposes. The report includes the bad debt relief transactions regarding receivables and payables that are part of the tax declaration submitted to the tax authorities.

### Editable Matched Amount & Quantity

To improve the usability of the process to match data in Accounts Payable, the Matched Amount and Quantity fields have been added to the Match Receipt Lines sessions.

### Procurement Retro-billing

To support retro-billing of purchase orders for Accounts Payable, a new option has been added to match retro-billed purchase order lines data.

## Additional VAT Information

In several companies, a tax date must be reported. This is the date when the goods or services were supplied or when the payment was received, if this date can be determined; and if the date differs from the invoice issue date. This field has been added to the Purchase Invoice Entry session.

## Aging Summary without VAT

The ability to run the Print Invoice-to and the Print Invoice-from Business Partner Aging Summary sessions without VAT to meet, amongst others, the 'French law on transparency'. The reports contain aging buckets with a corresponding number of invoices, total amounts without VAT and a percentage of total invoices without VAT.

## Support of Tax-Only Invoice in combination with Vertex

When tax-only Accounts Receivable-invoices were finalized in the system, the Vertex tax register was not updated. Therefore, the tax integration functionality is enhanced. The entered tax amount will now update the Vertex tax register through the 'Add Adjustment' web service.

## Error Log as Reference in Purchase Invoice Entry Session

To enhance the usability, an error log can be invoked using the corresponding error log icon in the purchase invoice entry sessions. The user will be directed to the payables error log session.

## Exclude Transaction Types from Workflow

Until now all transaction types were subject to workflow when workflow was enabled for manual Journals or Purchase Invoices. To meet the requirements of excluding specific transaction types for workflow, the system is now enhanced. For the transactions types excluded for workflow, the Workflow-Submit option and the workflow status are not available. This is applicable to ACP and GLD.

## Aging Analysis – Foreign Currencies

Infor LN is enhanced to make the aging analysis totals per foreign/transaction currency available, for comparison in the same currency as the customer/supplier. The totals by foreign/transaction currency are now stored and can be accessed through the Aging Analysis session.

## Batch Tax Period

When tax related transactions are registered, it is important that these transactions are registered in the correct tax period which determines when the transactions are declared to the appropriate tax authority. Therefore, two new (parameter controlled) checks have been added to the Purchase Invoice Entry session.

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When a purchase invoice is registered, the date of the purchase invoice must not be after the tax period of the transaction as claiming purchase VAT for future invoices is not allowed by many tax authorities.

## Default Purchase Type

LN will now also look in the Purchase Type Exceptions when a cost invoice is registered.

## Cost on ACP Invoice

The ability to use default ledger accounts and dimensions when matching a purchase invoice with an order line for an item that is linked to an item group with the option 'Cost to be Specified' selected. For items with the new option 'Specify Cost Optionally' selected, the AP Clerk can choose to use the defaults or deviate from these defaults during the match and approve process.

## Add Text to 'Cost to be Specified' Transactions

The user is now able to add a more elaborate text when specifying the costs in the Matched Purchase Invoice/Statement Line Transactions session. In this session, the Text Editor button has been enabled.

## Currency Difference Control

Ability to allow currency differences to be posted if Non-Finalized Transactions exist via a company parameter.

Additional checks are added to help prevent users to make mistakes:

- The system does not allow the user to calculate currency differences for a future period
- The Rate Date is defaulted based on the period selection
- The Document Date and Fiscal Period is determined based on the Rate Date

These changes apply to the Calculate Currency Differences sessions for Accounts Payable, Accounts Receivable and General Ledger.

New reports are added to the ACP and ACR calculate currency difference sessions:

- Currency Differences by Business Partner and Currency
- Currency Differences by Ledger Account and Currency

## Link Credit Notes to Invoices Based on WHT Code

The ability to link a credit note with withholding tax to the original invoice to prevent overpayment to the supplier and tax authority.

At the moment of registering the credit note, the user will be able to link a supplier credit note with withholding tax to the original invoice, with two remarks:

- The withholding tax codes and tax rates of the credit note and the original invoice must be the same in order to be able to link the credit note with the invoice.
- This with one exception: if the country parameter for Israel is selected, there is not restriction, because withholding tax is calculated and posted upon paying the invoice, which happens after linking.

## Reuse Supplier Invoice Number

Unfortunately, users can make mistakes when they register purchase invoices. If this happens, corrections are made which requires to re-use the purchase invoice supplier number. Normally it is important that the system blocks the registration of duplicate supplier invoice numbers, but in case of corrections, this check prevents the user to register the correction. Which is a problem, as the correct supplier invoice cannot be inserted and thus not reported.

New functionality has been added to allow a user to insert a request to reuse a supplier invoice number. After approval via workflow, the user can key in a correction invoice using the same supplier invoice number. LN will keep track on the number of times the supplier invoice number has been used.

## Print Open Entries by Sales/Purchase Type

The Sales Type and/or Purchase Type is added as extra selection criteria in the print sessions for Open Entries, Aging Analysis and Business Partner Balances.

## Split Anticipated Options in AP/AR Open Entries Reporting

The ability to choose to print Anticipated Unallocated- and/or Anticipated Advance Payments or Receipts on the Open Entries, Aging Analysis and Business Partner Balances reports.

## Traceability Total Amount Received by Pay-by and Pay-to Business Partner

To support the search on a total received amount by Pay-by business partner, a new option has been added in the Accounts Receivable 360 to zoom to Invoices by Receipt-related Documents.

The same has been added for a search on total paid amount by Pay-to business partner. A new option has been added in the Accounts Payable 360 to zoom to Invoices by Payment-related Documents.

## Easy Filtering on Pay-by Business Partner in Accounts Receivable 360

The Pay-by Business Partner field has been added to support easy filtering on this field in the Accounts Receivable 360 session.

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## Easy Filtering on Pay-to Business Partner in Accounts Payable 360

The Pay-to Business Partner field has been added to support easy filtering on this field in the Accounts Payable 360 session.

## Print Analysts Name on the Invoice-to Business Partner Aging Summary

Besides the analyst's code now also the name is printed on the report Invoice-to Business Partner Aging Summary (sort by Analyst).

## Write off Bad Debts in Combination with Bad Debt Relief

LN contains functionality to write off bad debts as well as functionality to reclaim VAT through bad debt relief processing, processes which are closely related. To align them in the different business scenarios which can be distinguished the necessary improvements have been made in respect of the resulting journal entries.

## Postings and Movements on Accounts Payable Invoices Grouped by Supplier

On a periodic basis, the payables administrator checks the balances of each supplier to see if action should be taken to control the open entries. The administrator also requires insight into the evolvment, the movements (payments, discounts, adjustments) of purchase invoices, unallocated payments, and advance payments. With the new functionality, the Payables Administrator can quickly report information on postings and movements on invoices, unallocated payments and advance payments. This information is also referred to as the 'AP ledger'.

You can print a summarized report for each supplier if a supplier requests information on the (open) invoices including the movements.

## Postings and Movements on Accounts Receivables Grouped by Customer

On a periodic basis, the receivables administrator checks the balances of each customer to see if action should be taken to control the open entries. The administrator also requires insight into the evolvment, the movements (receipts, discounts, adjustments) of sales invoices, unallocated receipts, and advance receipts. With the new functionality, the Receivables Administrator can quickly report information on postings and movements on invoices, unallocated receipts and advance receipts. This information is also referred to as the 'AR ledger'.

You can print a summarized report for each customer if a customer requests information on the (open) invoices including the movements.

## Debit Notes for Accounts Payable

In several countries, it is common practice to send vendors debit notes rather than waiting for the vendor to send a credit note. Sending debit notes speeds up the process of getting a refund for

incorrect purchase invoices from the vendor. If debit notes are used, the company can make sure that the correct amounts are paid to the vendors.

Changes have been made to the Transaction Type (tfgld0511m000) session. A new sub-category **Debit Note** can be selected within transaction category **Purchase Credit Note**. Transactions created in this transaction type are treated as Debit Notes.

The created Debit Notes can be viewed and printed from the new Debit Notes (tfacp2507m100) session. This session is added to the Accounts Payable \ Open Entry Control-menu and to the Accounts Payable Dashboard 360 (tfacp2560m000) session. These view options are available:

- By Document Number (Default)
- By Business Partner by Document Number.

The new Print Debit Note (tfacp2407m000) session can be started by clicking the **Print Debit Notes** command in the Debit Notes (tfacp2507m000) session and in the Purchase Invoice Entry (tfacp2600m000) session (for transaction types with the new sub-category Debit Note).

- Non-finalized transactions are always printed as **Draft Debit Notes**.
- Only finalized transactions with invoice status **Approved** or **Transactions Entered** can be printed as original Debit Notes.
- It is always possible to print a copy of the original version of the Debit Notes. The status of Debit Notes is changed to **Copy**.

Note that if an Original debit note is printed for an approved document, it is not possible to un-approve it.

The Purchase Invoice Inquiry (tfacp2600m100) session has been changed. It is now possible to start the new Debit Notes session from the **Reference**-menu.

## Invoice Scanning

The accounts payable department is often one of the most paper rich departments in an organization and it can represent the largest accounting cost burden due to manual systems and processes. Investing in an invoice management and processing system improves the department's productivity and, more importantly, increases the entire organization's bottom line.

In a recent survey, almost 200 staff members of accounts payable, finance, and procurement departments were asked for the challenges they faced and the changes they planned to make to improve efficiency in their departments.

43% of the survey respondents replied that their departments were still highly dependent on manual processes and predominantly paper-driven, and 36% said that long invoice and payment processing times remained major challenges.

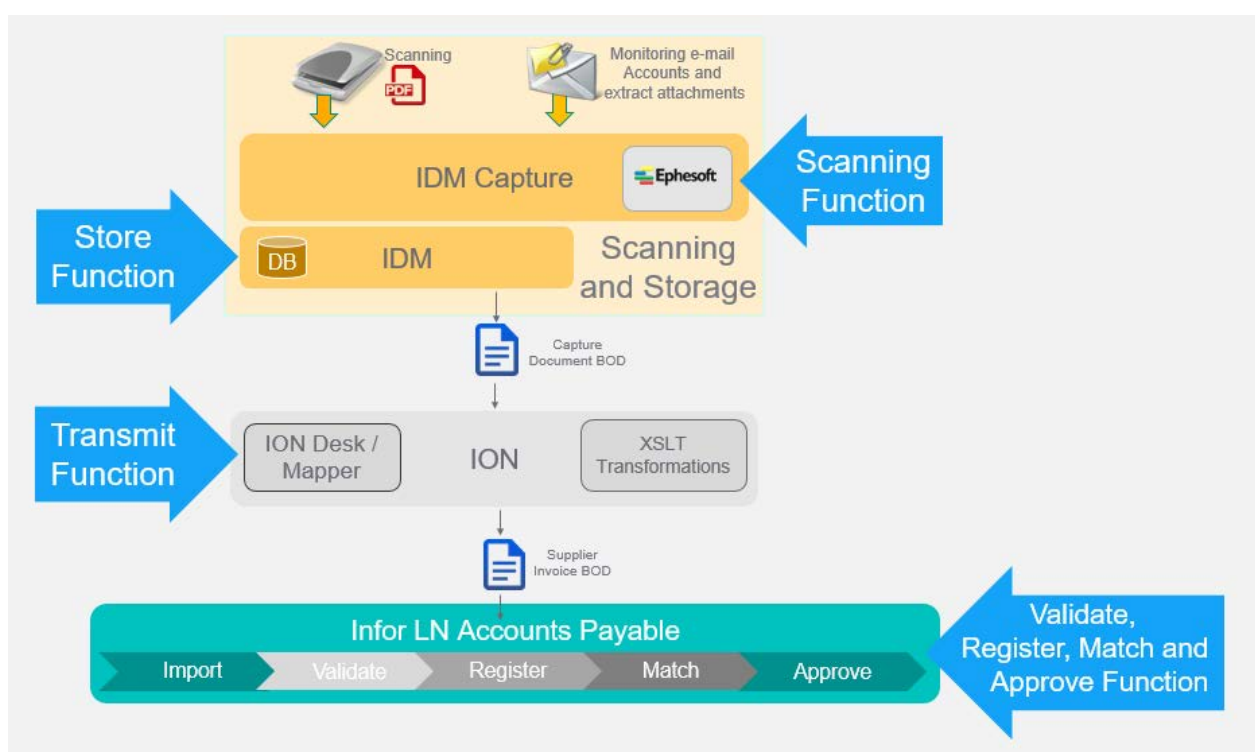
For these reasons, it is crucially important to automate the accounts payable process. This is accomplished through the integration of an OCR (Optical Scanning Recognition)/scanning solution with LN. The resulting benefits are:

- **Reduced data entry costs**  
Significant reduction of manual data entry which is tedious, inefficient, expensive and labor intensive. Manual input is only required for verification of those few invoices that show discrepancies.



- **Increased bottom line**  
Early payment discounts and the prevention of late payment penalties, double payments, and fraudulent invoices can considerably help increase the bottom line.
- **Manual error reduction**  
Decreased volume of numerous manual tasks, which in turn reduces the risk of manual errors. Slow and mistake-laden document processing lengthens the payment cycle, reduces staff productivity, adds late payment penalties, and causes missed early payment discounts.
- **Visibility, control and SOX**  
Reduction of backlogs and the improvement of visibility and transparency. Easy access to all invoice information: supplier data, amounts to be paid, taxes, line item details, workflow status, audit trail, and invoice images. Easier real-time status tracking of AP invoices. Complete audit trail, which is fundamental for compliance with the Sarbanes-Oxley Act.
- **Improved cash flow management**  
Visibility and control, along with timely and accurate reports, enable well-founded cash flow decisions. You avoid late payment penalties while taking advantage of payment discounts.
- **Improved financial reporting**  
Improvement of all types of reports, such as cash flow, treasury, production volume, lead time, and discount reports through immediate access to timely invoice information.
- **Lower storage costs**  
The amount of physical filing space is reduced and the cost of electronic storage will be reduced year by year as technology develops.

### Overview of the Entire Solution:



### Scan-function

IDM Capture, and more specifically the Ephesoft component of IDM, monitors specific folders and email accounts for any new documents. These are picked up, scanned and read. To avoid complexity, redundancy and performance issues, this tool does not replicate metadata originated

from LN in the process. This process results in a Captured document (PDF) and a CaptureDocument BOD.

**Store-function**

Infor Document Management is used to track, manage, and store documents, and reduce paper.

**Transmit-function**

Infor Intelligent Open Network (ION) is the middleware used to receive the CaptureDocument BOD, transform this BOD to a SupplierInvoice BOD, and transmit this BOD to LN.

**Validate, Register, Match & Approve-function**

In Infor LN purchase invoices are validated, registered and, if applicable, matched with receipts or orders and subsequently approved.

**IDM Capture**

To process purchase invoices effectively and efficiently, the mandatory fields to be filled in the CaptureDocument BOD are prescribed and set.

This minimum set of information determines exactly which data is to be imported in LN by the SupplierInvoice BOD. This ensures the completeness of the information that is delivered, which makes the overall process of handling purchase invoices imported through the BOD run smoothly.

**Changes in LN**

- Fixed rules are available to validate the accuracy and context of the purchase invoice data imported into LN by the SupplierInvoice BOD. These rules ensure that the purchase invoices imported in the BOD are handled accurately, thus fulfilling a gatekeeper role.  
In the Define Validation of Received Invoices (tfacp1117m000) session, the user can specify whether unsuccessful validations must result in blocking errors or warnings.  
This setting allows the user to meet specific business requirements regarding the process of handling purchase invoices imported by BODs. Validation is aimed at comparing the data elements in the BOD with the corresponding data present in LN.
- SupplierInvoice BODs are imported in LN and the validation process is automatically started. In addition to the header information, the invoice lines and tax lines are also imported into LN.
- Successfully validated invoices receive status Validated, whereas unsuccessful validations result in status Validation Error.  
If the validation results in a warning, the user can either accept or discard the result. Acceptance makes the invoice eligible for revalidation and discarding the warning requires user intervention to solve the issue.  
If the validation results in an error, the user must solve the error. If the users conclude that processing the purchase invoice is inappropriate after assessing the validation warnings and errors, they can set the status to Canceled. If no warnings or errors are present anymore, revalidation will set the invoices to status Validated.
- The received purchase invoices can be viewed in the new Received Invoices (tfacp1110m000) session. Users can register successfully validated invoices as actual purchase invoices in the new process session Register Received Invoices (tfacp1210m100). This session creates a batch for each transaction type, date, and user. The purchase invoices are added to the batch or batches and are accessible using the standard transaction

entry sessions. The received purchase invoices can be viewed in the new Received Invoices (tfacp1110m000) session.

- Existing LN sessions are used to match and approve the registered purchase invoices.

## Purchase Invoice Scanning with IDM Capture and the Process Payables Workbench

When the SupplierInvoiceBOD is imported into LN, the validation process is automatically started. The validation process can result into validation errors if invoices are not compliant with validation rules. The user can decide to skip a certain rule and validate the invoice again.

The matching algorithm has been changed and now considers the purchase invoice line information.

The matching algorithm mainly focuses on the matching of purchase order lines or purchase order receipts. This happens in one or two steps:

1. Step 1; matching of invoice lines using the invoice line item, quantity, price and the net line amount. This step can result into a match of one specific or multiple invoice lines to one or multiple order lines/receipts. In this step, automatic matching with a price difference is also possible.
2. Step 2; only applicable for invoice lines that were not matched in Step 1. A matching is done per group of (invoice line) item, packing slip and order with Purchase Order Lines/Receipts where the same item, order or orders appear on the same packing slip. The match in step 2 is only (and only as a whole) accepted if the difference of the total matched order amount and the total of invoice line amounts falls within the matching tolerances. When the match is accepted, for any differences of these totals, an additional cost line is automatically generated.

The invoice lines with line type **Order** have an **Order** and **Packing Slip** field, but if one or both of these fields are empty, it is assumed that the Order and Packing Slip on the invoice header are applicable for the invoice line.

### Match to Order

If the matching procedure is **Match to Order**, the invoice line quantity and order quantity are used to match (the lowest quantity in one of these fields). The invoice line match can automatically be created with the order line, even if no receipts are available. If the receipts are not final, or inspections are still required, the invoice status will be **Partially Matched**. When receipts or inspections are done in warehousing, the status is automatically changed from **Partially Matched** to **Fully Matched**.

If a final receipt for goods is available and less is received than matched, at the next match of the invoice, the matched quantity is automatically reduced. In this phase or later, backorders can automatically be matched to the same invoice line.

### Match to Receipt

If the matching procedure is **Match to Receipt**, the matching algorithm matches with the receipts (and in case of inspections, what has been approved). If no receipts have been assigned to an invoice, the invoice remains **Partially Matched**. When the net invoice amount is fully matched,

and any additional cost lines have been created (so there is no amount to be assigned), the status of the invoice changes to **Fully Matched**.

### Matched Lines (tfacp2556m000)

In the Process Purchase Invoice (tfacp2607m000), Purchase Inquiry (tfacp2600m100), and Purchase Entry (tfacp2600m000) sessions, matched lines can now be viewed in the Matched Lines satellite session.

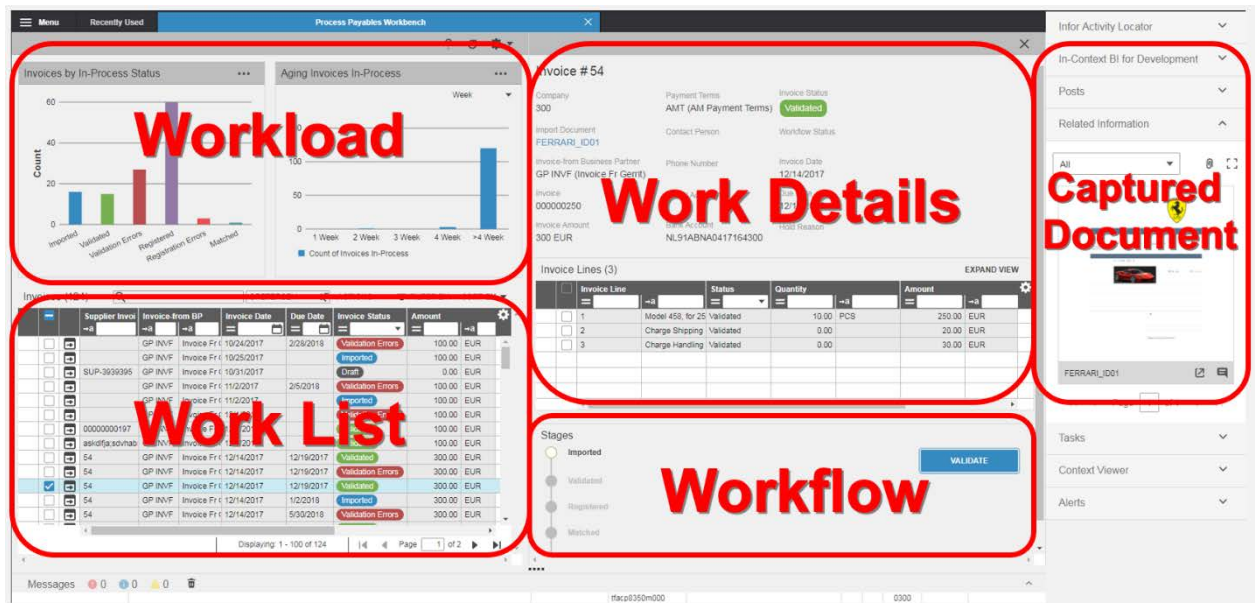
The Matched Lines satellite session is now always populated. Previously, it was populated at runtime when a user viewed the data. For existing data, the Rebuild Matching Data by Invoice (tfacp2256m000) session has been created.

### Invoice Lines (tfacp5510m000)

The user can now manually create or change the accounting distribution per invoice cost line. The same applies to the (additional) cost lines of order-related purchase invoices.

### Process Payables Workbench (tfacp8350m000)

A new Process Payables Workbench session has been added. This session is designed to monitor the payables process and to handle exceptions.



By default, this workbench shows an overview of the Business Partners for which the user is responsible. This responsibility can be modeled in the Authorization and Security Module (TCSEC) module or can be handled via the Payables Analyst attribute on the Invoice-from Business Partner role.

## Cash Management

### Bank Statement Type – BOD

To support the requirements on bank statement processing, the LoadBankStatementBOD in Infor LN has been updated. Infor LN can now deviate the 'StatementType' mentioned in the BOD, for example CAMT.054.

### ISO 20022 Payment Standard

Banks are becoming more flexible, therefore customers must be more flexible in setting up XML (ISO 20022) payment files. Some banks already support domestic and foreign payments in the same payment file, instead of the 'traditional' separate payment files system for domestic and international payments (ASCII DTA). The ISO 20022 format for payments (and direct debits) is now supported.

### Disable Bank Balance Check

When companies process their bank statements, the opening and closing balance of the bank statement is used to check if all transactions on the bank statement are entered with the correct amount. Some customers also enter other types of cash transactions. These transactions do not come with a bank statement that contain an opening and a closing balance. Therefore an additional option is added to the transaction type for Cash; 'Calculate Closing Balance Automatically'. When this option is selected, the closing balance is automatically calculated based on the opening balance and the entered transactions. This simplifies entering these kind of cash transactions.

### Allow Multi Currencies in one Bank Statement

Some customers use the EBS (electronic banking system) conversion data to import not only bank statements, retrieved from actual banks, but also files which hold intercompany settlements. These settlements can be in different currencies. EBS has been enabled to convert non-MT940 files with different currencies on line level.

### Add Domestic Bank ID to Payment Advice

The Domestic Bank ID is needed to validate the Business Partner bank relation and the company's own bank relation in the payment advice and the direct debit advice. Therefore, the 'Domestic Bank ID' of Bank Branch is added to the Payment- & Direct Debit Advice Lines sessions.

## Repeating Remittance Information Tags

The ISO 20022 standard allows repeating remittance information tags, instead of concatenation of values in one remittance information tag per SEPA guidelines. This is now supported via a Repeat Remittance Information Tag option in the XML Payment/Receipt Layout session.

Also, an option Use Separator between Mapped Elements in the XML Payment/Receipt Layout session is added, to have an empty separator (=no separator) instead of a space when the separator field is left blank.

## Cash Forecast – Exclude Bank Accounts

The ability to exclude the balance of certain cash accounts linked to a transactions type from being used in the cash forecast. To support this, an option has been added to the transaction type.

## Payment Process Selection Criteria

To speed up the payment process, a few changes have been made:

- In the Selection of Invoices for Payment session, the financial business partner group has been added as a selection criteria for both purchase and sales invoices.
- An additional session has been added to do a global update of payment advices.
- Payment Batch and Payment Batch Status is added to several sessions to support the selection of anticipated payments.
- A super user for payments is now able to reject a range of selected anticipated payment documents.

## Post Withholding Tax to Actual Account for Anticipated Advance

It is now possible to select if Withholding Tax for Anticipated Advance Payments should be posted directly to the actual account during 'Post Payments' process. This is required in some countries, amongst which is India.

## Daily Cash Report

The ability to print the Daily Cash Report in not only the transaction currency, but also in the local currency.

## General Ledger

### GL Diagnostics Workbench

To be able to monitor the general ledger on a daily basis and thereby improve the reporting processes, the “GL Diagnostics Workbench” session is introduced. With this workbench, issues, exceptions and errors regarding transactions in the general ledger can be detected and solved on time and adequately. With this enhancement, an important prerequisite of securing a quicker and smooth period closing and reporting process, is accomplished’.

### Opening Balance on Business Partner reports

In the Business Partner Balances report (tfgld5423m000), the opening balance of the fiscal year is also included.

### Change Search Key Question for Dimensions

The ability to adjust the dimension Search Key in case the description of a dimension is modified is now supported by Infor LN. The search key is adjusted after the user has accepted the warning message.

### New User Interface for the Year/Period Session

A new session ‘Year’ has been created to make it easier for the user to create and maintain the financial periods and update the status of these periods.

### ‘Sort by Print Sequence’ for Ledger History Inquiry

An option is added to the Ledger History session and the Chart of Accounts session to enable the sorting by ‘Print Sequence’.

### Project Cost Distribution

To enable the import of project transactions for more than one project through an upload of ledger transactions (so in combination with project transactions) a new parameter (a group box named “Project Cost Entry View”) is added in the Transaction Types session.

### Import External Journals

To enable a more user friendly and flexible way to import of Journal vouchers via excel or exchange. It is now possible to import a journal where some references like ledger account, business partner or tax code do not exist. A new Import Journal Workbench is created to allow the user to import journal vouchers using excel and to check, modify and post journal vouchers that have been imported via excel or exchange.

## Currency Differences Target Account

Ability to post currency differences calculated on monetary accounts to more than one set of gain and loss accounts using Target Account Groups. A group can be linked to multiple monetary accounts thus resulting into the gain or loss being posted to the respective ledger account of the linked Target Account Group.

## Multi-Functional Currencies on Journal Vouchers

In multi-currency environments, correction transactions are needed where the spot rate to be used for the translation to local, reporting1 and reporting2 is not the rate at journal voucher creation. It should be possible to correct the amounts in not only the local currency, but also to the other functional currencies. To support this, a new transaction type subcategory 'Multi-Functional Currencies Journal' is added to allow maintaining amounts in transaction currency AND the home currencies.

## Print Integration Transactions with Reconciliation Data

To have more selection options when printing the Integration Transactions by Business Flow, the selection within this session has been extended from 2 to 5 reconciliation element ranges.

## Automatic Balancing of Close Year

A new method for year closure 'Individual with Closing Balance' has been added. This method generates journal vouchers for:

- Close P&L
- Closing of P&L Account
- Closing of Balance Sheet
- Opening of Balance Sheet
- Result of Previous Year

Improvements have been made regarding segment accounting. It is no longer required to use 'Dimension Accounting on Retained Earnings' when Segment Accounting is implemented. In this case, only the segmented dimensions will be posted.

## Display of Detailed Opening Balance and Ledger History Transactions

Two new sessions have been created to support an easy export to excel for:

- Opening Balances – Ledger / Dimension Combination History
- Ledger / Dimension Combination History



## Display of non-Finalized and Finalized Transactions

For analysis purposes, it is now possible to view the Non-Finalized- and Finalized Transactions in a list window. Different view options have been added to provide more insight into these transactions.

## Ledger History – Currency Analysis by Period

From the currency analysis for a range of periods the user can now zoom to the distribution by period for a more detailed analysis of the ledger history.

## Navigation List View in Chart of Accounts and Dimensions

The new user interface with a navigation list on the left and details view on the right has been implemented in the Chart of Accounts and in the Dimensions sessions.

## Reprint Journal by Finalization User

It is now possible to use the Finalization User as a selection criteria in the Reprint Journal session.

## Site as Dimension Type

In the Group Company Parameters, it is now possible to select 'Site' as 'Linked Object' in the Dimension Types. This allows the sites to be imported into the Dimensions.

## Automatic Population of Dimension Type Values – Cross Validation Rules

When entering journal transactions to be posted in the general ledger, the system will as from LN 10.6 automatically populate default dimension type values in the case only one dimension type value is possible in combination with the entered GL account/other dimensions.

## Report Contra Account

Together with the evaluation of the general ledger at month end, the transaction and ledger history of the finalized and non-finalized transactions are examined. By also reporting the contra accounts on the transactions, you have more information about the transactions than was available with the transaction line with only its original ledger account.

Contra accounts for a GL transaction could already be reported in several print and display sessions. However, if a document includes several document lines, all the other accounts used in these lines are reported as the contra accounts of a selected line. This can lead to an information overload. With the new functionality, only one contra account is determined for each journal transaction line that is generated.

In the **Document History-Transaction Lines (Finalized & Non-Finalized)** session, the contra account is now displayed. Optionally, authorized users can change the contra account.

For manual transactions in a journal voucher, the contra account can now be specified. Defaulting logic has also been added. This new functionality applies to the **Journal Voucher Document** session and to **Recurring Journals, Transaction Schedules** and the **Imported Journal Workbench**.

Besides the **Document History-Transaction Lines (Finalized & Non-Finalized)** session, these sessions have also been modified to display the contra account:

- Non-Finalized Transaction Details
- Finalized Transaction Details
- Finalized Transactions
- Non-Finalized Transactions

These print sessions have been modified to report the contra account:

- Print Finalized Transactions – Ledger Account
- Print Non-Finalized Transactions

## Detailed Cash Flow Statement

A cash flow statement is a financial statement that captures the flow of cash into and out of the organization. This statement shows the cash position of an organization and is very often broken down into the operating, investing, and financing activities by section. Positive net cash flow from a section means that an organization generated more cash than it spent on that section's activities. Negative net cash flow means that the organization spent more than it generated on those specific activities.

The cash flow statement is to be used by:

- Shareholders
- Accounting department staff
- Potential investors
- Potential lenders and banks

Project oriented organizations do not only want to view the cash flows by operating, investing, and financing activities, but they also want to relate their cash flows to projects, as the projects are the main drivers for cash in and cash out. Other companies may be more interested in cash flow information by sales area or other dimensions.

A cash flow statement that allows slicing the data in various ways help identify the parts of a company whose cash flows are healthy and those whose cash flows require further attention. One of the ways of slicing the data is using a breakdown and a multilevel grouping of the cash transactions by type of expense, in addition to slicing by financial dimension data.

For this purpose, the new master data session Cash Flow Information Structure (tfgld2560m000) is introduced with a parent/child reporting structure that uses Cash Flow Information Codes. These codes are linked to ledger accounts through a new field in the existing Chart of Accounts (tfgld0508m000) session.

A new field is added to the Transaction Types (tfgld0511m000) session that allows excluding the transactions of a specified cash transaction type from being used for the detailed cash flow information.

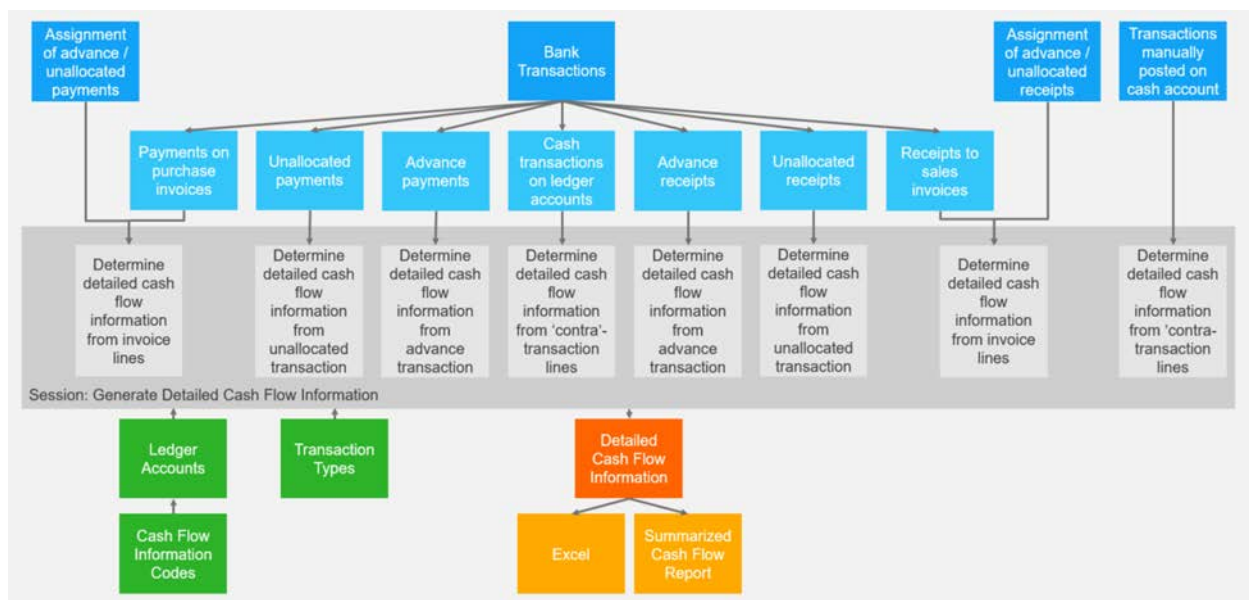
The Generate Detailed Cash Flow Information (tfgld2261m000) session is introduced to generate detailed cash flow information based on the finalized cash transactions of a cash account. Of course, only the cash accounts of included transaction types are used. This new session takes the required information from:

- The sales invoice lines. Amongst other data, the ledger accounts and dimensions used for the revenue and tax transactions are determined. If available, the sales order line numbers and item codes are captured as well.
- The purchase invoice lines. The ledger accounts and dimensions used on the matched invoice lines, cost lines and tax lines are determined. If available, the purchase order line numbers and item codes are captured as well.
- For all other cash transactions, the ledger account and dimensions used on the contra transaction line or lines are determined.

The generated detailed cash flow information is displayed in the new Detailed Cash Flow Information (tfgld2561m000) session. The details can be viewed and filtered using easy filtering. From this session, the standard export functionality is available to export the required information to Excel for further analysis.

Furthermore, the Print Summarized Cash Flow Information (tfgld2461m000) session is added to print summarized cash flow information.

Graphical representation:



## Print Tax Declaration Invoices Check List

At the end of each tax period, a company is obliged by the tax authority to submit the tax declaration. The data on the declaration must be correct. If the declaration is incorrect, the

company can run into extra costs due to penalties and be subject to additional tax audits. Therefore, to ensure that the tax declaration is in accordance with the tax regulations, the accountant crosschecks the data on the declaration with the data available in the financial application.

The Print Tax Declaration Checklist (tfgld1410m100) session is introduced. This session compares the data in the tax declaration lines with the data in the tax analysis for the transactions within the selected range. The result of this analysis is printed on the Tax Declaration Checklist. Depending on the setting of the Print Differences Only option, all lines are printed, or only the lines where the tax declaration cannot be reconciled with the tax analysis.

## Prevent Transactions by Segment for Intercompany and Bank Transactions

In LN, in a Segment Reporting environment, all the transactions are made on segment level to be able to produce a Trial Balance by Segment. For this reason, it was decided to ensure that also the Intercompany and Bank- transactions are posted by Segment.

Some customers require that these transactions are not split by segment and are posted to a generic segment.

### Group Company Parameters (tfgld0501m000)

In the Group Company Parameters session, these parameters have been added:

- **Prevent Intercompany Transactions by Segment:** if this check box is selected, the Intercompany transaction (both in source and target company) is not split by segment, but uses the 'generic' segment setup in the Inter-Company Relations (tfgld0515m000) session.
- **Prevent Bank Transactions by Segment:** if this check box is selected, the Bank transaction is not split by segment, but uses the 'generic' segment setup in the Cash Transaction Type (tfgld0511m000) session.

## Protocol Settings by Financial Company

It was required to have a company indication as a prefix in the protocol reference for companies that have multiple finance companies for one legal entity.

In the Protocol Settings by Financial Company (tfgld0133m000) session, the fields **Use Prefix** and **Prefix** have been added.

If the **Use Prefix** check box is selected, the **Protocol Reference** should start with the value that is specified in the **Prefix** field.

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## Intrastat

### Update Intrastat with Invoice Data

Intrastat records now include the Sales Invoice data when the (original) invoice is printed.

Purchase invoices are used to update the Intrastat records when the invoice is approved. If the purchase invoice is not approved, the related Intrastat data is cleared.

## Taxation

### Tax Code Usage

It is now possible to create dedicated purchase and/or sales tax codes. For this purpose, a new Tax Code Usage field, with the Purchase, Sales, and All (default) options is added to the Tax Codes by Country (tcmsc0536m000) session.

In general, you can only view and select 'Purchase' or 'All' tax codes in Accounts Payable and only 'Sales' or 'All' tax codes in Accounts Receivable. In cash management, the type of transaction determines the tax code usage. In General Ledger, the Tax Origin field determines the tax code usage.

### Bank Transactions - Tax Date

It is now possible to report, apart from the transaction date and the document date, a date for VAT using the Bank Transactions (tfcmg2500m000) session. In most cases, this is the value (cash) date.

### Aggregate Tax

It is now possible to configure complex tax scenarios, involving multiple layers of taxes and different tax bases, using the aggregate tax code functionality.

Aggregate tax code supports the following functionality:

- Specification of Amount Origin to be used as the taxable amount. Order Line Price and Customs Value options are available.
- Up to 9 layers of tax code can be linked to an aggregate tax code. For each tax code layer, you can now specify the taxable amount origin, which may include other tax code layers, as well.

Wherever aggregate tax code is defaulted or entered, there is also a possibility to verify the tax breakdown for that transaction.

Tax calculation considers the amount origin and the different layers of tax codes linked to the aggregate tax code.

Aggregate tax code can be used in countries with complex taxation systems.

The purchase invoice date of the invoice that is registered must be within a maximum number of months before the tax-period of the transaction. Effectively, the VAT cannot automatically be claimed and an approval from the tax authority is required to claim the tax.

## VAT Export Date - Defer Tax Declaration

Certain exempt tax transactions need to be postponed for tax declaration, because there needs to be proof for the exemption, e.g. documents from customs. The same can apply to sales correction invoices as well. The user can now:

- Mark certain tax codes by country to by default being 'Deferred for Declaration of Tax Transactions.
- Mark Correction Invoices as 'Deferred for Tax Declaration' in the Tax Parameters.
- Change the Tax Declaration Status of a line in the Tax Analysis from Deferred to Ready for Declaration or vice versa.

## External Tax Provider

In addition to supporting Vertex as tax provider, LN now supports Avalara tax interface.

Also, address validation by external tax provider can now be optionally turned off. This may be used when an address relates to a new area being developed and not yet known in postal system.

## Controlling

### Generating Allocation Relations in Overhead Cost Allocation

When multiple source cost centers are allocated to multiple target cost centers, the system LN can now generate individual allocation relations with a single entry, improving the usability significantly.

## Taxonomies

### Archiving Session for Flexible Reporting

Flexible reporting structures or taxonomies in the general ledger can be created in LN. The Archive and Delete functionality of closed taxonomies has been added to maintain the structures and/or versions that are closed.

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## Chapter 13 People

# 13

This chapter provides information about the task and time related enhancements included in this release.

### Master Data

#### Tasks

In the General Tasks (bpmdm0150m000) and General Expense Types (bpmdm0155m000) sessions, a flag has been introduced to define whether the task or expense type is still active. Entering new time sheet lines in LN is only possible for active tasks and expense types. You can also define a cost component as part of the General Task. This cost component is to be used for defaulting, during time entry.

#### Employee Department

The employee department at the time of entry is retrieved and stored. The existing report by employee department is now sourced based on the transaction data.

#### Approved Information

The information on a time sheet line who approved and when it was approved has been introduced.

#### Pictures

Image has been added as report input field for the key employee report as well as certificate reports. Using Report Designer (see: Chapter 1) such picture can be added to a report.

#### Additional Employee Information

Previously, some of the employee information was only available in the Project or Service packages. To make this information more generally available, the following changes have been made:

- The Trade Group field has become a display field in the Employees - Project (tppdm8101m000) session and has been added as an entry field to the Employees – People (bmmdm0101m000) session.
- The Supervisor field has become a display field in the employee sessions in the Service package and has been added as an entry field to the Employees – People (bmmdm0101m000) session.
- The Title field has been added to the Employees – General (tccom0101m000) session.

## Qualification Type

The Qualification Type option list has been introduced to qualify skills. The Qualification Type includes these options:

- Skill
- Competency
- Credential

A qualification type is added to a skill in the Skills (tcppi0110m000) session. Skills are used in various sessions in Project, Quality and Service.

**Note:** Qualification types are not used as search criteria.

## Hours and Expenses

### Time Entry

The descriptions for tasks, cost components and the like displayed for the record selected, have been moved to the grid, for better visibility. Customers are recommended to personalize the screens if not interested in the descriptions.

### Navigation List View on Employees

The new user interface with a navigation list on the left and details view on the right has been implemented in the Employees session.



# Chapter 14 Localizations

# 14

## Czech Republic and Slovakia

### Additional VAT Information

In the Czech and Slovak Republic, companies are required to add extra VAT information to purchase invoices, bank transactions, and journals for the purpose of VAT reporting.

#### Purchase Invoices:

- **Invoice Receipt Date:** In the Czech and Slovak Republic, the invoice receipt date must be recorded when the purchase invoice is registered.
- **Original Document Number:** In the Slovak Republic, when a credit note is registered, the original (supplier) invoice number must be recorded for this transaction.

#### Bank Transactions:

- **Registration Document Number:** In the Czech and Slovak Republic, the external receipt number, supplier payment identification, customer receipt identification, or other document numbers must be registered with the bank transactions for advanced payments, advanced receipts, and cash journals.

#### Journal Transactions:

- **Tax Date:** In the Czech Republic, the date of the original document is used for VAT reporting.
- **Registration Document Number:** In the Czech Republic, the external document numbers must be recorded when a journal transaction is registered. Examples:
  - If a customs declaration for sales is posted as a journal transaction to record the VAT, the customs declaration number must be recorded with this journal transaction.
  - In case of VAT corrections, the reference to original document identification must be registered.
  - In case of other documents that are posted as a journal transaction, the reference to original document identification must be registered.

### Cash Voucher

It is now possible to print cash vouchers whenever one of the following cash transactions is posted in the Bank Transaction session:

- Payment (including advanced and unallocated)

- Receipt (including advanced and unallocated)
- Journal credit on cash account – payment
- Journal debit on cash account – receipt

## Payment file/EBS

A payment file layout has been created specifically for Czech Republic. Conversion logic has been added to convert the MT940 to EBS.

## Fixed Assets

Two new depreciation methods are introduced. One for Slovakia and one for Czech Republic. These methods cover specific local requirements to calculate depreciation amounts.

## Inventory Transaction Reporting

In the session Print Inventory Variances (whina1416m000) an option has been introduced that allows the user to print (non-)processed transactions only. This is a new filter.

In the sessions Print Warehouse Journal (whinr1410m200) and Print Inventory Transactions by Order (whinr1411m000) the option to also print the inventory value of transactions on the transaction overview has been provided.

## Variable Symbol and Tax Date to Received Purchase Invoices

The ability to register a variable symbol and tax date when a purchase invoice is keyed in in the Received Purchase Invoices session.

## Tax Analysis – Discount VAT

The invoice fields in the tax analysis are now filled with related invoice information instead of the (intercompany) cash document for tax on deductions postings.

## Payment File

A new payment file report has been added for Slovakia.

## Convert EBS (MT940)

Ability to accept other delimiters than '?' in MT940 files.

## Germany

### Reason for Payment in Receivables for Z4 reporting purposes

Incoming receipts and outgoing payments are subject to the German Z4-reporting. To fully cover the Z4 reporting requirements for Germany a “reason for payment”-field is in 10.6 added on the Receivable side since it was missing there. The field is available in Accounts Receivable when the Z4 reporting parameter is set in which case it is defaulted from the one defined in session Pay-by Business Partner Reason for Payments (tccom4116m000).

### Data Extraction for Tax Audit

German Tax Auditors are allowed to request all tax dependent data as files according to Requirement GdPDU / GoBD. To fulfil this requirement, new tables are added to enable the definition of data sets for tax dependent data, and this data sets can be exported and given to the auditors. During export the data are formatted into flat files and described in an xml-file, which is optimized for the auditor software.

## Italy

### Exemption Tax

In December 2016, the Italian tax authority “Agenzia delle Entrate” has adopted the resolution “n 120E” which makes it mandatory that the tax exemption letter sent to the suppliers, must have a reference number (the “Exempt Certificate”) and the maximum tax exempt amount. This Tax Exemption Limit must be verified before the sales and purchase invoices are registered in the system.

The system is enhanced to comply with the new requirements stated in the resolution. All purchase invoices must scale the amount charged by the available Tax Exemption Limit. After this limit is reached, the exemption can no longer be applied. For the sales invoices, each time a sales invoice is created for a customer, who sends the tax exemption letter, the amount must be deducted from the available exemption Tax Exemption Limit. After this limit is reached, the exemption can no longer be applied and the invoice cannot be VAT exempt.

## Portugal

### Auxiliary Report for COPE

A new auxiliary report for COPE, including all outstanding invoices at period end, for Business Partners with an address outside Portugal, is added in Infor LN for the ACR and ACP modules.

## GLD-Standard Audit File Tax

To support the Portuguese legal requirements, the data structure of the Standard Audit File for Tax purposes (SAF-T) and the corresponding XSD file has been modified.

## Spain

### Immediate Supply of Information

As from mid-2017, the Spanish Tax Authorities introduced the “Immediate Supply of Information” system, by which it is required to declare tax ‘real-time’ (within 4 days) and not retrospective (quarterly/yearly; model 340) as before. The declaration must be sent online through web services (local.ly connector) based XML messages, which consist of a standard header with ledger owner information and invoice details.

To cover this requirement, a new Spain parameter is available in the Implemented Software Components (tcom0500m000) session as from version 10.3. If this parameter is selected, a Spain menu with related menu options is added to the Localizations menu. With these menu options, the user can set up, maintain and process tax declarations meeting the specific “Immediate Supply of Information” requirements. Users can set XML-outbox-, inbox- and archive directories, select transactions to be declared, generate XML files, and process additions (Correcto, Incorrecto, Aceptado con errores).

## Malaysia

### Fixed Asset Disposal Free of Charge

In some countries, when fixed assets are disposed free of charge, tax is still applicable on the transaction based on the residual value or market value. This can now be handled using the Manual Sales tax only invoice and Shifted tax code functionality.

This is applicable in Malaysia.

### Deemed Supply – Gifts

In case gifts are given to employees or business partners and the value of these gifts exceed a specified amount, these gifts are considered as supply and tax must be recorded and paid. This functionality is now supported as part of ‘Malaysia’ localization. Gifts can now be recorded in the Gift Registrations (lpmys1100m000) session. These can be periodically processed to create tax adjustment transactions. When processing the tax adjustment transactions, journal vouchers related to tax are created.

## Deemed Supply – Lost / Damaged Goods

When goods on which input tax has been claimed are lost or damaged, the output tax must be recorded and paid. This functionality is now supported when 'Malaysia' localization is implemented. It is now possible to record the required tax adjustment when registering the inventory adjustments. This is possible using these sessions

- Adjustment Order (whinh5120m100)
- Cycle Counting Order (whinh5600m000)

When processing the tax adjustment transactions, journal vouchers related to tax are created.

## Tax Adjustments

Tax adjustments can now be created when a billable line has not been invoiced within certain number of days. The tax adjustments are reversed when the billable line is subsequently posted.

## Mexico

### E- Accounting (LEA) Adoption

To enable E-accounting for Mexico, Infor LN is enhanced to create a CSV file with extracts of tables such as the Chart of Accounts. This CSV file can be in any required format.

The query content XML file that needs to be created will specify the information included in each of the columns of the CSV file.

## Russia

### Invoice Layout

Russia specific invoice layout is now supported when 'Russia' localization is implemented. These layouts are supported:

- Original Invoice
- Correctional Invoice

### Modify Currency Rate Information

Currency rates information can now be changed after an invoice has been printed.

## China

### Inventory Movement Reporting

The print option By Fiscal Period has been added to the Print Warehouse Journal (whinr1410m200) session. In addition, the Fiscal Period is also added to the selection range.

Per specified combination of Company and Enterprise Unit, a totalization will take place of all (past/actual) item inventory transactions that took place concerning the specified selection of warehouses, items, and item groups, during a specific range of fiscal periods.

The report shows the incoming and outgoing goods flows for (part of) an organization, as well as the item inventory levels and value at the start and close of a selected period of time.

## Israel

### Receipt Acknowledgement Improvements

The receipt acknowledgement report is improved to comply with the regulations for Israel.

### Delivery Notes

When shipping goods, a delivery note is required to be issued. Additional attributes specific to Israel has been added to the delivery note printed. These are

- Name and Company ID of the sending party
- Name and Company ID of Receiving party.

### Audit Files

In Israel, the tax authorities demand that every computerized accounting system management software that is registered, must contain the option to issue a computerized file in a fixed prescribed format. Two files must be generated: INI.TXT and BKMVDATA.TXT.

When the Israel country parameter is selected, functionality is available within the LP package to setup the required master data and generate these files in the required format.

## Chapter 15 DEM Content Pack

# 15

This section lists all the new, modified, and expired business processes and static conditions in the LN 10.6 DEM content pack.

### Overview Processes

| Business Process | Description           | Change   |
|------------------|-----------------------|----------|
| OAD010           | Defense Contractor    | Modified |
| OCI010           | Project - Service     | Modified |
| OGM010           | General Manufacturing | Modified |
| OIM010           | Industrial Machinery  | Modified |
| OIM020           | Heavy Equipment       | Modified |
| OIM101           | Internal Maintenance  | Modified |
| OMP010           | Design to Deploy      | Modified |

### Main Processes

| Business Process | Description  | Change   |
|------------------|--|----------|
| MAM003           | Manage Prospect/Customer Activities (CRM) & Sales/Service Quotations | Expired  |
| MAM510           | Parameters / Master Data (Marketing Campaigns)                       | Expired  |
| MAP010           | Register / Approve Purchase Invoices / Credit Notes                  | Modified |
| MAR001           | Control Customer Cash Flow   | Modified |
| MAS010           | Manage Fixed Assets  | Modified |
| MAS510           | Parameters / Master Data (Fixed Assets)                              | Modified |
| MCM040           | Manage Cash Flow   | Modified |
| MCO020           | Create/Maintain Prospect/Customer                                    | Modified |

| Business Process | Description   | Change   |
|------------------|---|----------|
| MCO030           | Create / Maintain (Potential) Supplier                      | Modified |
| MCO510           | Parameters/Master Data (Common/Business Partners)           | Modified |
| MFI003           | Process Transaction Entry                                   | Modified |
| MFI010           | Generate Integration Transactions                           | Modified |
| MFI510           | Parameters / Master Data (Financial Management)             | Modified |
| MFM040           | Plan/Subcontract Freight                                    | Modified |
| MFM050           | Manage / Close Freight Order                                | Modified |
| MFM510           | Parameters / Master Data (Freight)                          | Modified |
| MIT010           | Change ERP Application Configuration                        | Modified |
| MME510           | Parameters / Master Data (Hours Accounting)                 | Modified |
| MMN010           | Complete Production / Assembly Order / Job Shop             | Modified |
| MMN510           | Parameters / Master Data (Production / Assembly)            | Modified |
| MPA014           | Maintain Product Data                                       | Modified |
| MPA510           | Parameters / Master Data (Product Control)                  | Modified |
| MPB510           | Parameters / Master Data (Budget Control / Cost Accounting) | Modified |
| MPB511           | Parameters / Master Data (Cost Accounting)                  | Expired  |
| MPL001           | Company owned Supply Forecasting to Customer owned WH       | Modified |
| MPL006           | Actualize the Demand Planning                               | Modied   |
| MPL010           | Actualize the Material Requirement Planning (Supply)        | Modified |
| MPL011           | Dispatch Production Order                                   | Modified |
| MPL020           | Actualize the Master Planning (MPS)                         | Modified |
| MPL200           | Resource Management   | Expired  |
| MPM020           | Change Business Processes and (Data) Authorization          | Modified |



| Business Process | Description  | Change   |
|------------------|--|----------|
| MPM510           | Parameters/Master Data (BPM & Authorizations)      | Modified |
| MPR100           | Create/Maintain Project Definition and Contracting | Modified |
| MPR110           | Manage Project Contract                            | Modified |
| MPR210           | Rendering a Project Estimation and Bids            | Modified |
| MPR220           | Create Project Activity Planning                   | Modified |
| MPR230           | Create Project Budgeting                           | Modified |
| MPR240           | Manage Project Shipments                           | Modified |
| MPR260           | Cost Control/Report Project                        | Modified |
| MPR270           | Prepare Contract Invoicing                         | Modified |
| MPR280           | Project Requirement Planning                       | Modified |
| MPR310           | Project Closing                                    | Modified |
| MPR510           | Parameters / Master Data (Project Delivery)        | Modified |
| MPU001           | Control Supplier Performance                       | Modified |
| MPU003           | Process Purchase Orders/Schedules                  | Modified |
| MPU010           | Actualize Purchase Agreements                      | Modified |
| MPU020           | Process Request for Quotations                     | Modified |
| MPU030           | Process Purchase Requests                          | Modified |
| MPU510           | Parameters / Master Data (Purchase)                | Modified |
| MQM010           | Maintain Quality Gates                             | Modified |
| MQM510           | Parameters/Master Data (Quality Management)        | Modified |
| MRA059           | Close Financial Period                             | Modified |
| MRA200           | Declaration of Taxes                               | Modified |
| MSE002           | Maintain Calls                                     | Modified |
| MSE007           | Create / Plan Service Order                        | Modified |

| Business Process | Description  | Change   |
|------------------|--|----------|
| MSE008           | Manage Service Activities  | Modified |
| MSE010           | Perform Preventive Maintenance                                       | Modified |
| MSE510           | Parameters /Master Data (Service)                                    | Modified |
| MSL020           | Create / Maintain Sales Orders                                       | Modified |
| MSL030           | Create / Maintain Sales Schedules                                    | Modified |
| MSL040           | Manage Prospect/Customer Activities (CRM) & Sales/Service Quotations | Modified |
| MSL510           | Parameters/ Master Data (Sales)                                      | Modified |
| MSL511           | Parameters/ Master Data (Marketing Campaign)                         | Modified |
| MWH002           | Control Inventory  | Modified |
| MWH010           | Receive Material   | Modified |
| MWH020           | Pick and/or Ship Material  | Modified |
| MWH510           | Parameters / Master Data (Warehousing)                               | Modified |

## Detailed Processes

| Business Process | Description                                  | Change   |
|------------------|--|----------|
| DAM002           | Customer Control by Role                     | Expired  |
| DAM003           | Supplier Control by Role                     | Expired  |
| DAM010           | Promotions                                   | Expired  |
| DAP002           | Process purchase invoices (Master Data)      | Modified |
| DAR001           | Master Data Credit Control                   | Modified |
| DAR020           | Invoicing with Approval from External System | Modified |
| DAS011           | Asset Adjustments                            | Modified |
| DAS021           | Assets Depreciations                         | Modified |
| DCM003           | Master Data Cash Management                  | Modified |

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|        |  |          |
|--------|--|----------|
| DCO003 | Company Setup  | Modified |
| DCO004 | Country & Address Data                               | Modified |
| DCO005 | Password Management                                  | Expired  |
| DCO006 | Units  | Modified |
| DCO007 | Business Partners (Master Data)                      | Modified |
| DCO008 | Contract Schedule Data                               | Modified |
| DCO010 | Purchase/Sales Management Info                       | Modified |
| DCO050 | Purchase/Sales Statistics                            | Modified |
| DCO060 | Monitoring/exception handling EDI messages (in/out)  | Modified |
| DCO070 | Monitoring/exception handling transformation         | Modified |
| DCO080 | Prices & Discounts                                   | Modified |
| DCO083 | Item Data and Discounts by Buy-from Business Partner | Modified |
| DCO084 | Promotions   | Modified |
| DCO100 | Customer Control by Role                             | Modified |
| DCO101 | Supplier Control by Role                             | Modified |
| DCO510 | Parameters Common                                    | Modified |
| DCP010 | Compliance Review - Export                           | Modified |
| DCP020 | Compliance Review - Import                           | Modified |
| DCP050 | Compliance Review - Letter of Credit Sales           | Modified |
| DCP060 | Compliance Review - Letter of Credit Purchase        | Modified |
| DCP410 | Letter of Credit - Sales Export & Domestic           | Modified |
| DCP420 | Letter of Credit - Purchase Import & Domestic        | Modified |
| DCP520 | Global Trade Compliance Master Data - Import         | Modified |
| DEN001 | Determine and set Change over date                   | Expired  |
| DEN002 | Bill of Material Maintenance                         | Modified |

|        |   |          |
|--------|---|----------|
| DEN003 | Routing Sheet Maintenance                   | Modified |
| DEN006 | Budget Creation                             | Expired  |
| DEN007 | Product Configuration                       | Modified |
| DEN009 | Roll out new component                      | Expired  |
| DEN010 | Product Classification (Master Data)        | Modified |
| DFI000 | System Parameters (Financials)              | Modified |
| DFI001 | Archiving                                   | Modified |
| DFI002 | Finance (Organization)                      | Modified |
| DFI010 | Import Journals                             | Modified |
| DFI020 | Financial Budgeting Master Data             | Modified |
| DFI100 | Process Intercompany Trade Orders           | Modified |
| DFI520 | General Ledger Management                   | Modified |
| DFM001 | Freight (Organization)                      | Modified |
| DFM007 | Master Data (Freight)                       | Modified |
| DFM008 | Freight Costing/Invoicing Master Data       | Modified |
| DFM009 | Maintain Planning / Schedule Freight Orders | Modified |
| DFM010 | Freight Planning                            | Expired  |
| DFM510 | Parameters / Master Data (Freight)          | Modified |
| DIT010 | e-Messaging                                 | Modified |
| DIT030 | Data and Database Maintenance               | Modified |
| DIT050 | Company Data Management                     | Modified |
| DIT060 | Software Maintenance                        | Modified |
| DIT065 | Password Management                         | Modified |
| DIT070 | Hardware Maintenance                        | Modified |
| DIT071 | Devices                                     | Modified |

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|        |   |          |
|--------|---|----------|
| DIT090 | Table Sharing Modeling  | Modified |
| DIT110 | Load Business Object Documents                                | Modified |
| DIT130 | Monitor/Process XM Data                                       | Modified |
| DIT135 | Setup/Monitor Factory Track                                   | Modified |
| DIT141 | Publish Security Data to IFS                                  | Modified |
| DIT150 | Maintain Multi Language Setup                                 | Modified |
| DIT200 | Site Activation in Existing Company(s)                        | Modified |
| DIT210 | Convert Item Type 'Purchased' and 'Manufactured' to 'Product' | Modified |
| DIT220 | Convert to Standard Cost by EU                                | Modified |
| DIT230 | Convert 'Empty' Cluster to Cluster with a code                | Modified |
| DIT240 | Activate Sites  | Modified |
| DIT250 | Verify Site Assignment  | Modified |
| DIT510 | Parameters (ERP Application Configuration)                    | Modified |
| DME002 | People (Organization)   | Modified |
| DME010 | Hours Accounting & Processing                                 | Modified |
| DMN002 | Production Order Block Planning                               | Modified |
| DMN004 | Production (Organization)                                     | Modified |
| DMN006 | Production Completion   | Modified |
| DMN020 | Production Input / Output Control                             | Modified |
| DMP070 | View/Audit Data Authorization and Security                    | Expired  |
| DPA001 | Item(s) search by Aspects                                     | Modified |
| DPA003 | Product Data (Costing)  | Modified |
| DPA004 | Product Data (Sales)  | Modified |
| DPA005 | Product Data (Planning/Inventory/Ordering)                    | Modified |
| DPA006 | Product Data (Purchase)                                       | Modified |

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| DPA009 | Product Data (Unit Effectivity)                    | Modified |
| DPA010 | Changes  | Modified |
| DPA013 | Product Data (Service)                             | Modified |
| DPA014 | Item Group Defaults                                | Modified |
| DPA024 | Item Group Defaults by Site and Office             | Modified |
| DPA100 | Product Data by Role / Option                      | Modified |
| DPA200 | Product Data by Role / Option by Site or by Office | Modified |
| DPA210 | Product Costing Data by Enterprise Unit            | Modified |
| DPA220 | Local Product Data (Purchase)                      | Modified |
| DPA230 | Local Product Data (Planning/Inventory/Ordering)   | Modified |
| DPA240 | Local Product Data (Sales)                         | Modified |
| DPA250 | Local Product Data (Service)                       | Modified |
| DPA510 | Parameters (Product Data)                          | Modified |
| DPA511 | Standard Cost Master Data                          | Modified |
| DPA512 | Item Master Data General                           | Modified |
| DPA520 | Item Master Data Masks                             | Modified |
| DPB010 | Labor Budgets                                      | Modified |
| DPB101 | Set up Cost Accounting Budgets                     | Modified |
| DPB104 | Integrate Rates/Surcharges                         | Modified |
| DPB201 | Budget Control Maintenance                         | Modified |
| DPB510 | Master Data Budget Control                         | Modified |
| DPB511 | Master Data Cost Accounting                        | Modified |
| DPB520 | Parameters Controlling                             | Modified |
| DPL001 | SIC  | Modified |
| DPL003 | Goods Supply                                       | Expired  |

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| DPL002 | Calendar Management                                    | Modified |
| DPL004 | Assembly Line Planning                                 | Modified |
| DPL008 | Check Inventory  | Modified |
| DPL010 | Tools Planning   | Modified |
| DPL100 | Plan / Allocate Resources                              | Modified |
| DPL510 | Parameters (Planning)                                  | Modified |
| DPM001 | DEM (Organization)                                     | Modified |
| DPM030 | ERP Users Management                                   | Modified |
| DPM060 | Control Data Authorization and Security                | Modified |
| DPM061 | Permissions by Business Process                        | Modified |
| DPM070 | Create / Maintain Business Processes and Authorization | Modified |
| DPM071 | Report DEM Authorization                               | Modified |
| DPM080 | View/Audit Data Authorization and Security             | Modified |
| DPM530 | Maintain User Templates                                | Modified |
| DPO002 | General Ledger Management                              | Modified |
| DPO003 | VAT (Master Data)                                      | Modified |
| DPO006 | Integrations (Master Data)                             | Modified |
| DPO007 | Intrastat (Master Data)                                | Modified |
| DPO009 | Financial Periods (Master Data)                        | Modified |
| DPO010 | Financial Period Closure                               | Modified |
| DPO056 | Specification Purchase                                 | Modified |
| DPO057 | Specification Sales                                    | Modified |
| DPR001 | Project Time and Expenses                              | Modified |
| DPR003 | Project Agreements                                     | Modified |
| DPR004 | Project Structure                                      | Modified |

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|--------|------------------------------------|----------|
| DPR005 | Project Information                | Modified |
| DPR007 | Overhead                           | Modified |
| DPR008 | Forecasting                        | Modified |
| DPR009 | Physical Progress                  | Modified |
| DPR010 | Approving                          | Modified |
| DPR011 | Cost Plus Invoicing                | Modified |
| DPR012 | Progress Payment Invoicing         | Modified |
| DPR013 | Parameters (Project)               | Modified |
| DPR014 | Project (Organization)             | Modified |
| DPR015 | Revenue Recognition                | Modified |
| DPR016 | Project Cost Peg Transfers         | Modified |
| DPR201 | Activity Planning                  | Modified |
| DPR050 | Project Definition / Estimation    | Modified |
| DPR051 | Project Progress Control           | Modified |
| DPR052 | Project Evaluation / Closure       | Modified |
| DPR200 | Activity Engineering               | Modified |
| DPR230 | Bottom Up Budgeting                | Modified |
| DPR231 | Top Down Budgeting                 | Modified |
| DPR232 | Purchase Budgeting                 | Modified |
| DPU001 | Purchase Orders (Progress Control) | Modified |
| DPU004 | Purchase Contracts/Agreements      | Expired  |
| DPU005 | Purchase Contracts                 | Modified |
| DPU006 | Purchase (Organization)            | Modified |
| DPU030 | Purchase Requests                  | Expired  |
| DPU040 | Purchase Request for Quotations    | Expired  |



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| DPU080 | Purchase Contracts                                | Modified |
| DPU090 | Retro-billing                                     | Modified |
| DQM002 | Order Inspection                                  | Modified |
| DQM006 | Instrument Calibration                            | Modified |
| DQM010 | Receipts (Inspection)                             | Modified |
| DQM015 | Correct Action Plan and Root Cause Analysis       | Modified |
| DRA003 | Archive/Delete Project Related Data               | Modified |
| DRA008 | Delete Work Center/Machine/Tool Related Data      | Modified |
| DRA014 | Delete Marketing Data                             | Modified |
| DRA035 | Move Service Data to History                      | Modified |
| DRA036 | Archive Delete People Data                        | Modified |
| DRA037 | Archive/Delete Quality Data                       | Modified |
| DRA054 | Archive/Delete General Ledger Related Data        | Modified |
| DRA100 | Close Year  | Modified |
| DRA201 | VAT Declaration (Manual)                          | Modified |
| DRA225 | Tax Israel  | Expired  |
| DSE002 | Service Quotation                                 | Modified |
| DSE008 | Service (Organization)                            | Modified |
| DSE010 | Service Progress and Hours Registration           | Modified |
| DSE020 | Tool / Asset Serial refurbishment check           | Modified |
| DSE030 | Master Data Warranty                              | Modified |
| DSE040 | View/Maintain Labor Rates for Service on Location | Modified |
| DSE050 | View/Maintain Labor Rates for Depot Repair        | Modified |
| DSE510 | Parameters (Service)                              | Modified |
| DSL001 | Sales Contract Schedule Data                      | Expired  |

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|--------|------------------------------------|----------|
| DSL002 | Sales Orders (Progress Control)    | Modified |
| DSL003 | Commission Control and Calculation | Modified |
| DSL010 | Sales (Organization)               | Modified |
| DSL030 | Sales Quotations                   | Modified |
| DSL040 | Commission and Rebates Management  | Modified |
| DSL043 | Commission invoicing               | Modified |
| DSL070 | Marketing                          | Modified |
| DSL080 | Sales Contracts                    | Modified |
| DSL090 | Retrobilling                       | Modified |
| DSL510 | Parameters (Sales)                 | Modified |
| DWH001 | Cycle Counting                     | Modified |
| DWH002 | Cross Docking                      | Modified |
| DWH003 | Goods Shipment (Shipping)          | Modified |
| DWH009 | Inventory Adjustment               | Modified |
| DWH010 | Inventory Movements                | Modified |

## Static Conditions

| Static Condition | Description                      | Change   |
|------------------|----------------------------------|----------|
| AA0003           | Enterprise Structure using Sites | Modified |
| AA0006           | Standard Cost by Enterprise Unit | Modified |
| AA1100           | Usage of 360 Warehousing         | Modified |
| AA1101           | Usage of 360 Product Data        | Modified |
| AA1102           | Usage of 360 Financials          | Modified |
| AA1103           | Usage of 360 Project             | Modified |

| Static Condition | Description   | Change   |
|------------------|---|----------|
| AA1104           | Usage of 360 Employee                               | Modified |
| AA1105           | Usage of 360 CRM                                    | Modified |
| AA1106           | Usage of 360 Calls                                  | Modified |
| AA1107           | Usage of 360 Invoicing                              | Modified |
| AA1108           | Usage of 360 (Dashboard) Common                     | Expired  |
| AA1109           | Usage of 360 Industrial Project Contracts           | Modified |
| AA1110           | Usage of 360 Purchase                               | Modified |
| AA1111           | Usage of 360 Sales                                  | Modified |
| AA8190           | Integration with HR (Personnel Data)                | Modified |
| CO0065           | Global Trade Compliance - Letter of Credit Sales    | Modified |
| CO0066           | Global Trade Compliance - Letter of Credit Purchase | Modified |
| CO3005           | Terms and Conditions                                | Modified |
| CO3025           | Price Stages  | Modified |
| FI1100           | Financial Subcontracting (The Netherlands)          | Modified |
| FI5100           | Intrastat Reporting (EU)                            | Modified |
| FI5200           | Sales Listing (EU)                                  | Modified |
| FI5250           | Purchase Listing (EU)                               | Modified |
| FI5300           | SEPA (EU)   | Modified |
| FI5310           | 1099 Reporting (US)                                 | Modified |
| FI5330           | DAS2 Reporting                                      | Modified |
| FI5350           | Localization (Israel)                               | Modified |
| FI5360           | Monthly Billing Invoices (Japan)                    | Modified |
| FI5370           | Localization (Bulgaria)                             | Modified |
| FI5380           | VAT Book (Italy)                                    | Modified |

| Static Condition | Description   | Change   |
|------------------|---|----------|
| FI5390           | Customer and Supplier List (Italy)                  | Modified |
| FI5400           | Spesometro Tax Declaration (Italy)                  | Modified |
| FI5410           | Localization (Malaysia)                             | Modified |
| FI5420           | Localization (Russia)                               | Modified |
| FI5430           | Localization (Poland)                               | Modified |
| FI5440           | Localization (Czech Republic)                       | Modified |
| FI5450           | Localization (Slovakia)                             | Modified |
| FI5460           | Localization (Spain)                                | Modified |
| FI5470           | Localization (Brazil)                               | Modified |
| FI5480           | Localization (Mexico)                               | Modified |
| FM0202           | Freight Planning for Inbound Goods Flow             | Expired  |
| FM0210           | Freight Planning for Shipments                      | Expired  |
| IT0050           | Enhanced Authorization Management System (AMS)      | Modified |
| ITO060           | User Management via Infor Federation Services (IFS) | Modified |
| ITO300           | SQL Queries   | Modified |
| MN4000           | Resource Planning for Job Shop Orders               | Modified |
| MN4100           | Resource Planning for Manufacturing Projects        | Modified |
| PR1040           | Project Invoicing                                   | Modified |
| PR1087           | Constrained based Activity Planning                 | Modified |
| PR1125           | Infor LN Analytics Cost Ledger                      | Modified |
| PR1140           | Cost Plus Invoicing                                 | Modified |
| PR1150           | Progress Payment Invoicing                          | Modified |
| PU3100           | Landed Costs  | Modified |
| PU3300           | Retro-Billing                                       | Modified |

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| Static Condition | Description  | Change   |
|------------------|--|----------|
| PU3400           | Change Request for Purchase Orders                                   | Modified |
| PU4010           | Terms and Conditions (Purchase)                                      | Modified |
| PU7010           | Change Request for Purchase Contracts                                | Modified |
| QM0026           | Root Cause Analysis  | Modified |
| SE0010           | Turn Around Time   | Modified |
| SE0140           | Service Quote Requests   | Modified |
| SE2000           | Service on Customer Location or on Company-Owned Tools and/or Assets | Modified |
| SL4010           | Terms and Conditions (Sales)   | Modified |
| WH1000           | Warehouse Locations / Docks  | Modified |