



Angles for SAP Release Notes

Version: 2020



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1. End user - Highlights

GRC (Governance, Risk and Compliance): 71 new standard GRC controls added!

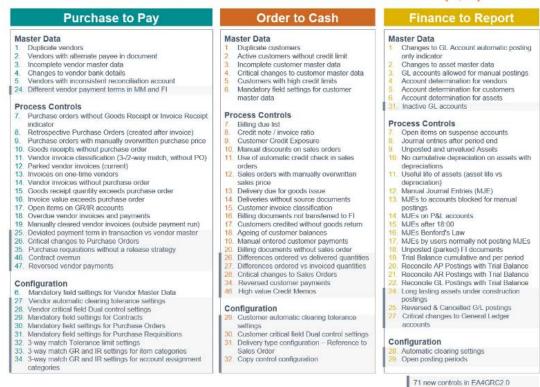
Every Angle for GRC (Governance, Risk and Compliance) has been supporting you for several years in continuously monitoring risks in your Purchase, Sales and Financial transactions. With Every Angle for GRC, users in audit or finance are empowered with a defence against process and data non-conformance. It provides businesses with constant security and continuous control that supports best practice guidelines within any company's Risk and Control framework.

The previous version contained 71 controls. We have now doubled that number giving you 142 standard controls! The following main additions have been made:

- Extended Purchase, Sales and Finance with additional controls on Master Data, Process and Segregation of Duties.
- New Configuration and Fraud analytics controls.
- New Production and IT controls.

A detailed overview of existing and new controls:

142 out-of-the-box controls in the EA4GRC module (1/2)



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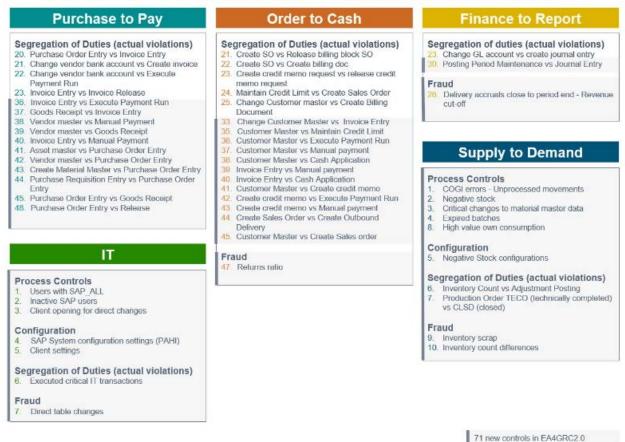








142 out-of-the-box controls in the EA4GRC module (2/2)



Not using EA Governance Risk and Compliance (GRC) yet? Have a look what it can do for your business: https://www.everyangle.com/business-process/grc/

Show percentages when hovering over graphs if 'Show as Percentage' is activated

The info popup that appears when hovering over a graph will now display the percentage instead of the value when the "Show as Percentage" checkbox (in the Options dialog box) is enabled.

QM: introduction of new transaction objects Quality Inspection Result, Inspection Point and Material Specification

Quality Inspection Result

In SAP Quality Management the characteristic specifications for inspections are recorded as a result of the inspection. The actual results of the inspections are now made available in the Every Angle object Inspection Result.















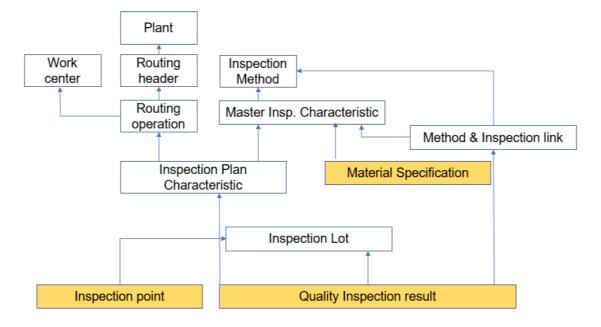
The object Inspection Result shows the value of the outcome of the inspection. The field Result Valuation shows additional information whether the result can be considered as good, bad or warning (in case the lot is accepted, yet very close to the quality boundaries).

Quality Inspection Point

This new object makes it possible to show how many inspection points per quality inspection lot exist; a more detailed analysis is possible by adding the fields on rejected, accepted or non-valuated inspection points.

Material Specification

In Quality Management it is possible to inspect based on an inspection plan, but it is also possible to inspect using Material Specifications that are valid on a company wide basis. In contrast to the inspection plan, the material specification is a specification that you can use for all plants, that is easier to maintain, and that can replace or supplement a plant-specific inspection plan. This object is also introduced in Every Angle to get more insight into the quality process.



COGI (Postprocess Faulty Goods Movements); added object Goods Movements with Errors from Confirmations

The SAP COGI transaction (Postprocess Faulty Goods Movements) is used to identify and correct error system records in case of automatic goods movements. For example, system errors in good issue or good receipt transactions, such as 'Stock is not available'.













These error system records are stored in SAP table AFFW. If the errors are solved, they will disappear from transaction COGI and table AFFW. In the most perfect situation, COGI will be empty.

This new object will show all available records in table AFFW. This will enable you to create exception reporting on faulty goods movement postings.

QM: introduction of Sample Result and Physical Sample object

In Quality Management it is possible to record results on an aggregated level (Inspection result) and on a more detailed level (Sample result). To be able to analyze on a more detailed level, the new objects 'Sample result' and 'Physical sample' are now available.

Sample result

The Inspection Result is a process to record, valuate and close inspection results. This can be done for example for physical samples, individual samples and inspection points.

When you valuate inspection characteristics or partial samples, you determine whether the predefined quality requirements have been met. The results provide the basis for making the usage decision, and they are used to automatically determine the sample scope for future inspections. A successful valuation is a prerequisite for closing a characteristic or a partial sample.

Physical sample

The sample management component in SAP supports the inspection processes with functions for drawing, inspecting and managing physical samples in quality inspection. The physical sample is a formal sample with a unique ID. Physical samples can be created manually or can be the outcome of a sample drawing procedure.



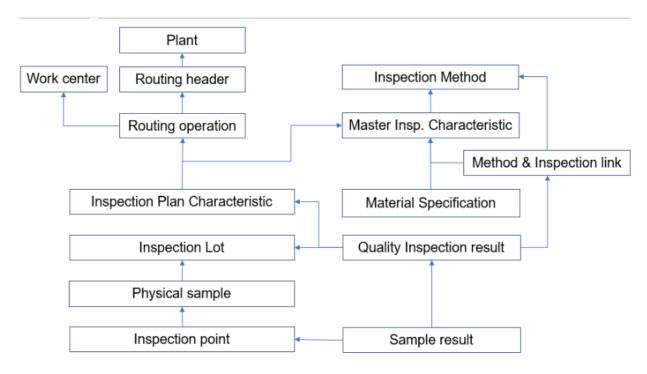












Physical inventory documents object added to show relevant information on inventory counting

Physical inventory is a process of determining that the inventory quantities are exact, or determining if there are differences in quantity mentioned physically present in stock and quantity registered in the SAP system.

Basically, after you are finished with the physical inventory, your system and physical stock levels must be the same.

There is a now a new object based on table IKPF/ISEG. This object shows your Physical Inventory Documents with all relevant information about your inventory counting.

Help text functionality in the Modeling Workbench

R2020 introduces the help text functionality in the Modeling Workbench. Hereby an overview of the new features:

- Standard Content help texts are available in read-only mode
 - Help texts are available in all five required languages, grouped by source.
- Customer Content help texts are editable
 - Customer Content help texts are made editable in the Modeling Workbench in the Help Text mode. This is for both help texts that are imported and for help

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texts that are created in the Modeling Workbench. With a drop-down list the user can choose a given language. The help text page includes validation that requires the user to choose a category and to fill in a short name, long name and definition to save a complete help text.

- Help Text Overview page
 - o Customer Content help text changes are sorted on date modified.
- Glossary
 - A glossary has been added to the Modeling Workbench. A glossary id can be added to a help text. For the five required languages, the glossary id is automatically translated into the correct language.

2. End user - Usability improvements

Automatic scroll when applying sort on a chart

Fixed an issue causing the scrollbar to always jump to the bottom of the screen when applying a sort in a chart. The default position of the scrollbar is now at the top.

Default display for class and function templates

In a previous change we implemented that for all Angles the default Display would be the basic list. Because sometimes there are exceptions based on specific business questions / activities, we have refined the logic to determine the default Display as follows:

- 1. Class templates: the default Display is always a basic list
- 2. Function templates: the default Display can be predefined, for example a pivot or graph

3. End user - Fixes and improvements

Rebate Agreements partner role information added

We have added partner role information (contact person, person responsible and employee responsible) to the Rebate Agreement object. In SAP the partner roles created on rebate agreements can be found via transaction MEB3 - GoTo Agreement Partner. Having this partner role information available in the rebate agreement object will help checking whether the partner role information is available and still up to date.

P2P Added Vendor Contact Data

We have extended the logic of contact person with vendor contact person. For both customer and vendor contact persons, the object (customer contact partner) contains the name, telephone number, function, call frequency and call schedule of contact persons. For your convenience two new templates have been created:













- 1. Customer Contact Person
- 2. Vendor Contact Person

Object 'Material Plant': added new property/field 'PricePerUnit' of a material in local currency

In the object Material Plant, a new property/field has been added which displays the Price per Unit of a material in local currency, depending on the price control indicator [MBEW-VPRSV].

- If the price control indicator is 'S' (Standard Price) the standard price per unit is displayed [MBEW-STPRS / MBEW-PEINH].
- If the price control indicator is 'V' (Moving Average Price) the moving average price per unit is displayed [MBEW-VERPR / MBEW-PEINH].

Return Deliveries included in EA Order Network Calculation (ONC) Logic

Return Deliveries (SAP table EKBE purchase document history, Field VGABE Transaction/event type = R), were not included in the (ONC) Logic. The return deliveries have now been added to improve the ONC logic.

F2R object diagram button 'Parked Postings' to 'Spend Analysis'

The name of the F2R object diagram button 'Parked Postings' has been renamed to 'Spend Analysis'. And, a spend analysis template has been attached to it.

Corrected reference from Material Document Items to Supplying Vendor

Every Angle shows a reference from Material Document Items to the supplying vendor of the materials. The vendor shown was the vendor of the receiving plant instead of the supplying vendor. This has now been corrected to the supplying vendor.

SD 1907 5422 - Decoding of field IDs for XML result in constantly changing field IDs in OData

When the ID of a field in Every Angle contained a special character, it would be decoded to make it usable in OData, which is XML based. However, this decoding resulted in a randomly chosen suffix, that would change every time OData would reload. This makes it unusable for customers who refer to this ID in OData for further processing. This has been fixed: fields IDs are decoded to a fixed value.

SD 1907 2602 - MRP relevance of quotations (VBAK-VBTYP='B') is wrong

Quotations can be entered in SAP and are visible in the Stock Requirements list (MD04) as being MRP relevant. However, when there are follow up documents available (referenced sales orders or subsequent deliveries for these sales orders) the quotation is no longer MRP relevant. The reason being that the new documents are taking over and become the MRP relevant documents.













In Every Angle the logic to determine the MRP relevancy in case of quotations was not correct causing both the quotation and the subsequent documents to become relevant (double counting / mismatch with MD04). This has now been corrected.

SD 1908 8360 - Module Engineering Change leading zeros from material number removed

In the module Engineering Change, leading zeros on the field material [AEOI-MATNR] caused references to fail. This has now been corrected.

SD 1909 3002 - Scrolling to the top of navigation tree in Workbench

Scrolling to the top of the navigation tree in the Workbench can be now achieved without closing folders.

4. IT user - Highlights

Clover DX 5.4

We have updated to Clover DX. For release notes see: https://support.cloverdx.com/releases/5.4

Retry mechanism on import metadata

When the import of metadata failed, there was no retry mechanism in place. A retry mechanism has now been implemented.

Added support to DNS aliases

The STS, content repository and modeling workbench are now supporting DNS aliases (C Name records). This will provide the customer the opportunity to create logical urls for both the webclient and the modeling workbench.

6. IT user - Fixes and improvements

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.

Full path needed in Copy Method

On newer windows server versions, copying of files might fail if the full path of the target file is not specified. This is a known issue by Clover ETL. A workaround has been applied in code. A fix will be included in Clover DX 5.5.















Results of intergrity check not stored correctly.

When the IntegrityCheck is started after a model instance change, the results of the check are not stored in the database, and for recent versions of EA also not in Solr:

- **2019SP1** and earlier versions (2018SP9): the database is not updated; only Solr is updated
- 2019SP2 and later versions: both the database and Solr are not updated.

The IntegrityCheck is also started for an Angle when it is created or updated. In this case both the database and Solr are updated correctly. The issue only occurs for IntegrityChecks which are started after a model instance change.

The integrity check results are now stored correctly

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.

SD17099710 - Download error in FiCoBasicConfigurationAndMasterdata

KONV(KONV_V) & VBRK(VBRK_KNUMV) was wrongly defined in FiCoBasicConfigurationAndMasterdata. This has been corrected.

SAP password encrypted in the LogonData.cfg

The password in the Logondata.cfg is now encrypted.

SD 1903 2460 - Combinations on profile filters applied incorrectly

When applying multiple profile filters there was a chance that the combination would show the user more data than expected. This problem has been resolved.

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.













SD 1907 7310 - When deselecting all filter values, a filter was still applied to an Angle

When deselecting all filter values on an Angle, a filter was still sent to the query. This was incorrect and has now been corrected. Deselecting all filters now removes all filters.

SD 1909 4289 - Deleting multiple dashboards, results in a null reference

When deleting multiple dashboards there was a case that a null reference could pop up. This has been fixed. The null reference is no longer possible.

SD 1909 5705 - Model Agent does not update Clover status after extracting phase

The Model Agent did not update the Clover status after the extracting phase. The cause was that the delta replication clean up was still running and did not update the status of the refresh in the end. This has been corrected and the status is now updated correctly.

Automated task section won't open anymore

The amount of data sent back to the Web Client for automation tasks was very large. We have limited the amount of data in this area and now only send back data from the Application Server to the Web Client which is relevant for the Web Client.

SD 1909 9010 - Allow removal of default roles in the Add user screen

Based on new insights, the previous change in this interaction has been reverted so that admin users can remove default roles from the selection screen when adding new users.

Performance of the Overview page in the IT Management Console

The communication between the IT Management Console and the back-end has been optimized for a better performance. This is especially noticeable in the Overview page when 5 or more models are installed.

New optional setting for query result check interval

During the execution of automation tasks and OData the exports, the polling of the query results was cluttering the network, especially with a lot of tasks.

Therefore two new settings are introduced:

1) The interval can now be configured.

For version 2018SP9, 2019SP2 and 2020











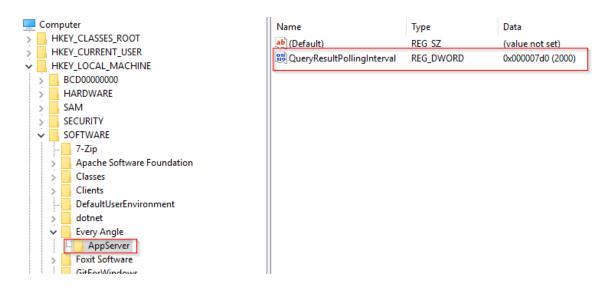




For this the default polling is set to 2 seconds, but can be influenced by adding a setting to the EveryAngle.Edgar.Service.exe.config file adding a setting in the registry:

```
<appSettings>
...
<add key="QueryResultPollingInterval" value="<miliseconds>" />
...
</appSettings>
```

For version 2020SP1



2) The amount of connections for the Application Server can now be configured.

DefaultConnectionLimit setting for the Application Server is now set to 100. This can be changed in the registry:

'LOCAL_MACHINE\SOFTWARE\Every Angle\AppServer\' DWORD value of "DefaultConnectionLimit"



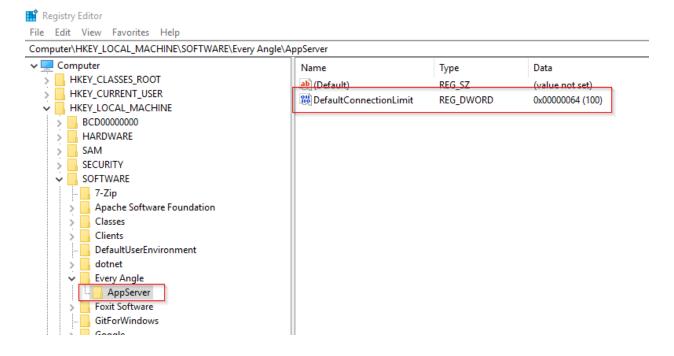












Clean-up of temporary export files

A clean-up mechanism has been implemented to make sure that temporary files, which are created during the export of an Angle, are deleted afterwards. This prevents the the disk from filling up.

Angle shows a ServiceUnavailable error on dashboards

The re-use of connections could lead to issues on dashboards, because the internal object is not thread-safe. This is fixed by disabling connection re-use. Also, sending of queries/profiles to the Model Server now uses the model server timeout setting exposed in the management console.

SD 2002 19607 - Loading classes hangs on PurchaseDocumentScheduleLine and SalesDocumentScheduleLine

When the Model Server was loading the classes of new data, the process would not finish when loading classes on 'PurchaseDocumentScheduleLine' and 'SalesDocumentScheduleLine' (resulting in an endless loop). As a consequence the server would not finish the loading task. This was caused by a technical rounding issue when reading the data. This has now been fixed.















00179734,00182266 - Upgrade packages now have a fallback to EASystem user

For exporting Angles the default page size can now be higher than 200.

00181414 - Fallback to system user for upgrade packages

When importing an upgrade package there was a check if a user existed. If the user did not exist there was no fallback defined. A fallback has been introduced to the EASystem user.

Debug log files overflow

The "DebugOrderNumbers" activates the "DebugToJSON" feature. Once activated, it does not deactivate again and the internally created JSON data is not removed. This causes the debug log files to overflow, leading to an overflow exception. This has now been fixed.

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.

7. Known issues

SD 1908 6559 Exceptions during activation of packages no longer causes a failure

During the activation of a package, exceptions can occur when a number of Angles has already been uploaded successfully. The result is that those Angles cannot be deleted by deactivating the package, because the initial activation of the package was not successful. In theory this can still happen, however the specific root cause for the failure in this case has been fixed. Another known issue is that packages can only be activated successfully when the Model Server is Queryable. This will be fixed in a next service pack.











