

Angles for SAP Release Notes

Version: 2020SP8

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End user – Highlights

F2R: Better understand changes made to Assets

Has the value of assets been changed? Are there any assets de-activated? Who changed the date of capitalization? These and many more questions may arise when doing your internal control checks. All the information needed to answer these asset change questions is stored in the change documents in SAP. To make this information easy to access and use, we have added a new change data object including the related references to our A4S model: *Asset Changes [Object class: ANLA]*

This object contains the most common tables and fields for this area. Since the amount of changed data can be substantial, we have made it possible to customize the data you need for your business processes. The different change objects can be activated or deactivated, including their underlying tables and fields. This way, you can limit the amount of data to be loaded, while answering all your SAP change related data questions. This can be customized by your consultant at upgrade, by A4S functional support, or by your own A4S administrator.

Summary of the tables included in this accounting document change object:

ANLA	Tables	Description
Asset Changes	ANLA	Asset Master Record
	ANLB	Depreciation terms
	ANLC	Asset Value Fields
	ANLH	Main asset number
	ANLZ	Time-Dependent Asset Allocations
	ANEP	Asset Line Items

S2D: Better understand changes made to Bill of Materials

Which Bill of Material (BOM) has been changed? Are new BOM items added to BOM's? Are all required BOM changes made in all Companies/Plants? These, and many more questions may arise when doing you are maintaining your BOM data. All the information needed to answer these BOM change questions is stored in the change documents in SAP. To make this information easy to access and use, we have added a new change data object including the related references to our A4S model: *BOM Changes [Object class: STUE]*

This object contains the most common tables and fields for this area. Since the amount of changed data can be substantial, we have made it possible to customize the data you need for your business processes. The different change objects can be activated or deactivated, including their underlying tables and fields. This way, you can limit the amount of data to be loaded, while answering all your SAP change related data questions. This can be customized by your consultant at upgrade, by A4S functional support, or by your own A4S administrator.

Summary of the tables included in this accounting document change object:

STUE	Tables	Description
BOM Changes	STKO	BOM Header
	STPO	BOM Item

O2C: Better understand changes made to Customer Data

Is there a central delivery block activated for a customer? Who has changed the terms of payment? Which Incoterms have been updated? These, and many more questions may arise when you are maintaining your Customer Master Data. All the information needed to answer these customer master change questions is stored in the change documents in SAP. To make this information easy to access and use, we have added a new change data object including the related references to our A4S model: *Customer Master Changes [Objectclass: DEBEI]*

This object contains the most common tables and fields for this area. Since the amount of changed data can be substantial, we have made it possible to customize the data you need for your business processes. The different change objects can be activated or deactivated, including their underlying tables and fields. This way, you can limit the amount of data to be loaded, while answering all your SAP change related data questions. This can be customized by your consultant at upgrade, by A4S functional support, or by your own A4S administrator.

Summary of the tables included in this accounting document change object:

DEBEI	Tables	Description
Customer Changes	KNA1	Customer Master (General)
	KNB1	Customer Master (Company Code)
	KNVA	Customer Master (Unloading Points)
	KNVI	Customer Master (Tax Indicator)
	KNVK	Customer Master (Partner Functions)
	KNVP	Customer Master (Contact Partner)
	KNVV	Customer Master (Sales Data)

P2P: Better understand changes made to Purchasing Info Records

Are planned delivery times changed for my vendors? Who has changed the minimum order quantity? Are all required Purchase Info Record changes made in all relevant Purchasing Organizations? These, and many more questions may arise when you are maintaining your Purchasing Info Record Data. All the information needed to answer these change questions is stored in the change documents in SAP. To make this information easy to access and use, we have added a new change data object including the related references to our A4S model: *Info Records Changes [Object class: INFOSATZ]*

This object contains the most common tables and fields for this area. Since the amount of changed data can be substantial, we have made it possible to customize the data you need for your business processes. The different change objects can be activated or deactivated, including their underlying tables and fields. This way, you can limit the amount of data to be loaded, while answering all your SAP change related data questions. This can be customized by your consultant at upgrade, by A4S functional support, or by your own A4S administrator.

Summary of the tables included in this accounting document change object:

INFOSATZ	Tables	Description
Info Records Changes	EINA	Purchasing Info Record (General)
	EINE	Purchasing Info Record (Purchasing Org.)

S2D: Getting insight in BOM Items linked to a Routing/Operation

Manufacturing companies will create master data to run their manufacturing process. To run a production order at least Bill of Material - and Routing data needs to be present in SAP. In creating Routing (e.g. Operation) data, the link to a BOM-Item can also be entered or maintained. With this information, planning departments can efficiently maintain their master data and assess at which moment of the process a material must be available.

To provide this insight we have added a new object to our model: *BOM Operation Link [PLMZ]* and added references to the objects: BOM Header/Item, Routing Header/Operation. Additional properties are added to improve insight the valid from date and the number of links (active or non-active).

P2P: Better understand changes made to Vendor Data

Are Vendor Terms of Payment changed? Who has changed the Vendor Master Bank details? Are all required Vendor Master changes made in all relevant Companies / Purchasing Organizations? These, and many more questions may arise when you are maintaining your Vendor Master Data. All the information needed to answer these vendor-change questions is stored in the change documents in SAP. To make this information easy to access and use, we have added a new change data object including the related references to our A4S model: *Vendor Master Changes [Object class: KRED]*

This object contains the most common tables and fields for this area. Since the amount of changed data can be substantial, we have made it possible to customize the data you need for your business processes. The different change objects can be activated or deactivated, including their underlying tables and fields. This way, you can limit the amount of data to be loaded, while answering all your SAP change related data questions. This can be customized by your consultant at upgrade, by A4S functional support, or by your own A4S administrator.

Summary of the tables included in this accounting document change object:

KRED	Tables	Description
Vendor Changes	LFA1	Vendor Master (General)
	LFB1	Vendor Master (Company Code)
	LFBK	Vendor Master (Bank Details)
	LFBW	Vendor Master (Withholding Tax Types)
	LFM1	Vendor Master (Purchasing Organization)
	LFM2	Vendor Master (Purchasing Data)
	KNVK	Customer Master Contact Partner

System Insights/EA4IT: Getting insight into A4S System- and Model Roles

To improve your control on the A4S system we have added some new insights on A4S System- and Model Roles to the System Insights / EA4IT model. A4S System- and Model Roles are created and maintained in the management console. The Roles are used to customize the authorization of A4S users to your requirements. There are many often detailed ways the ways the authorization can be configured, for example, using objects, fields, filters and so on. To keep a good overview on the roles available per model in your management console we have added the following new objects to the system insights model:

- System Roles: A4S System roles and related privileges.
- Model Roles: A4S Model Roles and related privileges.
- Model Role Labels: Detailed privileges as specified per Model Role Label
- Model Role Objects: Detailed privileges as specified per Model Role Object
- Model Role Fields: Detailed privileges as specified per Model Role Field
- Model Role Filters: Detailed privileges as specified per Model Role Filter

All objects are imbedded in our model allowing you to start your analysis on objects User > User on Role > System Role or Model Role to Model Role Labels / Objects / Fields / Filters. This gives insight into the most detailed level of the A4S user authorization, enabling you to answer and resolve any authorization questions / issues in an efficient manner.

Batch Management - Quantity at Risk

We have added the following enhancements to our Batch Management - Quantity at Risk functionality:

- The logic to for fields SLED Allocation Status and Quantity at Risk have been improved. The logic is explained in detail in the revised help-text.

- A special template (Batch Management - Quantity at Risk) has been introduced to indicate any current or future issues around obsoleted batch stock.

The optimized fields and new template will provide you with an immediate insight into the risk that batch stocks might perish before consumption or delivery. With this insight preventive actions can be planned and executed to mitigate this risk. For example, by creating additional demand, replanning requirements dates and reallocation of batch stock.

O2C: Getting insight in Group Deliveries

In SAP it's possible to combine one or more items (main items and/or sub-items) in a sales order so that they can be delivered on the same date. An item that is confirmed for several delivery dates can be confirmed for a single delivery date if it is assigned to a delivery group. We have added the group delivery number to the object Delivery Header. This will give you insight in all deliveries belonging to a group delivery and vice versa.

End user - Fixes and improvements

System Insights/EA4IT: Introduction of Enumsets

In the A4S model the use of numbered set fields was already very common. This feature allows you to create filters based upon; 'Is in list'. These enumsets were not available in System Insights model until now. We have introduced the following enumsets:

Object	Field(s)
Audit Log	Action, Target Type, Parent 1 Type, Parent 2 Type
Display	Display type
User	AuthorizedModels
User on Role	AuthorizedModels, RoleType, Role Name
Datstores	Data Store Name
Task History	Result
Action History	Result

System Insights/EA4IT: New fields added to objects Datstores and Automation Tasks

To improve the control on the Angle Exports and Automated Tasks we have added two new fields to the objects *Datstores* and *Automation Tasks*:

- Created By
- Created On

System Insights: New field added to the object Extraction Tables

To improve the analysis and control of the extraction process, we have added a new field to the object *Extraction Tables* called: *SAP Run Duration*. This field shows the Total Job Duration in seconds of each individual SAP Extraction Table.

System Insights: New fields for insight into specified download locations of Automation Tasks Actions

To improve the control on the Angle Exports / Automated Tasks Actions we have added two new fields to the object Automation Task Actions:

- Data Store Folder: The default storage location for the datastore can be specified in: Angle Exports > Datastores.
- Subfolder download location: The optional subfolder can be specified in the related automated task action. Consequently, you can use different subfolders for different actions while reusing the same datastore location.

With these fields you can stay in control of the locations A4S data is exported to. In the template Automated Tasks Actions, a new display is added '*Data Export Locations per User*' to give you the required insight.

Change Documents: Insight into Type of Change

We have now made the *Type of Change* field applicable to all Change Document objects. The logic to determine the Type of Change is based upon the SAP Data Type field. With the type of change fields, you can easily identify the following changes:

- Planning Changes - Date/Time
- Planning Changes - Quantity
- Price or Currency Changes
- Block Changes
- Partner Changes
- Rejection Changes

The type of change field was already available in the A4S model but only applicable to Sales / Purchase document changes, this field can now be used for analysis on all Change Document objects.

MDM: Getting Insight into objects related to SAP Documents

Within SAP multiple document types can be created and maintained, like Packaging Instructions, Engineering Descriptions/Drawings, Recipe documents and many more. In A4S there is an

object *Document Object Links* available to manage these document types. Different objects like Materials, Bom Headers, Equipments, Notifications, Workorders etc. can be related to these document types. To make different objects like Materials, Bom Headers, Equipments, Notifications, Workorders etc. can be related to these document types. To stay in control of this complexity we have introduced a new object: *Document Object Links*. This object is based upon the SAP Document Info Record Table [DRAW]. This object will show you all available document types, their document status and all the objects linked to the documents.

S2D: New references added from Routing Header to Work center and Assembly

New references have been added from the object *Routing Header* to the objects *Workcenter* [*Workcenter for capacity planning*, PLKO-ARBID] and *Assembly* [*Assembly* PLKO-ISTRU]. When creating analysis on Routing Header data, Workcenter and Assembly data have now become available for detailed analysis. This will further extend the flexibility of the A4S model to answer all kinds of different business questions.

S2D: Added fields from Material on Production Plant to Work Order and Operation

We have added the fields *MRP controller* and *Purchasing Group* from the *Material on Production Plant* to the objects *Work Order* and *Operations*. In most cases there is no difference between the Planning plant - and Production plant data. However, sometimes the data is different, g.e. in subcontracting scenarios.

S2D: Getting insight into Control Cycles and Supply Areas

Control cycle can be used to define for your plant the production storage bin in which a certain material is to be staged for production and with which staging type, within a production supply area. Multiple control cycles can assigned to a Material Plant, i.e. when the same material can be consumed by different production lines. To stay in control of this planning data we have introduced a new field in the object Material on Plant level: *ControlCycle_SupplyArea*. This field shows all the Control Cycles and the Supply Areas that are applicable to the Material on Plant combination.

S2D: Description of MRP Area

In the A4S model, the MRP Area field was already available [BERID]. This shows the MRP Area id/code. Now we have also added the field *MRP Area Description* [BERTX], making it easier to identify the location/purpose of the different MRP areas. This field has been made available in every object containing the MRP Area field, like Material on MRP Area Level, Safety Stock Demand, Storage Location etc.

S2D: SAP field projectnumber not available effecting project-references

The SAP field *projectnumber* (AFKO-PRONR) data was not available in the extraction, returning an empty field. But also effecting project references from classes like Workorder,

Reservation item, Operation etc. to the classes “Project” and “WBS element” from the A4S module *ProjectBasics*. This has now been fixed, making project number-based analysis available again.

S2D/PM: New references added from object Routing /Operation to the objects Header/Item and Functional Location

New references are added from the object Routing / Operation to objects. This will further extend the flexibility of the A4S model to answer all different types of business questions like:

- Which operations are externally procured and covered by a Purchase Outline Agreement?
- Which functional locations are maintained in which maintenance operation?

O2C: Getting Insight into all Handling Units in Deliveries

New sublists from the object Delivery Item and Header to the object Handling Unit Header and item have been added to the Angles for SAP model. With these sublists, you can expose all handling units related to your deliveries. And if you want to trace a specific Handling Unit number, you can now use the new reference to the delivery item / header. On Delivery Item level we added two new property fields # Handling Unit Header / Item. This will make it easy to identify on delivery item header/item level if and how many handling units are related to any delivery item header/item.

O2C: New reference added from object Material on Sales Level to Material

A new reference has been added from the object Material on Sales Level to the object Material. This will further extend the flexibility of the A4S model to answer all different types of business questions.

O2C: Insight into Billing Block Removal by same person who created the Sales Order (Segregation of Duty)

A new display has been added to the template Sales Document Changes named: Segregation of duty: Billing block removed by creator of Sales document. This gives direct insight in the removal of billing blocks by the same person who created the sales order. As part of the segregation of duties policies this should not be possible, and this list should always be empty.

O2C: Getting insight into shipment loading rescheduling.

Are loading activities started and finished according to plan? Or have they been rescheduled? To provide this insight we have added the following new fields to the object Shipment Header:

- Loading Difference Start: displays the difference between the planned start date and time versus the actual start date and start time for loading.

- Loading Difference End: displays the difference between the planned end date and time versus the actual end date and time for loading.

The value of both fields is displayed as a timespan and will give you immediate insight into the performance of the planned loading activities. Both fields are available in three variants: dd:hh:mm / hours / minutes. Also, a new display is added to the template Shipment Header named *Loading Activities; Planned vs Actual*.

O2C: Sales Document Changes; new references added

To improve the insight in sales document changes we have added new references to the object Sales Document Changes:

- Material on Plant Level
- Material on Sales Level
- Plant

P2P: New reference from Purchase Price Conditions to Company Code and Purchasing Organization

New references have been added from the object *Purchase Price Conditions* to the objects *Company Code* and *Purchasing Organization*. This will enable aggregations on Company Code and Purchasing Organization.

P2P: new reference from Info Record Changes to Company Code and Plant

To create a more detailed analysis on your Purchase Info Record Changes as part of the Module Change Documents 2.0. We have created two new references for the objects Company Code and Plant. With these references you can filter on changes made for In Purchase Info Records for specific Companies and/or Plants.

P2P: Purchase Document Changes; Reference added to Plant

To simplify analysis on large quantities of purchase document change data, we have added a reference field '*Plan*' to the related Plant object. Users are now able to display sub selections of change data using Company and or Plant.

P2P: Getting insight into Withholding Tax Type for Vendor on Company Codes

Withholding Tax is a Tax Type allocated to specific types of vendor in order to manage tax collections. Vendors subject to withholding tax have the tax portion of their payment 'withheld' and collected by the paying company. We have introduced a new object: Vendor Withholding Tax Type [LFBW] with a reference to the object Vendor on Company Code Level. [LFBW].

This will provide you the insight into this tax control master data and will enable better control on the correct booking of purchase document lines subject to withholding tax.

P2P: Getting insight into Delivery Priority of purchase order items

In SAP, it's possible to set delivery priority on purchase order lines. We have added the field *delivery priority* [EKPV-LPRIO] to the object *PD-Item*. This will give the possibility to create insights in the processing of purchase order items based upon delivery priority.

P2P: Getting insight into Purchase Document Release Strategies

In SAP, a release procedure for purchase documents can be customized. It will reflect the authorization policy for buying goods externally. When using the release strategy, sometimes issues can occur, like unnecessary long lead times in releasing, unauthorized persons in releasing a PO, etc. We have introduced a new object in our Angles for SAP model: *Release Strategy* based upon SAP table SAP Release Strategies [T16FS] and created references from the objects *Purchase Requisitions* and *Purchase Document Header* to this new object. You can now add the person responsible for releasing and the specific release schedule to your purchase requisition/order analysis. Enabling you to identify, prevent and resolve issues/delays in the release process.

MDM: Additional Alternative Unit of Measure Metric Ton (MT) and Ton (US TON)

The alternative unit of measure MT (Metric Ton) and Ton (US TON) have been added to the A4S model. This will enable you to show total quantities in these alternative units of measure as well.

F2R: Insight in Payment Runs to optimize cash flow

If you have several house banks that you can use for your payment transactions and have limited funds in these accounts, you will have to plan the cash balances available for each bank account and specify the ranking order by which the program is to use these accounts. In addition, because there are several house banks available to the payment program, you must enter the order in which the bank accounts are selected. We have introduced a new object in our Angles for SAP model: *Payment and Discount Run* based upon SAP tables Settlement / Processed data from payment program [REGUH/REGUP]. This will provide you the insight into your payment run proposals and executions. By making the cash discount and invoice details available in this object it will enable you to maximize the cash discount taken while optimizing your cash flow.

F2R: Getting insight into Exchange Rate Data history

In SAP, different exchange rate types are maintained for conversion between different currencies used by your company. For insight into this data, we have added a new object based on the SAP table TCURR: Exchange Rates. The new object shows all the historical exchange rates of your company currencies and related ratios, ordered by exchange rate type and validity from date.

This will support data analysis based upon historical exchange rates and efficient exchange rate master data maintenance.

Fixed issues

QM Basic module: incorrect results in QM property fields

Incorrect logic on SAP Inspection Characteristic Master Table, *Field Control Indicators* [QPMK- STEUERKZ], could result in incorrect dependent QM property fields, when first position of the field Control Indicators is blank [QPMK-STEUERKZ]. This has now been resolved.

P2P: Wrong PD schedule lines using (inbound) delivery note numbers

SAP uses (inbound) delivery note numbers to link to PD Schedule lines. This was not part of the Angles for SAP PD schedule line creation logic yet, leading to the incorrect coupling of data, some execution statuses, and due dates of PD schedule lines. This has now been resolved. As a result, Angles for SAP will show improved schedule line creation, statuses and ONC matching result. RETPO is a standard field within SAP Table EKPO that stores Returns Item information.

Conversion from CAD to USD and VND to USD doesn't match with TCURR (Financial Value)

Standard SAP logic as specified in the SAP ABAP code base has been introduced. As a result, A4S currency-conversion now follows the same currency conversion logic as SAP itself, matching the TCURR (Financial Value).

Wrong ordered value & received/invoiced value

Incorrect logic on applying currency conversion factors [TCURF] could result in incorrect values for Historic Purchasing Document Data [EKBE] and Sales Document Flow data [VBFA] based values. This has now been resolved.

DC to LC Currency Conversion incorrect when decimal correction and TCURF- TFACT=1000

The currency conversion from Document Currency to Local Currency was incorrect when both: decimal correction (TCURX) and TCURF-TFACTOR is applying a factor. This has now been resolved.

Currency Conversion Issues

In SAP many fields are defined as currency. A4S used to have customized currency conversion logic to calculate from document currency to local-/user currency. Some specific scenarios were not supported by this customized logic, resulting in different currency values compared to SAP. This customized currency conversion logic is now replaced by the standard SAP logic as specified in the SAP ABAP code base. As a result, A4S currency conversion now follows the

same currency conversion logic as SAP itself, including all specific scenarios. Currency values displayed in A4S can be impacted by this change. All changes will be improvements, now reflecting the same currency values as in SAP itself.

System Insights: field Duration does not work

The field *Duration* was returning a blank or incorrect result. This has now been resolved. The field *Duration* is available in the objects *Modelload*, *Phases*, *Classes* and *Extraction* and is calculated by the difference between the finish and start time, rounded to seconds.

Batch changes not available in S/4 Hana

Changes to Batches are stored differently when using an ECC or S/4 Hana system. The batch changes for S/4 Hana systems were not available in A4S. This has now been fixed.

OTIF calculation, angle/export fail

In some cases, angles with OTIF related calculations failed at execution or export. This has now been resolved.

Users getting logged out while still being active

User sessions should not expire if the user is interacting with the system. This was not implemented correctly throughout the system. Users could be logged out unexpectedly after the initial session expiration time, while still having used the system recently. This has been fixed, so sessions expire after the timespan 'final activity + configured time'.

Price Unit is empty in case of Quantity Scale conditions

In the case of Quantity Scale Conditions (A4S object Condition Record), the SAP field Price Unit (KONP-KPEIN) showed no data. This has now been resolved.

Restructure of SAP table IHPA (Plant Maintenance Partners) is not correct

The restructuring of the SAP table Plant Maintenance: Partners [IHPA] was not always correct. Consequently, the field *Partner Role in Quality Notifications*, would show the *Created by* user instead of the name of the Partner specified in SAP. This has now been fixed.

RETPO is a standard field within SAP Table EKPO that stores Returns Item information.

ONC fails to complete

Fixed server a server crash caused by invalid data. Improved the logic to prevent the server from crashing in case of invalid data and simplified the root cause analysis (stack-trace).

Reference from Invoice Receipt Item to First Accounting Document incorrect

The reference from *Invoice Receipt Item* to *First Accounting Document* resulted in errors in the server log in case the F2R module (Finance) was not activated. This has now been resolved.

IT user - Fixes and improvements

P2P/O2C: Delta Condition added to SAP Pricing Conditions KONV_M (or PRCD_ELEMENTS)

To optimize the required refresh time of your A4S model we have added an additional delta condition on *SAP Pricing Conditions* KONV_M (or PRCD_ELEMENTS). This is often a very large table to load. By using this delta condition, you can now reduce your refresh time on this table.

Fixed issues

System Insights / EA4IT: Angle warnings on EA4IT - Performance Dashboard – Functional

After activating the EA4IT packages in the EA4IT model, the EA4IT 'Performance Dashboard - Functional' was showing Angle warnings. This has now been fixed.

Refresh Cycle negatively impacted by low load performance Purchase Document Schedule lines

The refresh cycle could be negatively impacted by a slow load performance on Purchase Document Schedule lines. This was caused by an inefficient Find key Logic in VBFA_LIPS (delivery notes). This issue is now resolved.