# Angles for SAP Release Notes

*Version*: *2020SP1*

## Contents

# 1. End user - Highlights

Bill of Material (BOM) functionality enhancement: integration with engineering change management (validity check) and full explosion to all valid BOM header and BOM Items

First of all, the validity of the BOM headers is now correctly considered, by incorporating changes coming from Engineering Change management. As a result, you will get a Valid To field that shows until when a BOM has been active. The Valid To date on the BOM item now also always has a value.

Next to that, the BOM explosions now show the full explosion. When exploding a BOM, all following BOM headers and BOM items will be visible (so not only the first found BOM). As a result, users can place filters on alternative BOMs and validity dates, making the view on the BOMs more complete and consistent.

Because not all BOM types might be as important, it is now possible in the Modeling Workbench to decide which BOM categories you wish to activate. The possibilities are:

- Material BOM
- Equipment and functional location BOM
- Document BOM
- WBS element BOM
- Sales order BOM

The BOM categories selected will be visible in the BOM header and item objects, in line with the above-mentioned functionality.

Finally, some important changes are made to the sublists to enhance the detailed analysis on BOM:

New sublists:

- Object Document; Bill of Materials (BOM) Headers Multi Plant (MP)
- Object Equipment; Bill of Materials (BOM) Headers Multi Plant (MP)
- Object Functional Location; Bill of Materials (BOM) Headers Multi Plant (MP)
- Object Sales Document Item:
    - o Bill of Materials (BOM) Headers Multi Plant (MP)
    - o Bill of Materials (BOM) Items Multi Level (ML) Multi Plant (MP) Excluding Purchasing Items (PI)
    - o Bill of Materials (BOM) Items Multi Level (ML) Multi Plant (MP) Including Purchasing Items (PI)
    - o Bill of Materials (BOM) Items Multi Level (ML) Single Plant (SP) Excluding Purchasing Items (PI)

- o Bill of Materials (BOM) Items Multi Level (ML) Single Plant (SP) Including Purchasing Items (PI)
  - o Bill of Materials (BOM) Items Single Level (SL) Multi Plant (MP)

Moved sublists:

- Object BOM Header; BOM Materials and Equipment (M+E) Single Level (SL) moved from previous to lists.
- Objects Material on Plant Level, Document, Equipment, Functional Location, WBS Element; BOM Headers Single Level (SL) Single Plant (SP) moved from NEXT to lists.

Eliminated sublist:

- Object WBS Element; Bill of Materials (BOM) Headers can be replaced by BOM Headers Single Level (SL) Single Plant (SP).

## Multi-select in List Display

Introduced multi-select in the List Displays, enabling users to use CTRL+click to select multiple individual cells and SHIFT+click to select an entire range of cells.

## QM added as a new business process in Every Angle!

Every Angle introduces a new business process: Quality Management. This also includes new QM dedicated Activity and Object diagrams.

Quality Management is an integral part of the supply chain and logistics function in the SAP system. It relates to processes in MM, PP and PM. It is especially important in warehouse and manufacturing operations when quality inspection is executed. For example, quality checks at inbound and outbound warehouse processes and during or after manufacturing process steps. The core process of Quality Management is the inspection process and all of the steps belonging to it:
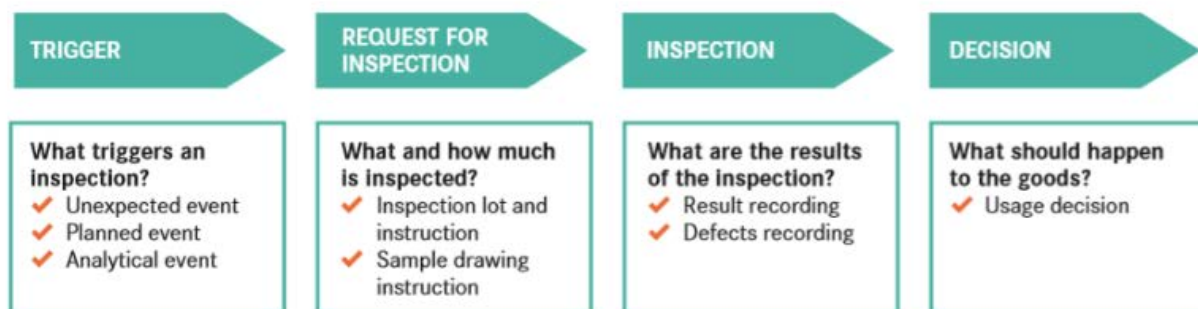


This process has been visualized in the Activity diagram. Five main activities have been identified:

1. Quality Inspection Origin (trigger of the process)
2. Quality Inspection and Control (execution of the process)
3. Quality Defects (results of the process)
4. Master data maintenance (maintenance/customizing of QM process)
5. Performance Management of the QM process (analysis on results of QM process)

Within all main activities, sub activities are defined. You can select the activity you want to analyze by clicking on the activity. This will open a Template with several Displays that you can use to answer your business questions.


P2P
S2D
O2C
F2R
PM
QM
HCM
GRC
IT
Quality Inspection Origin
Receiving
In-Production
Quality Inspection and Control
Open Inspection Lots
Open Characteristic
Blocked Stock Movements
Open Samples
Inspection Points
Quality Inspection Stock
Quality Defects
Defects Reporting
Causes
Tasks
Activities
Master Data, Data Reliability and Risks
Material on Inspection Type
Inspection Method
Master Inspection Characteristic
Inspection Plan Characteristic
Performance Measurement
Scrap Analysis
Lead Times
Results Recording
Inspection Lot Results
Inspection Characteristics
Sample Results
Inspection Service Level
Defects Analysis

In the data model for Quality Management all the important tables/objects from the QM process including their relationships (references) are available. The data model is very helpful when you want to create customized angles using pre-defined references and/or jumps.
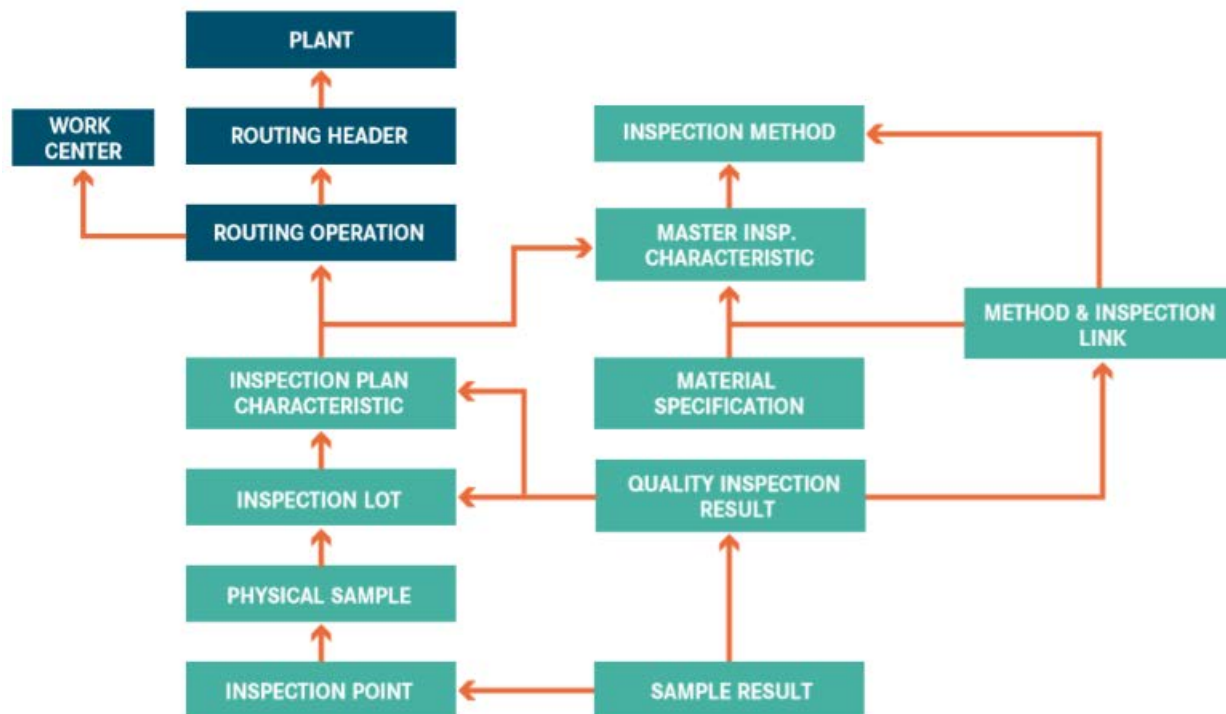
Of course, wherever relations exist to other parts of the Every Angle model, these relations are also provided. In this way the Quality Management business process integrates with the already existing processes within Every Angle. The QM business process completes the data model by not only providing the Quality Inspection Lot and its general result, but also by providing the detailed results of the inspection process on different levels, linked to the relevant master data objects.

More details on newly added objects, references etc., can be found in the chapter 'End User - Fixes and improvements'.

Not using Every Angle Quality Management yet to support your business?
Contact your Every Angle account manager for more information.

## O2C Rebate Agreement Enhancements

The Rebate Agreement functionality has been extended and the standard template now contains more (detailed) information on the status of the valid (meaning no final settlement has been done yet) Rebate Agreements. In the Basic List Display you can see all the agreements, their recipient and the most important values in the Rebate Agreement:

- The value in (closed) manual accruals: all values from the billing documents with billing type B4.
- The value in open settlements: all values (including open manual accruals) in open sales documents with types B1, B2, R3 or R4.

- The value in closed settlements: all values in closed billing documents with billing type B3.
- The verification level: the sum of all the rebate condition values from the billing documents belonging to the rebate recipient.
- The pay: the verification level minus the value of the different settlements that have been created.

More detailed Displays are provided for the first three, visualizing in a pivot which amount was processed in which period. Drilldowns may be done from the pivot to see the details of the actual documents.

As a whole this functionality provides insight for controllers and customers in the amounts outstanding, and what amounts can still be expected. This is particularly important at the end of the quarter/year, since most Rebate Agreements are processed after quarter or year end. This functionality will give you the ability to monitor the progress on a day-to-day basis and prevent you from unwanted surprises at period end.

The billing and sales document types, and the rebate conditions used, are from standard SAP. It is easy to switch these standard values to your own customization if needed. Please contact your account manager or functional application manager to get these applied.

### Drop-down list to Web Client and IT Management Console

Selecting your username in the Modeling Workbench opens a drop-down list with links to the Web Client and the IT Management Console.

### Remember and apply Dashboard filters when drilling down in a widget

Dashboards filters are now remembered and applied to the Display when users drill down in a widget. Dashboard filters will not be applied, if the filter is invalid for the Display.

### Warehouse Management (WM): planning fields added to object Warehouse (WM) Transfer Item

To give more insight in the performance of warehouse processes EA has added the following fields to the object Warehouse (WH) Transfer Order Header Item:

- Delivery Time Planned (in days and workdays)
- Delivery Time Realized (in days and workdays)

## WM: new references created from Warehouse Transfer Order Item

The following new references from the object Warehouse Transfer Order Item have been created:

- Customer, Customer Sales Area, Forwarding Agent, Sales Area, SD Header, SD Item, Ship-to Address, Ship-to-Party, 1st Shipment Item.

The new references will improve the analysis on picking orders (transfer order items) related to their connected sales orders and will help prioritizing picking activities in the warehouse.

To give you quick insight in the transfer orders (TO) related to your sales orders, two new displays have been introduced as well: Open Sales TOs - List and Open Sales TOs - per Customer.

## Material Master data/WM Management: which views are created, created by who and when

To create insight in the availability and maintenance of different material master data views EA has introduced new fields in the objects Material and Material on Plant Level:

- SAP Maintenance status [PSTAT] shows which views are created for a material.
- Created by: per view (MRP, Sales, Purchasing, Forecasting, QM, WM, Production and Work Scheduling) a Created by field is available to show the creator of the view.
- Created on: likewise, per view a Created on field is available to show on which date a view was created.
- Warehouses: shows the list of warehouses for which a material has been created. This gives you the possibility to do a cross plant check on missing warehouse views, for example for all materials which are stock items.

## Search through help text definition

The search functionality now also searches through the help text definition, and not only in the ID and name of the help text. This is shown with the amount of hits.

## Reference lines and bands

Reference lines and bands are now available in all relevant Chart types, except for Donuts, Pies, Radars and Gauges. The option can be found in the context menu that appears on left click on the field that is in the Data section of the Chart. Simply enter a value in the 'From' field to plot a reference line. When entering an additional value in the 'To' field, a band will be plotted.

## Privileges for the Modeling Workbench

A new privilege for the Modeling Workbench is available in the IT Management Console. With this privilege, admin users can control access and permissions to the Modeling Workbench. There are two levels of access: Configure Content and Edit Content.

If set to **Configure**, users with this role may configure:

- Activation Tree
- Tables & Fields
- Configuration Extensions
- Commit changes

If set to **Edit**, users with this role have Configure rights and may:

- Import and export content
- View Standard Content
- Edit Customer Content

## Modernized Web Client looks and interaction (phase 3)

We are releasing a major update in the Web Client, which is mainly focused on the Angle/Display page and the Dashboard page.

**Sidebars**
A key feature is the new sidebar that can be opened and closed on every page of the Web Client. In the Angle page, this new sidebar replace the previous Angle details, Display details and Dashboard popup and is now the central location for managing Angle/Display/Dashboard details and contains settings that have been reorganized in a more logical and intuitive manner.

**Save interaction**
There was a lot of confusion about Save Display and Save Angle in the previous version, because these were to separate things. With this release comes a new central Save button, which will Save everything you changed, whether in a Display or an Angle. This enforces the child-parent relation between a Display and the Angle and make it easier for users to understand.

**Displays**
Introducing the new tab bar that hosts all available Displays in an Angle in a similar way pages are presented in your internet browser. An ad hoc Display is always located on the left and the rest of the Displays are ordered alphabetically towards the right. A list view is still available for user to get full overview of all Displays.

## New Content Overview in the Modeling Workbench

New overviews of the content have been added to the Modeling Workbench:

- Modules
  Content is organized in modules. The entire module is now available in one editor, while maintaining the structure of the module in the navigation tree.
- Object Types
  Content is organized in object types. When selecting an object type, you will find the underlying modules, including their activation state. The modules contain the specific part of the content that affects this object type in read-only mode.
- Committed Model
  By selecting a model and a committed version, a tree is built showing the committed model that is being distributed to the other EA components during a refresh cycle. You can also compare between committed versions and filter on changes between them. Now you can really see what has been changed!
- Search
  The new structure of Modules, led to changes in the search functionality. Search results are organized in modules. Clicking 'go to' will navigate you to the specific line in the module editor.
- Improvement: Content in the correct location
  The Modeling Workbench will return a meaningful error when you place content related to Transformations, ModuleInfo or comment section of the ModuleInfo in the Modules editor. This will help you keep your content organized.

## Improvement: Help texts in Modeling Workbench

- You are now able to navigate from a TextID to the related help text by simply selecting the value, right-click and select 'go to help text'.
- By hovering over a glossary term, a tooltip appears containing the glossary id.
- A link in a help text linking to another help text is now shown in the selected system language instead of previously default English language.
- Changed the styling of the glossary pop-up screen to a more appealing look.
- Help text category icons are updated.
- Improved import: different help texts are now even better recognized, in order to end up in the correct grouping instead of 'Other'.
- Improved import: different line endings and unknown categories can now also be imported.
- Macros from the Classic era are now automatically removed from help texts to improve readability.
- Improved error messaging: warnings on required fields are now made clear for which language they belong to.

Sales Scheduling Agreements

In Every Angle the logic on Sales Scheduling Agreements has been significantly improved to support the complexity of the SAP scheduling agreement logic with all the different types of schedules that exist and the way the open quantities are being calculated. Every time a new schedule comes in, the situation changes, so with every new schedule a new calculation must take place.

**Definition**

A Scheduling Agreement (SA) determines which materials must be delivered on predetermined dates. It is an overview of the material quantities that are to be expected over a certain period. The delivery of the total quantity specified in the SA is spread over a certain period and recorded in a Delivery Schedule. A Delivery Schedule consists of various Schedule Lines, each indicating the individual quantities with their corresponding planned delivery dates. Delivery conditions can be applied to the complete SA or on Schedule Line level.

**Scheduling Agreement Releases**

SAs are released and issued for customers to vendors, instructing them to deliver the materials on the indicated dates. In SAP, you can work without or with release documentation.

In sales, there are three types of SA Releases:

- Forecast delivery schedule (FS)
  Provide the vendor with longer-term data regarding the quantities needed of a material and when delivery is required. In such schedules, the timing of delivery is usually expressed in terms of calendar months or weeks.

- Just-in-Time delivery schedule (JIT)
  Provide the vendor with data on required quantities and desired delivery dates/times covering the near future. In such schedules, the timing of delivery is usually expressed in terms of specific days or even times of the day.

- Planning delivery schedule (PDS)
  Internal delivery schedule that helps you plan requirements. It is created before the first forecast delivery schedule has been received from the customer.

When delivered quantity has been received by the customer, the customer will send a confirmation of the received quantity back to the vendor with the latest delivery schedule. In that way it is visible how much quantity is already received by the customer. Based on the remaining quantities, new schedule lines are created to get insight in what quantities are in transfer and what quantities are still open.

Every Angle's Supply Demand matching then considers whether these quantities they are relevant for the planning. The Supply Demand matching provides visibility into the scheduling agreement situation, by highlighting possible bottlenecks in the logistics chain.

**Most important changes introduced to scheduling agreements in this service pack:**

- Support of Planning Delivery Schedule (ABART=5) / Forecast Schedule / JIT Schedule.
- Include "correction delivery orders" with negative quantity.
- Correct calculation of "cumulative quantity delivered" for special cases, e.g. increase of schedule line quantity in case of negative correction deliveries in customer active fiscal year.
- Better visibility of cumulative quantities by new fields on SD item level.
- Significant improvement of coverage of all the SA scenarios.
- Improved error logging for analysis purposes.

As a result, Every Angle now shows improved closed SD schedule lines (quantities that are delivered in the past) and open SD schedule lines (split in MRP-relevant and non MRP-relevant schedule lines).
The MRP-relevant SD schedule lines are included in Every angle as requirements in the Supply/Demand matching. So, as a result of improvements in Schedule agreements, now also the results of the Supply/Demand matching have been improved significantly:

- Planning shortages & Mismatches
- Stock allocation & Excess Stock
- Output allocation/date first needed/reschedule advice of delivering orders (e.g. purchase orders, production order, purchase orders)

For customers using SAs, this new development will result in changes in the outcome of SAs related Angles and/or related Supply/Demand matching results. Therefore, it is advised to test this improved functionality thoroughly when upgrading.

## 2. End user - Usability improvements

### Errors summarized in the merge log

Some content errors will result in the inability to commit changes. In these cases, a merge log will pop-up. The end of the merge log will show a summary of the content errors, making it easy for users to fix their content, without scrolling through the whole log.

Improve readability pop-up messages in Modeling Workbench

By adding enumeration in the pop-up messages, the readability has been improved.

### Performance improvement Tables and Fields

We used to do a 'dummy' commit on loading the Tables and Fields page to generate the Default and User images based on the latest changes. To improve performance on page load, the 'dummy' commit is now skipped, and the Default and User images are taken from the latest commit.

Expansion navigation tree

When expanding the navigation tree, it stays expanded even when another module or mode is selected. Only by clicking the same icon again, the navigation tree will collapse.

Breadcrumb trail expanded to show more characters

Breadcrumbs show more characters. The space is maximized so that a long organisation name or a long module name is still visible.

Configurable maximum run time on Angle execution

In most query tools, queries can only run for a specific amount of time. In Every Angle, Angles could run forever (until the next refresh, when the server goes down). If many users create Angles which run, for instance, for 3 hours, the queue of the Model Server will be full, and users will have to wait for a free spot in the queue.

A new setting has been introduced in the IT Management Console which allows the administrator to set a maximum run time for an Angle. By default, this setting is Off (value 0 - zero), meaning no running queries will be canceled.

New setting:
MaxQueryExecutingTimeInMinutes

Adjusted default setting:
MaxMatrixNodes=20000 (was 100000)

## 3. End user - Fixes and improvements

Terminology changes

The following short and long names have been changed, for consistency purposes:

# English

| Old EN short name | New EN short name |
|---|---|
| Act. Mat. Leg. Contr. Level | Act. Mat. Leg. Contr. Lev. |
| Material Avail.date | Material Availability Date |

| | |
|---|---|
| Mdoc Item GI | MDoc Item GI |
| Act. Info Records | Active Info Records |
| Amount ƒ-LC | Amount in ƒ-LC |
| Forward. Agent | Forwarding Agent |
| PD Sched. Lines | PD Schedule Lines |
| Pers. Area | Personnel Area |
| Chart of Acc. | Chart of Accounts |
| Bank Account Nos. Customer | Bank Account Nos. Cust. |
| **Old EN long name** | **New EN long name** |
| Routing Operation[task list] | Routing Operation [task list] |
| Number of Active Mataterials on Legal Control Level | Number of Active Materials on Legal Control Level |
| Price Per Unit in Document Currency (DC) | Price Per Unit in Document Currency (DC) from PD |
| Material Document (Mdoc) Goods Receipt (GR) | Material Document (MDoc) Goods Receipt (GR) |
| Material Document (Mdoc) Item Goods Issue (GI) | Material Document (MDoc) Item Goods Issue (GI) |
| Material availability date | Material Availability Date |
| Baseline value | Baseline Value |

| Revenue last 12 months in translation currency (ƒ-TC) | Revenue Last 12 Months Paid in Translation Currency (ƒ-TC) |
|---|---|
| Sytem | System |

## Dutch

| Old NL short name | New NL short name |
|---|---|
| Actieve Art. Wet. Contr. Niveau | Act. Art. Wet. Contr. Niv. |
| Artikelbeschikbaarstel.dat. | Artikelbeschik. Datum |
| Act. Inforecords | Actieve Inforecords |
| Bedrag ƒ-LC | Bedrag in ƒ-LC |
| WBS-Element | WBS-element |
| Bankrek. Klant | Bankrekeningnummers Klant |
| Hidden property | Verborgen veld |
| Verborgen sublist | Verborgen sublijst |
| Personeelssubgebied ID | Personeelssubgebied |
| Sublist | Sublijst |
| Actietekst | Werkeljike Kosten |
| GO en FO Positietypes | GO- en FO-positietypes |

| | |
|---|---|
| GO en FO Teken Instellingen | GO- en FO-tekeninstellingen |
| Aanschaftype Planning | Verwervingssoort Planning |
| Omzet Afgel. 6 Maanden ƒ-LC | Omzet Afg. 6 Maanden ƒ-LC |
| Omzet Afgel. 60 Maanden ƒ-LC | Omzet Afg. 60 Maanden ƒ-LC |
| Leverende Vest. | Leverende Vestiging |
| Geboekt Na Periode Afsluiting | Geboekt na Periodeafsluiting |
| Adres [0006] | Adres |
| Aanschaftype Planning | Verwervingssoort Planning |
| BD Verefend Cred. | BD Vereffend Cred. |
| BD Verefend Deb. | BD Vereffend Deb. |
| BD Verefend Alg. | BD Vereffend Alg. |

**Note**: The Dutch short name for Actual costs was Actietekst, which is incorrect. It has now been corrected. Keep in mind that the short name 'Actietekst' still exists, as a translation for 'Activity text'.

| Old NL long name | New NL long name |
|---|---|
| Prijs per Eenheid in Eigen Valuta (LC) | Prijs per Eenheid in Eigen Valuta (LC) uit Inkoopdocument (InkD) |
| Uitgaven Laatste 12 Maanden | Uitgaven Laatste 12 Maanden aan Leverancier |
| Basislijnwaarden | Normwaarde |

| | |
|---|---|
| Terugvalverrekeningsmodus | Verborgen veld |
| Personeelssubgebied ID | Personeelssubgebied |
| Sublist | Sublijst |
| Omzet Afgelopen 12 Maanden in Omrekenvaluta (ƒ-TC) | Omzet Afgelopen 12 Maanden Betaald in Omrekenvaluta (ƒ-TC) |
| Gemiste Korting f-DC (documentvaluta) | Gemiste Korting ƒ-DC (documentvaluta) |
| Werkelijk Bedrag Betalingskorting f-DC (documentvaluta) | Werkelijk Bedrag Betalingskorting ƒ-DC (documentvaluta) |
| Werkelijk Bedrag Betalingskorting f-LC (eigen valuta) | Werkelijk Bedrag Betalingskorting ƒ-LC (eigen valuta) |
| Geboekt Na Periode Afsluiting | Geboekt na Periodeafsluiting |
| Op tijds | Op Tijd |
| Boekhouddocument posities open - crediteuren | Boekhouddocument Posities Open - Crediteuren |
| Operatie | Activiteit |
| Batch | Batch [charge] |
| Korting dagen | Kortingsdagen (onmiddellijke betaling) |
| Arbeidsovereenkomst [0016] | Arbeidsovereenkomsten [0016] |
| Levertijd marge service level | Levertijd Marge Service Level |
| Verschil gewerkte vs te werken uren uren | Verschil Gewerkte vs te Werken Uren |

Microsoft Partner · ORACLE | Partner · SAP Partner · Powered by SAP HANA · SAP Certified · VIEWPOINT STRATEGIC PARTNER · mri Partner Connect · ellucian ALLIANCE PARTNER

insightsoftware.com

| | |
|---|---|
| Goederenontvangst en Factuurontvangst Teken Instellingen | Goederenontvangst en Factuurontvangst Tekeninstellingen |
| Hoevh. prod.-afroep (JIT) | Hoeveelheid productie-afroep (JIT) |
| Hoeveelheidseenheid operatie | Operatie-eenheid |
| Formatieplaaten (FPI) [OM/dag] | Formatieplaatsen (FPI) [OM/dag] |
| Syteem | Systeem |
| Tijdsaldo per Dag Geldig Contract Indicator | Tijdsaldo per Dag |

**Note**: The Dutch long name for Activity was Operatie, which is incorrect. It has now been corrected. Keep in mind that the long name 'Operatie' still exists, as a translation for 'Operation'.

## German

| Old DE short name | New DE short name |
|---|---|
| Mat.Bereitst.Datum | Materialbereitstellungsdatum |
| Kostenstellen | Az. Kostenstellen |
| Akt. Infosätze | Az. Aktiver Infosätze |
| Betrag ƒ-HW | Betrag in ƒ-HW |
| Menge offen | Menge Offen |
| Frachtkosten Positionen | Transportkosten Positionen |
| Trans.kost. Positionen | Transportkosten Positionen |

| | |
|---|---|
| EB-Einteilungen | Az. EB Einteilungen |
| Bankkto.nr. Kunde | Bankkontonummern Kunde |
| Hidden property | Verborgene Eigenschaft |
| Komponenten Nicht Auf Lager | Komponenten Nicht auf Lager |
| Komponenten Auf Lager | Komponenten auf Lager |
| Wartung Position | Wartungspositionen |
| Vorgang Bestätigung | Vorgang Bestätigungen |
| Vorgang* | Vorgänge |
| Persönl. Daten | Persönliche Daten |
| Menge nicht Zugewiesen in %UnallocatedQuantityHorizon% Tage Bedarf | Menge Nicht Zugewiesen in %UnallocatedQuantityHorizon% Tage Bedarf |
| Datum der Wiederbeschaffungsdurchlaufzeit (DLZ) ohne Wareneingangsbearbeitungszeit | Dt. Wiedbeschaff. DLZ o. WE-Verarb.z. |
| Erlös letzte 6 M. ƒ-HW | Einkünfte letz. 6 Monate ƒ-HW |
| Erlös letzte 60 M. ƒ-HW | Einkünfte letz. 60 Monate ƒ-HW |
| Anlage Auf Bew.ber. | Anlage Absch.eb |
| Ausgb. Dispo.untersabschnitt | Ausgb. Dispo.unterabschnitt |
| Nettobezahlkonditionen | Nettozahlungsfrist |

| | |
|---|---|
| Profit Center | Profit-Center |
| Datum der Wiederbeschaffungsdurchlaufzeit (DLZ) ohne Wareneingangsbearbeitungszeit | Dt. Wiedbeschaff. DLZ o. WE-Verarb.z. |

**Note**: *The German short name for Operations was Vorgang, which is incorrect. It has now been corrected. Keep in mind that the short name 'Vorgang' still exists, as a translation for 'Operation'.

| Old DE long name | New DE long name |
|---|---|
| Arbeitsplan Vorgang[Aufgabenliste] | Arbeitsplan Vorgang [Aufgabenliste] |
| Preis pro Einheit in Hauswährung (HW) | Preis pro Einheit in Hauswährung (HW) aus Einkaufsbeleg |
| Menge offen | Menge Offen |
| Frachtkosten Positionen | Transportkosten Positionen |
| Anzahl von Einkaufsbelegeinteilungen (EB) | Anzahl von Einkaufsbeleg (EB) Einteilungen |
| Einkünfte Letzte 12 Monate von Kunde in Umrechnungswährung (ƒ-UW) | Einkünfte Letzte 12 Monate Bezahlt von Kunde in Umrechnungswährung (ƒ-UW) |
| Buchhaltungsbeleg Position | Buchhaltungsbeleg (BB) Position |
| Debitorenkonten geschlossen | Debitorenkonten Geschlossen |
| Debitorenkonten offen | Debitorenkonten Offen |
| Kreditorenkonten geschlossen | Kreditorenkonten Geschlossen |
| Kreditorenkonten offen | Kreditorenkonten Offen |
| Anlage Auf Bew.ber. | Anlage Absch.eb |

| | |
|---|---|
| Komponenten nicht auf Lager | Komponenten Nicht auf Lager |
| Tage Bis Nettofälligkeit | Tage bis Nettofälligkeit |
| Historischer Bedarfüber %UnallocatedQuantityHorizon% Tage | Historischer Bedarf über %UnallocatedQuantityHorizon% Tage |
| Historischer Bedarfin %UnallocatedQuantityHorizon% Tage + Durchlaufzeit | Historischer Bedarf in %UnallocatedQuantityHorizon% Tage + Durchlaufzeit |
| Materialwert nicht Zugewiesenin %UnallocatedQuantityHorizon% Tage Bedarf | Materialwert nicht Zugewiesen in %UnallocatedQuantityHorizon% Tage Bedarf |
| Vorgang | Vorgänge |
| Menge nicht Zugewiesen | Menge Nicht Zugewiesen |
| Menge nicht Zugewiesenin %UnallocatedQuantityHorizon% Tage Bedarf | Menge Nicht Zugewiesen in %UnallocatedQuantityHorizon% Tage Bedarf |
| Erlös letzte 6 Monate ƒ-HW | Einkünfte letzte 6 Monate ƒ-HW |
| Erlös letzte 60 Monate ƒ-HW | Einkünfte letzte 60 Monate ƒ-HW |
| Transport Position | Transportposition |
| Bestandswert (BW) nicht Zugewiesenin %UnallocatedQuantityHorizon% Tage Bedarf | Bestandswert (BW) nicht Zugewiesen in %UnallocatedQuantityHorizon% Tage Bedarf |
| Buchungskreis lieferndes Werk | Buchungskreis Lieferndes Werk |
| Anzahl Möglicher Doppelter Kundenadressen, Aktiviert | Anzahl Möglicher Doppelter Kundenbankkonten, Aktiviert |

| | |
|---|---|
| Werke mit Fehlbestände für dieses Material | Werke mit Bestandsdefiziten für dieses Material |
| Profit Center | Profit-Center |
| Profit Center (PC) Bilanz-Einzelheiten | Profit-Center (PC) Bilanz-Einzelheiten |
| Profit Center Knoten Eins Höher | Profit-Center-Knoten 1 Höher |
| Einkünfte Letzte 12 Monate von Kunde | Einkünfte Letzte 12 Monate |

**Note**: The German long name for Operations was Vorgang, which is incorrect. It has now been corrected. Keep in mind that the long name 'Vorgang' still exists, as a translation for 'Operation'.

## French

| Old FR short name | New FR short name |
|---|---|
| Date Mise à Disp.art | Date Mise Dispo Art |
| Élts du Contrat | Élém. Contrat |
| N° Centres Coût | Nb de Centres de Coûts |
| Nb Fiches Infos-Ach. Act. | N° Fiches Infos-ach Actives |
| Montant ƒ-DL | Montant en ƒ-DL |
| Cpte Gl Gén Soc | CG Société |
| Élément OTP | Élément d'OTP |
| Quantité en Suspens | Quantité en Cours |

| | |
|---|---|
| Code Société | Société |
| Nombre Éch DA | Nb Échéances Doc. d'Achat |
| Numéro D'ordre | Numéro d'Ordre |
| N° de Compte Bancaire Client | Numéros Cpte Bancaire Client |
| Pers. Domaine | Dom Personnel |
| División Pers. | Div. Personal |
| Regroupement des éléments d'OTP ans Every Angle | Regroupement des Éléments d'OTP dans Every Angle |
| Ss-segment Planif Sortant | Ss-segment Planif Sortante |
| Division Cédantete | Division Cédante |
| Contrôle des Taches | Contrôle des Tâches |
| Type Obj EA Planif | Type Obj Planif Pert |
| Centres prof (Profit Center) | Centre Prof |
| Doc Art Poste Entrée March (English: MDoc Item GR) | Doc Art En-tête Entrée March |
| US Abréviation | US Abbréviation |
| Centres Prof (English: Profit Center) | Centre de Profit |
| Tous Les Clients | Tous les Clients |
| Tous Les Fournisseurs | Tous les Fournisseurs |

| | |
|---|---|
| Cdes Ach DépeNoeud | Cdes Ach Dép Div Pren |
| Entrée Ordre planifié THLT | Entrée Ordre Planifié THLT |
| Doc Art Pste | Doc Art Poste |
| Nb Pts d'Expédition inclus | Nombre de Points d'Expédition Inclus à cette Commande |
| ONC Info: Supply-Demand Matching | ONC: M. en corresp Appr/Dde |
| Descr Plan Roul périodique | Descr Plan Roul Périodique |
| Élément d'OTP | Élément d'OTP |

In the table below, the English translation of the long name is included for clarity. This is not part of the long name itself.

| Old FR long name | New FR long name |
|---|---|
| Gamme Opération[gamme] | Gamme Opération [gamme] |
| Prix Unitaire en Devise Locale | Prix Unitaire en Devise Locale à Partir du Document D'achat |
| Élts du Contrat [0016] | Élément de Contrat [0016] |
| Montant Dans la Devise Locale (ƒ-DL) | Montant en Devise Locale (ƒ-DL) |
| Nombre de Fiches Infos-Achats Actives | Nombre de Fiches Infos-achats Actives |
| Élément D'OTP | Élément d'OTP |
| Quantité en Suspens | Quantité en Cours |

| | |
|---|---|
| Code Société | Société |
| Table Conditions | Table de Conditions |
| Nombre D'échéances de Documents D'achat | Nombre d'Échéances de Document d'Achat (DA) |
| Nombre de Centres de Coût | Nombre de Centres de Coûts |
| Nombre de Jours Jusqu'au Echéance Nette | Nombre de Jours Jusqu'a Echéance Nette |
| Numéro D'ordre | Numéro d'Ordre |
| Fiche de condition | Enregistrement Condition |
| Produit des 12 derniers Mois en Devise de Conversion (ƒ-DC) | Produit des 12 derniers Mois Réglé par le Client en Devise de Conversion (ƒ-DC) |
| Comptes fournisseurs en cours (English: Accounts Payable Closed) | Comptes Fournisseurs Clôturés |
| Comptes fournisseurs en cours (English: Accounts Payable Open) | Comptes Fournisseurs en Cours |
| Tous les Fournisseurs | Tous Les Fournisseurs |
| Fiabilité des Livraisons%DeliveryReliabilityXPercentClosed%% clôturé | Fiabilité des Livraisons %DeliveryReliabilityXPercentClosed%% clôturé |
| Demande Prévueles prochains %UnallocatedQuantityHorizon% jours | Demande Prévue les prochains %UnallocatedQuantityHorizon% jours |

| | |
|---|---|
| Compte généraux | Comptes Généraux |
| Regroupement des éléments d'OTP ans Every Angle | Regroupement des Éléments d'OTP dans Every Angle |
| Historique des Demandesen %UnallocatedQuantityHorizon% jours | Historique des Demandes en %UnallocatedQuantityHorizon% jours |
| Historique des Demandesdans %UnallocatedQuantityHorizon% jours + délai | Historique des Demandes dans %UnallocatedQuantityHorizon% jours + délai |
| Grpes Appels sur Plan D'entretien | Groupes Appels sur Plan D'entretien |
| Valeur Article Non Affectéen %UnallocatedQuantityHorizon% jours de demande | Valeur Article Non Affecté en %UnallocatedQuantityHorizon% jours de demande |
| Type D'objet EA de Planification (English: MRP Relevant) | Type D'objet de Planification Pertinent |
| Tipo de Objeto de Planificación de Necesidades de EA | Type D'objet EA de Planification |
| Demande D'ordre en Cours%UnallocatedQuantityHorizon% jours | Demande D'ordre en Cours %UnallocatedQuantityHorizon% jours |
| Demande D'ordre en Cours%UnallocatedQuantityHorizon% jours + délai | Demande D'ordre en Cours %UnallocatedQuantityHorizon% jours + délai |
| Centres de Profit (English: Profit Center) | Centre de Profit |
| Quantité Non Affectéeen %UnallocatedQuantityHorizon% jours de demande | Quantité Non Affectée en %UnallocatedQuantityHorizon% jours de demande |

| | |
|---|---|
| Quantité de Stock Non Affectéeen %UnallocatedQuantityHorizon% jours de demande | Quantité de Stock Non Affectée en %UnallocatedQuantityHorizon% jours de demande |
| Valeur de Stock Non Affectéeen %UnallocatedQuantityHorizon% jours de demande | Valeur de Stock Non Affectée en %UnallocatedQuantityHorizon% jours de demande |
| Document Article Poste Entrée Marchandises (English: Material Document (MDoc) Item Goods Receipt (GR)) | Document Article En-tête Entrée Marchandise |
| Société division cédante | Société Division Cédante |
| Fiabilité des Livraisons%DeliveryReliabilityXPercentClosed%% clôturé | Fiabilité des Livraisons %DeliveryReliabilityXPercentClosed%% clôturé |
| Niveau de service pour la marge de livraison | Niveau de Service pour la Marge de Livraison |
| Contrôle des Taches [0019] | Contrôle des Tâches [0019] |
| Unité Structurelle Abréviation | Unité Structurelle Abbréviation |
| Centres de Profit (English: Profit Center) | Centre de Profit |
| Type d'Activité Source Coût objet | Type d'Activité Source Coût Objet |
| Agit Sur l'Indic Rémun. | Agit sur l'Indic Rémun. |
| Différence Travaillée Ou Heures Travaillées | Différence Travaillé Ou Heures Travaillées |
| Première Modification des Données | Première Modification des Données Principales Client |

| | |
|---|---|
| Entrant Production et Achat Jusqu'à Date Seuil Délai de Réapprovisionnement (THLT) | Flux Entrant Production et Achat Jusqu'à Date Seuil Délai de Réapprovisionnement (THLT) |
| Compte Mois Premier jour | Compte Mois Premier Jour |
| Descr Plan Roul périodique | Descr Plan Roul Périodique |

Two additional sets of French long names have been corrected:

- The following items were all translated as "Désignation Article". There is now a separate translation for each language:

| English long name | French long name |
|---|---|
| Material Description Dutch | Désignation Article en Néerlandais |
| Material Description English | Désignation Article en Anglais |
| Material Description French | Désignation Article en Français |
| Material Description German | Désignation Article en Allemand |
| Material Description Spanish | Désignation Article en Espagnol |

- The following items were all translated as "Quantité". There is now a separate translation for each quantity period:

| English long name | French long name |
|---|---|
| Quantity Period 1 | Quantité Période 1 |
| Quantity Period 2 | Quantité Période 2 |
| ... | ... |

| Quantity Period 16 | Quantité Période 16 |
|---|---|

# Spanish

| Old ES short name | New ES short name |
|---|---|
| Fecha Puesta Dispos. Mat. | Fecha Puesta Disp. Material |
| N.º Centros Costes | Número de Centros de Coste |
| N.º Registros Info Act. | Nº Registros Info Activos |
| Importe ƒ-ML | Importe en ƒ-ML |
| Elmento de Coste | Clase de Coste |
| Neces. Pronóst. | Transportista |
| N.º Repartos DC | Número Repartos DC |
| Pos. Gastos Transporte | Gastos Transporte Posiciones |
| Número Pedido | Número de Pedido |
| Núm. Cuenta Bancaria Deudor | Números Cta. Bancaria Deudor |
| Elemento Contrato | Elemento de Contrato |
| Ud .medida Base | Ud. Medida Base |
| DP Pos. | DC Pos. |
| Todos Los Deudores | Todos los Deudores |

| | |
|---|---|
| Importe en MD | Importe en ƒ-MD |
| Grupo Personal | Grupo de Personal |
| Inv. Físico Doc. Posiciónes | Inv. Físico Doc. Posiciones |
| Estructura. Empr. Pers. | Estructura Empr. Pers. |
| **Old ES long name** | **New ES long name** |
| Hoja de Ruta Operación[lista de tareas] | Hoja de Ruta Operación [lista de tareas] |
| Precio Por Unidad en Moneda Local (ML) | Precio Por Unidad en Moneda Local (ML) desde Documento de Compras (DC) |
| Número de centros de coste | Número de Centros de Coste |
| Importe en Moneda Local (ML) | Importe en Moneda Local (ƒ-ML) |
| Elemento Coste | Clase de Coste |
| Necesidades Pronóstico | Transportista |
| Número de Repartos de Documentos de Compras | Número de Repartos de Documentos de Compras (DC) |
| Posiciones de Gastos de Transporte | Gastos de Transporte Posiciones |
| Número de Centros de Costes | Número de Centros de Coste |
| Valor de línea base | Valor de Línea Base |

| | |
|---|---|
| Ingresos Últimos 12 Meses en Moneda por Conversión | Ingresos Últimos 12 Meses Pagados en Moneda por Conversión |
| Importe en Moneda del Documento | Importe en Moneda Local |
| Demanda Previstaen los próximos %UnallocatedQuantityHorizon% días | Demanda Prevista en los próximos %UnallocatedQuantityHorizon% días |
| Historial de Demandadurante %UnallocatedQuantityHorizon% días | Historial de Demanda durante %UnallocatedQuantityHorizon% días |
| Historial de Demandaen %UnallocatedQuantityHorizon% días + plazo de comercialización | Historial de Demanda en %UnallocatedQuantityHorizon% días + plazo de comercialización |
| Valor de Material No Asignadoen %UnallocatedQuantityHorizon% días de demanda | Valor de Material No Asignado en %UnallocatedQuantityHorizon% días de demanda |
| Cantidad No Asignadaen %UnallocatedQuantityHorizon% días de demanda | Cantidad No Asignada en %UnallocatedQuantityHorizon% días de demanda |
| Valor de Stock No Asignadoen %UnallocatedQuantityHorizon% días de demanda | Valor de Stock No Asignado en %UnallocatedQuantityHorizon% días de demanda |
| Contabilidad de acreedores cerrada | Contabilidad de Acreedores Cerrada |
| Contabilidad de acreedores abierta | Contabilidad de Acreedores Abierta |

| Texto de acción | Texto de Actividad |
|---|---|
| Todos Los Deudores | Todos los Deudores |
| Documento de Modification de Material | Documento de Modificación de Material |
| Centro suministrador de sociedad | Centro Suministrador de Sociedad |
| Elementos contrato | Elementos de Contrato [0016] |
| Plazo de entrega margen nivel de servicio | Plazo de Entrega Margen Nivel de Servicio |
| Grupo Personal | Grupo de Personal |
| Empleado Área / Área de Personal | Área de Personal |
| UMp p.entrega | UM para Entrega |
| Número de Cabeceras de Regulación por Cuotas Cabeceras Activas | Número de Cabeceras de Regulación por Cuotas Activas |
| Nombre de objecto | Nombre de Objeto |
| Unidad medida op. | Unidad de Operación |
| Inventario Físico Documento Posiciónes | Inventario Físico Documento Posiciones |
| Geplanter Starttermin | Fecha de Inicio Planificada |
| Plazo entrega prev. | Plazo Entrega Planificada |

| Ctd.trabajo repaso | Cantidad de Trabajo de Repaso |
|---|---|
| Estructura. Empresarial Personal | Estructura Empresarial Personal |
| Cumplimiento de Plazos de Entrega%DeliveryReliabilityXPercentClosed% % cerrado | Cumplimiento de Plazos de Entrega %DeliveryReliabilityXPercentClosed% % cerrado |

**Note**: The Spanish long name for 'Amount in Local Currency (LC)' was 'Importe en Moneda del Documento', which is incorrect. It has now been corrected. Keep in mind that the long name 'Importe en Moneda del Documento' still exists, as a translation for 'Amount in Document Currency (DC)'.

### QM; introduction of Sample Drawing Procedure

The Sample Drawing Procedure is a master data object in which you plan the drawing of samples. The drawing procedure specifies:

- which categories of physical samples must be drawn,
- how many samples must be drawn,
- the size of the samples,
- whether the drawing of samples must be confirmed.

Specifically on the header level, the following information is available:

- Lock indicator to prevent the sample drawing procedure from being used.
- Usage indicator that shows if the procedure is currently being used in an Inspection Plan.

Two new objects have been introduced: Sample Procedure Header [QPRVK] and Sample Procedure Item [QPRVP], including all relevant references. This makes the master data maintenance process more efficient and offers the possibility to jump from Inspection or Sample Results to the related Sample Procedure master data.

### QM: introduction of new objects Quality Info Record Procurement & Sales

To support the quality inspection process in SAP, specific Quality Info Records can be specified both for vendors (transaction QI01) and customers (QV51).

The Quality Info Records for vendors are used to manage the supplier relation in an organization. For example, when there is continuous defect in the material supplied by a vendor, you can use Quality Info Records to block a vendor. When you create a purchase order, the SAP system performs a check to find if a Quality Info Record is required and is available for a combination of material and vendor. Quality Info Record has to be maintained when you use the source inspection functionality. This means a material has to undergo an inspection prior to reaching the plant for Goods Receipt.

The Quality Info Records for customers define the inspection requirements for a specific customer/material combination (per sales organization). You can use the customer info record to override the default customer specifications.

To support the maintenance of this master data, Every Angle has introduced two new objects:

1. Quality Info Record Purchasing
2. Quality Info Record Sales

## QM: Material Documents linked to Quality Inspection lot

To enable analysis on the Material Document flow starting from the Quality Inspection Lot and vice versa, Every Angle has created a link between the objects Material Document (MDoc) and Quality Inspection (QI) Lot.

## QM: Batch traceability based on Quality Inspection Results using new references

The following new references have been added to the QM Model:

- From object Physical Sample to object Batch
- From object Inspection Result to object Batch
- From object Sample Result to Object Batch
- From object QI Lot - Quality Inspection to objects Sold-to Party, Delivery Header and Delivery Item

When using these references, it becomes easy to create a trace from a Sample Result, to the related Batch, to the related Deliveries and Sold-to Parties.

## QM: addition of available Inspection Types on Material/Plant level

In the object Material and Material Plant we have added a field called Inspection Types Available. This field shows all the available Inspection Types per Material and the different Plants they are applicable to. Because Inspection Types can be maintained at Material level, this field will be helpful for maintaining your Inspection Types across Material and Plants.

### Templates with an error are hidding in the webclient

From now on templates with an error are hidding from the WebClient. As an End User you cannot resolve the error.

### QM: new references added to underlying Notification objects

All references available from the object Notification have now also been made available from the underlying objects Notification Item, Notification Cause, Notification Activity and Notification Task.

### Incorrect open PD Schedule Lines in case of confirmations of the type 'Return Delivery'

In Every Angle a confirmation with the type 'Return Delivery' [EKES-ESTKZ='4'] was incorrectly processed as a positive quantity, leading to incorrect open PD Schedule Lines. This has now been corrected in a negative quantity, correctly consuming all previous confirmations.

### EA4HR: Manager Structural Authorization made Optional

HCM has the functionality of filtering the viewable data for employees in a manager position on the basis of their span of control. This option is configured by creating a role with the appropriate filter (Employee number or Organizational Unit) and assigning this role to the EA HCM user concerned. This role filtering can have impact on the performance of Angles in the HCM process.
For clients who do not wish to authorize employees in management line functions for HCM, the option is created to switch off this functionality, thus considerably improving the performance of all HCM Angles.

This change will make it possible to view HCM data without role filter, using only the general access to the HCM module for authorization. When implementing the HCM module the option of structural manager authorization can be activated or deactivated in the Workbench. When deactivated the property filter in user role does not need to be created. Functionally, every HCM user has access to all the data. When activated, structural manager authorization is switched on, so that the HCM user needs to be assigned with an appropriate role.

N.B. the server has to be restarted after activating or deactivating the Manager Structural Authorization module.

### Tables & Fields cannot open when Transformations contains syntax error

Syntax errors in Transformations will lead to an inaccessible Tables & Fields. Error messaging has been improved, containing the exact error when navigating to Tables & Fields.

### F2R BSEG based accounting: Missing records when jumping from G/L account on CCL sublist to AD Items

When jumping from the object G/L account on CCL sublist to AD Items not all relevant records where shown. This was caused by a missing link to the objects AccDocItemTax, AccDocItemMaterial and AccDocItemCustomer. This has now been corrected for BSEG based accounting.

*Note:* this bug is not related to jumping from AD Header down towards AD Items. This result has always been correct.

### Saving module with name containing trailing space

A module name containing a trailing space led to an unexpected error. This is now fixed by allowing a module name to end with a space.

### F2R Index based accounting: Missing records when jumping from G/L account on CCL sublist to AD Items

When jumping from the object G/L account on CCL sublist to AD Items not all relevant records where shown. This was caused by a missing link to the objects AccDocItemTax, AccDocItemMaterial and AccDocItemCustomer. This has now been corrected for Index based accounting.

*Note*: this bug is not related to jumping from AD Header down towards AD Items. This result has always been correct.

### Object type extension always refer to SC object type

Object types cannot be deleted if object type extensions still exist that refer to that object type. In case an object type is introduced in both Standard Content and Customer Content, now in all cases the object type extensions will refer to the object type in Standard Content. This allows you to delete the object type in Customer Content, without deleting all extensions first.

### Module with special character in name

A module with special character in the name could not be opened. Special characters in the module name, like &, can now also be used without causing an error.

### Fixed web help navigation

The left bar in the web help from the Web Client, with the table of contents, did not expand if you clicked on a chapter or paragraph. This is now fixed and the usability of the help is greatly improved.

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SD 1903 8362 - Object ReservationLine misses reference to StandardVendor

The reference from the object ReservationLine to StandardVendor did no longer exist. This has been corrected.

SD-1710 2196 - Output Allocation: scenario with planning delivery schedule incorrect (VBEP with ABART=5 (planning delivery schedule)

If planning delivery schedules (VBEP, ABART=5) were applicable, the output allocation was incorrect because the related sales order requirements were not taken into account. This has now been corrected. Planning delivery schedules are now supported during output allocation.

SD 1805 17010 - Incorrect stock consumption when Safety stock demand lead time = 999 days

When in the server setting (IT MC > Model > Content parameter > Enterprise configuration) the 'Safety stock demand lead time' was set to 999 days, the safety stock requirements consumed stock before other demand, like sales orders. This was incorrect and has now been fixed.

When the 'Safety stock demand lead time' is 999, and there is other demand than safety stock, the safety stock now consumes stock after all other requirements, as mentioned in the help text.

SD 1808 14818 - Count no. of rows in pivots with multiple columns confusing

The count for the data rows in pivots has been removed because it caused a lot of confusion for users.

SD 1712 4339 - Duplicate Received Value - PD item

The objects PD Item and PD Header had two duplicate fields with the name "Received Value", with a different outcome. This was incorrect. The duplicate has been removed.
This change can create an Angle warning if in the past the incorrect Received Value field was selected. By selecting the correct Received Value field this can be solved.

SD 1901 1897 - Planned Orders and Reservation Items: field Created On derived from [PLAF-PALTR] explosion date

The 'Created on' field for Planned Orders and Reservation Items was derived from the SAP Explosion Date [PLAF-PALTR] field. This was not correct and is now derived from the SAP field Time Stamp [PLAF-PSTMP].

### SD 1904 2168 - Standard module GRC PTP-FIN + GRC FTR-FIN: wrong filter definition table BSEC

When using the GRC module a download filter on fiscal year (GJAHR) in the default image was incorrect, causing it to be ineffective. This filter has now been removed from the default image. Download filters on fiscal year can now be created in the user image.

### SD 1904 7379 - Valuation Type in object Stock not correct for Batches

In the object Stock, the field Batch Valuation Type [BWTAR] did not show results (empty) even though the field was populated in SAP. This has now been corrected.

### SD 1905 6407 - Enumset compare possible

When comparing enumsets (lists) the position was compared, and not the value.

|  | Enum 1 | Enum 2 | Equal? | what is done? |
|---|---|---|---|---|
| Before 2020 | 1 Apple | 1 Mushroom | Yes | Both are on position 1 so equal. |
| 2020SP1 | 1 Apple | 1 Mushroom | No | Apple is not Mushroom so is not the same. |

Now the short name is compared.

### Incorrect PD Schedule Lines as result of Delivery Notes for Subcontracting PO's

For Subcontracting PO's, delivery notes were incorrectly taken into consideration in the calculation of the PD Schedule Lines. Although the subcontracting PO delivery notes are available in the purchase document history [EKBE-VGABE = 8], the material numbers are related to the components sent to the subcontractor, not to the PD line item (ordered material). This has now been corrected.

### SD 1910 3448 - Invoiced value, does not use the corresponding IR Item Currency

On PD item level the fields received, ordered and invoiced values are available in the history tab. In case the document currency of the invoice is not equal to the document currency of the PO, the invoiced value was not always correct. This has been corrected. Now when an Angle on PD item is created, the received, ordered and invoiced values are all shown in the user currency. This corresponds with the values shown in the SAP Purchase order history tab.

### SD 1911 1625 - Charts with buckets of 0,001 give zero results when drilling down

Fixed an issue causing drilldowns in Charts to result in zero results when using buckets of 0,001.

### SD 1911 11313 - Customer Price Conditions decimal correction KONV_V-KWERT

For some values in Customer Price Conditions [KONV_V-KWERT] the decimal correction was incorrect. This has now been corrected.

### SD 1911 11431 Module: CustomerMaterialInforecord wrong sublist definition

The Jump from the object Customer Material Inforecord to the object Sales Order Lines was not working correctly. This has now been corrected.

### SD 1911 14226 - Tool tip in chart blocks Drilldown option

Fixed an issue with the tool tip that appears on hover in a chart. When hovering on a chart element on the edge of the chart area, this tool tip would overlap the users' cursor, making it impossible to click on the chart for a drilldown. This has been solved.

### SD 1912 1284 - Add filter before Jump changes existing filter value of a filter below the Jump

Fixed an issue causing filter values to change when adding a filter before a Jump.

### SD 1912 6504 - dot space in module name

In the Workbench search results, selecting a module containing a dot space (. ) in the name, led to unpredictable behavior. This has been fixed and a module containing a dot space can be navigated to from the search results.

### SD 1912 11750 - Jump screens show icon Many to one relation incorrectly

Fixed the incorrect way the icon for 'Many to one relation' was displayed between the start object(s), and the references and sublists.

### SD 1912 13344 - Inconsistent tool tip behavior in pivots

Tool tips were shown inconsistently in pivots. This has been corrected.

### SD 2001 3744 - Bug in expand/collapse button in pivots

Fixed an issue causing the Custom sort dialog box to appear when clicking expand or collapse in pivot header cells.

### SD 2001 18687 - Pivot shows special characters incorrectly

In the pivot displays, special characters like ë were displayed as: & #235.
This has been solved.

## SD 1911 11915 - EA WBS Element reference in other format than WBS Element inn SAP

Currently a reference to the object EA WBS (work breakdown structure) Element shows the WBS Element in a different format than the format shown in SAP (transaction CJ13). For example, the WBS Element shown as 'T-20301.1.2' in SAP was shown as 'T2030112' in the EA reference to object WBS Element.

This has now been synchronized, so the result from a reference to the WBS Element will show the WBS Element in the same format as the SAP field with short name ID 'PRPS-POSKI'.

## SD 2002 2453 - Fixed leading zeros on MATNR on S4

SAP removes leading zeros for some fields when displaying values. Every Angle replicates this behavior, but this behavior was changed on S4. Now Every Angle also changed its behavior to match S4 again for MATNR fields.
We might discover more of these cases where S4 is slightly changed. We will then adapt the software accordingly.

## SD 0018 8528 - Fixed classification lookup fields

Lookup fields (aka enums) in classifications were shown with their short code instead of their description. This has now been fixed.

## Fixed Mediatype error in some occasions when executing Angle

In rare occasions users could get a Mediatype error when executing an Angle. This happened when the Display did not exist in the search database because of synchronization issues between the storage database (MSSQL) and the search database (SOLR). This error is now fixed.
The underlying synchronization issue is not addressed.

## Improved Application Server login performance

With many concurrent users the Application Server did not scale as intended and users experienced slowness and often the inability to login. This was mostly caused by inefficiencies in the way user sessions were handled and this is now greatly improved.

We addressed the following technical areas with regard to user sessions:

- Reduced cache size on session scope by centralizing the model fields cache
- Improved garbage collection handling
- Removed unnecessary locking
- Removed a redundant call on login

Fix concurrent login issues

Concurrent logins from users with the same authorization profile could lead to login failures. This resulted in accessibility issues during the 'morning rush' for a large customer. This is now fixed.

## 4. IT user - Highlights

Supported browsers

As of this release Internet Explorer, Mozilla Firefox and Microsoft Edge for Mobile will no longer be supported by Every Angle. This means these browsers will not be tested and bugs that are reported will not be resolved, unless these are blocking for customers. We have also updated the minimal versions of the browsers that are supported.

**Supported browser versions R2020SP1**

| Browser | Desktop | Mobile Devices |
|---|---|---|
| Google Chrome | 78 and higher | 78 and higher |
| Safari | 13 and higher | 13 and higher |
| Microsoft Edge | 18 and higher | **not supported** |

Repository logs in the IT Management Console

Repository (debug) logs can be accessed through the IT Management Console, the same way as the logs of the other EA components.

Repository logs made available in the MC

Log files of the Repository can now also be accessed through the IT Management Console.

Clean up committed versions

Committed versions can be removed via the History tab in the Modeling Workbench. A clean-up of the server disk can be achieved without logging in to the server.

View all logfiles in the IT Management Console

It is now possible to view all types of logfiles (including .log file extensions) in the IT Management Console and it is therefore no longer necessary to download the file to view it.

TLS 1.2 support

All components now support TLS 1.1 and TLS 1.2 for encrypted communication. Customers installing this as a hotfix need to upgrade the following components:

- Model Server
- Repository
- Web Server
- Real-time Model Server

When the server is locked to TLS1.2 and ZEA03N is used, then enable TLS1.2 on SAP. See SAP documentation for instructions.

## 5. IT user - Usability improvements

Active Model definition version viewable in the Web client and IT Management Console

User can now see the active Model definition version in the About popup in the Web client and IT Management Console. It can also be seen in the Model status pane in the IT Management Console.

New Actionlist EAPrerequisites introduced to enable configuration of amendments without full initialize

Many tables needed for configuring the amendments are only downloaded after a full initialize. To enable consultants to do the essential configuration without having to do this full initialize, a new download group [Grp-Prerequisites], and accessory action list EAPrerequisites, is created. This download group contains the most relevant tables to set up the model. By using this download group, the lead time for set-up/upgrade can be reduced.

## 6. IT user - Fixes and improvements

Re-implemented sorting and filtering in the Specify Tables popup

Re-implemented sorting and filtering in the Specify Tables popup in the Refresh cycle page of the IT Management Console, which got lost when moving to the Repository and Workbench. This makes it a lot easier again for users to search and find tables and to add them to the 'tables' action list for ad hoc table downloads.

## Tomcat no longer required as prerequisite

Apache Solr, a third-party component that we use for the search functionality in the Web Client, has been upgraded to 8.3.0. This version of Solr can run independently and therefore it is no longer needed to install Apache Tomcat as a prerequisite for the Application Server. The installation of Solr is included in the Application Server setup.
For upgrades, please make sure to undeploy the running Solr application and stop Apache Tomcat service before running the Application Server setup. Please see the Installation Manual for further details.

## SD 1901 3040 - Every Angle shows irrelevant SD Header/Item status fields [VBUK/VBUP]

Every Angle shows irrelevant SD Header/Item status fields [VBUK/VBUP]. These fields are used for technical / background processing reasons. They are empty for the business user and therefore not relevant for use. We have removed (hidden) these fields for the users to avoid confusion.

## Sysinternal Tooling no longer included in Model Server setup

We used to distribute Sysinternal tools, like Process Explorer. Due to licensing we are no longer allowed to distribute the tools.

## What's new on the latest CSM nuget packages

• CSM Client – Fix logging of parsing errors
• CSM Server – The component's "available" state (Status.Available = true) is now ONLY being updated in the background monitoring of component services via Ping. Parallel monitoring of component services.

## Not all configuration files copied to remote server in a multi-host scenario

In a multi-host scenario the application settings were not pushed to the remote server causing a newly installed server not to load because of a missing license.

## STS setup supports virtual paths

STS setup now supports virtual paths for the application (e.g. /test/sts instead of /sts) for manual installations.

## Force unique identifier when having many Schedule Lines

The internal administration from the Model Server could contain duplicate sequence numbers in case you'd have more than 65,534 schedule lines generated for one document. No customer impact is currently known, but the issue is now fixed as a preventive measure.

### Random failures on Batch classification restructure

The EATableRestructurer could rarely but randomly fail on Batch classification. This is now fixed.

### SD 1903 5775 - Cannot convert from INT to SMALLINT error, during the load of the Model Server

The number of possible schedule lines per header is increased from 32K to 2M.
This solves a model load failure caused by log file error: Cannot convert from INT to SMALLINT error.

### Improved error message when trace report TFieldPropertyCoupling error occurs

The message has been extended so it describes which config caused the error, making the error actionable.

### SD 1910 5437 - Validation of label names not in place when updating

When creating new labels, names are validated to prevent the use of special characters. This validation step was however lacking when users would update a name of an existing label. This has been fixed.

### SD 1911 11499 - Module Assembly on, Notification Items off, gives Xtractor warning

When activating the module assembly and deactivating the module notification items, you would get warnings in the extractor log about missing tables (QMFE, QMUR, QMSM). Because you can use the module assembly without the module notification items this was incorrect. This has now been fixed.

### SD 2001 4019 - Year filter not correctly translated

The notation YYYY was used to retrieve the year of a particular date. This checks the week number of that date and uses that week number to determine the year. In cases where a day (for instance December 30, 2019) lies in week 1 of the next year, in this case 2020, the year determined by YYYY is 2020, and incorrect.

The notation YYYY has been changed into yyyy, which uses the year in the date to determine the year and does not take the week number into account.

### Slow performance IT Management Console when multiple models are installed

Removed redundant communication in the backend to improve the performance of the IT Management Console when retrieving the list off all available users from the authentication provider.

### SD 2002 7795 - Removed TLS 1.0 Supported

TLS 1.0 is unsecure and has been removed. A new version is now supported.

### SD 2002 18310 - Improved SQL filter for STXH and SETHEADER tables

Removed length limitation on SQL where-clause for LongText and ControllingHierarchies modules. This will result in a smaller table and thus increase the download speed for STXH and SETHEADER tables when many items are activated in the Workbench.

### SD 0017 8670 - CSM Response shortened and JSON format

The CSM Response was a different format than expected and contained very much information, consuming a lot memory. The format has been changed to JSON, and the message has been stripped down to the essential information only: the status.

### TLS 1.1 support

The Application Server setup and the Model Server setup now have TLS 1.1 support.

### Added log message: Loading delivery note items statuses

In the analyzing phase of the model, some large tables are scanned to build a list of some delivery notes. This takes a while for customers with large models and this lengthy process was not logged. The start of this process is now logged with the following message in the General and Debug log: *Loading delivery note items statuses from ...*

### Cleaning of temp folders not handeld correctly

When cleaning up temp folders which are created during a commit it could be the case that cleaning up the temp files where done in the wrong order.

### Improved continuous refresh for fast SAP downloads

A subsequent continuous download was triggered too early when the import from the model metadata took longer than the actual SAP download. This is now fixed.
A workaround with a continuous refresh delay is no longer required and can be removed if applied.

### Fixed concurrency issue in Model Server authorization profiles

Fixed a scenario where sending an authorization profile to the Model Server multiple times at the same time, could locked-up the Model Server and no further queries where possible. This could happen in rare occasions when running a dashboard as the first action after login.

### Increased retry for CloverETL status requests

In rare occasions CloverETL returns an error on a status request while running a download. This leads to the incorrect assumption that the download failed, while it actually still runs.

The default retry-window is increased from 5 to 30 seconds. This can be further adjusted via the Windows registry in key HKLM\SOFTWARE\Every Angle\ModelAgent, values EtlRequestRetryCount and EtlRequestRetryIntervalSeconds.

### Moving files from secondary model sometimes failed

The Model Agent started to move files from a secondary model a few seconds too early. This could lead to the situation that the files from the secondary model where not yet in place and could not be moved to the primary model. This is now fixed.

### Fixed Clover upgrade issue

Fixed the issue that Clover could not be upgraded. The Setup did hide the Clover configuration page when the Clover service was running. This resulted in Clover configuration values not being saved. But this also handled configuration changes required for upgrade. The setup has now been changed to always save the Clover configuration. It preserves previously configured values.

### Fixed file moving error because of duplicate entries

Added a de-duplicator for files to move to the model folder during a refresh, to avoid refresh errors. Clover cannot guarantee that the list is unique when using custom graphs, therefore the Model Agent needs to make sure to only move a file once. The de-duplicator takes care of this now.

### Fixed rare case where automation tasks did not run when new model available

In rare cases the event that a new model was available, did not fire. This lead to the situation that automation tasks did not run, when scheduled to run when a new model was available. Also the angle warnings did not compute properly because the integrity check did not run. This is now fixed.

## Avoid connection loss between components

Increased timeout to fetch component status, to avoid connection loss under load.

## Cannot login at busy times

The Application Server used could a lot of memory (~10GB) when executing Angles that contain fields with large sets. The Garbage Collection process (ie: memory clean-up) could pause the application, leading to CMS ping timeouts, leading to a Model Server switch. This switch added high load where load was already high. The result was that the Application Server became unresponsive for a long time. The high memory allocation is now fixed.