



Managing Data Check

Learn how to analyze and repair warnings in beas

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1. INTRODUCTION

In computer science, data validation is the process of data cleansing to ensure data quality, that is, that it is both correct and useful. It uses routines, often called "validation rules", "validation constraints" or "check routines" that check for correctness, meaningfulness, and security of data that is input to the system.

Data validation is intended to provide certain well-defined guarantees for fitness, accuracy, and consistency for any kinds of user input into an application or automated system. Data validation rules can be defined and designed using various methodologies and be deployed in various contexts.

For every process, there is always inputs and outputs. In order to get the most accurate and correct results, the input must be correct, too.

To guarantee the quality in the results, there must be data validation.

2. PROCESS

beas includes a data check function which checks all relevant data for consistency. In addition, important SAP parameters are checked.

As beas can only function correctly if data is consistent, all errors that occur during the data check must be processed and rectified in advance by the user to ensure the correct operation of the system.

Certain beas functions could not work properly if there are messages pending to resolve, that is the reason why if you run the MRP or APS material check, a warning is displayed, although it will still start in most cases.

The data check is started when a program update is performed automatically or manually. After the check is finished, the system opens a screen with all errors found.

Data check will include the following:

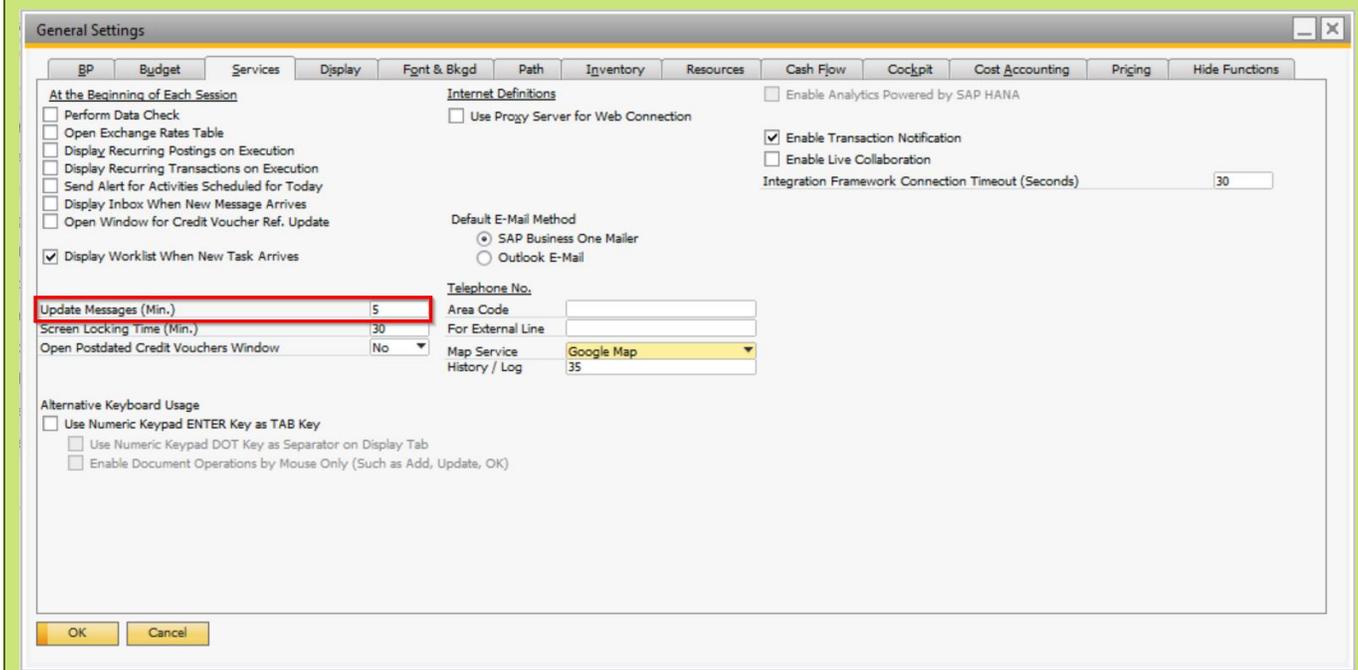
- Data content check
- Check Store Procedure SBO_SP_TransactionNotification. beas uses this procedure in different functionalities so it has to exist (in case it has been deleted from SAP). Furthermore, beas will check for the latest version when the procedure has been manipulated (added code for validations)
- Calculate plan times for all resources and resource groups
- Standard calculation schema checks and correction, if necessary
- Manufacturing Position check and correction: the switch "Disposition", "Order reporting", "Material posting" and "Consideration of scheduling"
- Operation types check and correction, if necessary
- Quality control orders: cross-references check and correction
- Rebuild print documents: specifically in the table beas_document_header / beas_document_line. If necessary, add re-defined UDFs
- Import standard web applications (WEBAPPS)
- Set several default values

2.1. How to run the Data Check functionality?

Data check can be executed automatically and manually. To execute it automatically, the user can set it up in the configuration wizard. For more information, please refer to the section [Configuration Wizard](#). This will run the moment beas starts and several times while beas is connected.

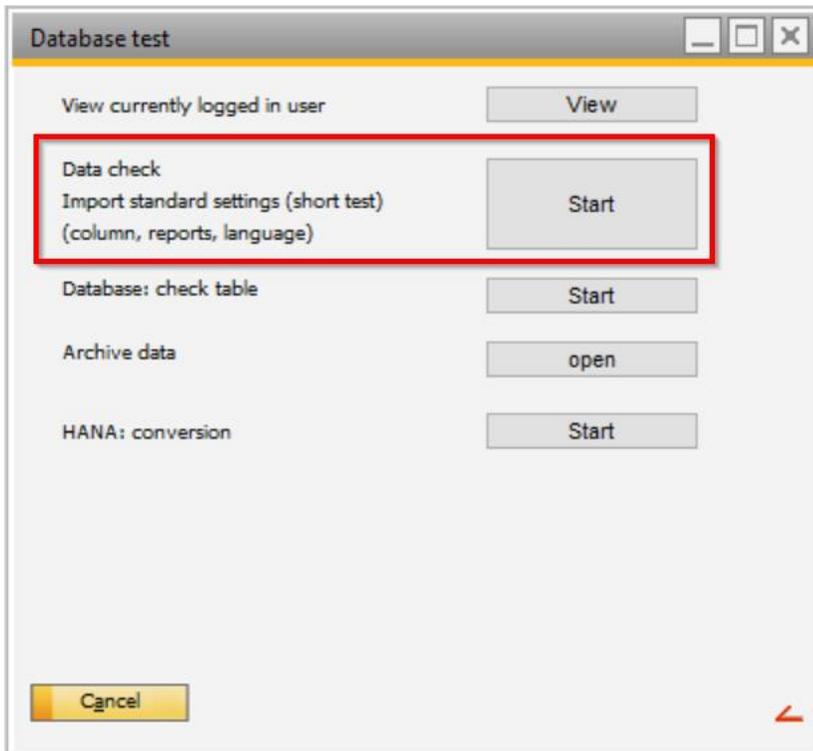
MASTER DATA SETUP: If the Data Check is executed automatically, there is a parameter to set the interval of time of execution.

PATH: Administration > System Initialization > General settings > Update Messages (Min.). A restart is needed for changes to take effect.



In case the user wants to execute it manually:

PATH: Administration > Utilities > Database Test > Start by clicking in the *Start* button from the Data check section.

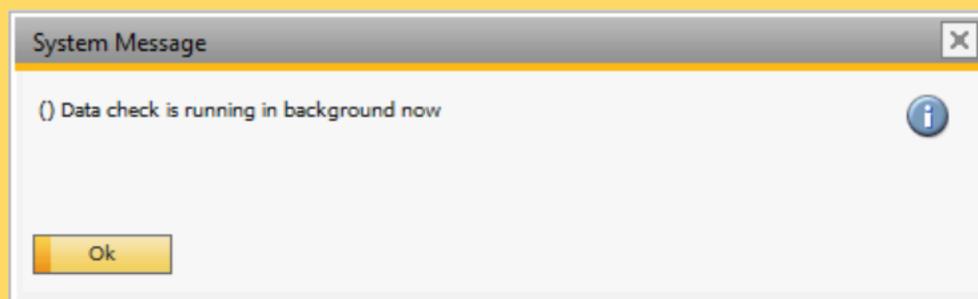


View currently logged in user: Button used to display all users who are currently logged in to beas.

IMPORTANT: This is not available in HANA version.

Start Data Check: Button used to import standard settings and check different parameters from the database. This test is performed automatically during an upgrade and can also be started manually. Furthermore, defaults as column settings, standard reports, current Terminal WEB-version are imported. User-specific settings are not affected by this.

IMPORTANT: In case the Data Check is running in the background, the system will display a message:



Start Database: Check Tables: Button used to check and import tables and fields, if necessary. This is another component of the upgrade or setup process. The system checks whether the tables and UDFs used by beas are present. Missing tables or UDFs are automatically created. beas does not work with UDTs (SAP Business One User Defined Tables), but instead creates all tables directly with the prefix "beas_".

IMPORTANT: If beas tables have been extended manually, the extension is NOT removed.

The structure of all tables is defined in the "db.ini" file. If you have created a customer-specific "db.ini" of your own and stored this in the project directory, this will also be executed during the database test.

After a SAP Business One database test (upgrade) or a change to the data structure (creation of further UDFs in SAP), the beas database test must be executed in order to also update the beas tables.

Open Archive Data: Button used to move data from productive system into archive tables or to an archive database or archive server. Thus, the continuous growth of recently used tables can be prevented. The authorization "System" is required. For more information, please refer to *System Tools: Data Check* tutorial.

IMPORTANT: The process cannot be undone. Create a backup before archiving data. There is no access to archive data within beas. It is recommended to regularly backup data, on an annual basis, to maintain access to archived data.

The user can select the target server or database where data will be stored. For this, a server, database, user, password and trusted connection is required. The procedure to archive data is the following: beas finds all documents before a selected date, then it will transfer to the target database and remove data from the source database.

The following documents can be archived:

- Work orders
- Pre-calculation
- Post-calculation
- Change log
- QC Order
- Batch calculation

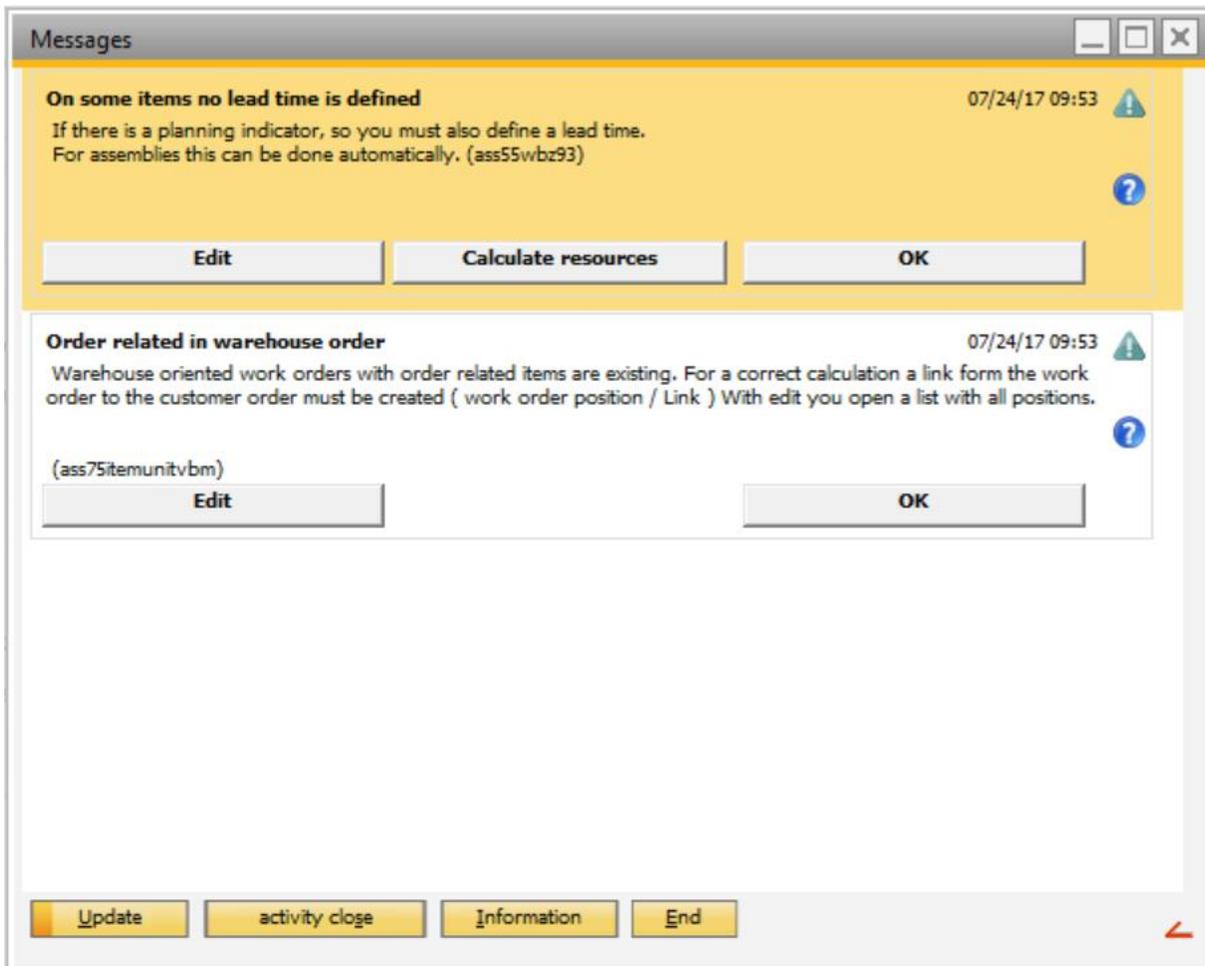
Start HANA: conversion: Button used to convert MSSQL database into HANA database. This function helps to prepare the MSSQL database to use on HANA, start this function before migration. This function deletes some indexes and constraints. In case the user starts this option by mistake, please execute *Start Database: Check Tables* button. Then, missing objects are generated. For more information, please refer to *System Tools: Data Check* tutorial.

2.2. How to analyze results from Data Check?

beas includes a messages screen which is easy to operate, similar to the activity management of SAP Business One.

Every time the data is executed, messages will be displayed. The user can access this screen at any time.

PATH: Windows > Messages, Activities



Update: Button used to refresh the message screen.

Activity Close: Button used to hide the selected messages. Multi selection is supported.

Information: Button used to display additional information from this message. Each error message can be managed directly in this screen.

Ok: Button used to hide the message but not resolve it. The message will appear each time that data check is executed again.

Edit: Button used to go directly to the screen where the problem is. beas will display the list of the master data to solve or in case of a wrong parameter, open the screen to modify the parameter.

2.3. How to fix issues from Data Check results?

Depending on the message, the user can do different procedures. These messages can be enabled to include extended information in the Configuration Wizard. For more information, please refer to [Configuration Wizard](#).

The most relevant messages are the following:

Message	Meaning
agcheck001	In several entries faulty operation types are registered. Effect: various functions are not shown because these have been deposited in operation. Measure: a) correct manually: if you click on the message in the field <i>Edit</i> , all document types are displayed, in which a faulty operation type is stored. b) create the missing operation types. c) carry out the correction using SQL.
amgmeto435	In item master (OITM) there are entries in which "mngmethod " is not filled. It may be that these items cannot be edited or posted. Click on <i>Edit</i> to perform an automatic correction.
amgmet1pers32	Links to human resource master. The beas and SBO HR master are now linked. There are some entries in which the connection is not correct. The link here may be performed automatically.
ass35afolink	Wrong BOM links. BOMs are linked to non-existent operation sequences. Click on <i>Edit</i> to display all affected assemblies. If no correction is made: the affected BOM items are not posted during back-flushing.
ass35grpok	Resources with wrong group assignment. There are several resources without, or with incorrect, resource groups. Click on <i>Edit</i> , the resource list opens where the resources can be corrected.
ass35priceok	Resources without costs. There are several resources at no cost. This leads to wrong results in calculation. Affected fields: <i>Costs, cost ratio to marginal costs and total costs</i> .
ass35resok	Resources without capacity. There are several resources without free capacity. In order recommendation this leads to infinite lead times. Affected column: planning/planned capacity or number Machines Employees
ass55item1unitstl	For several BOM items a value is missing for quantity factor. Without correction, this can lead to incorrect calculations, for example in: - Pre-calculation - Manufacturing - Order recommendation report Please correct corresponding BOM items. Edit: BOM > <i>Quantity Per</i> field Affected in the bill processing is the "ever" (the <i>Amount</i> field, after the word "each")
ass55item1unitvb	In several BOMs unknown item numbers are stored, or item numbers are missing. These entries can lead to additional errors: - No consideration in order recommendation report - No postings possible beas offers an automatic correction.

<p>ass55itemdfltwh</p>	<p>For several items the default storage is not defined. This is required for several standard functions. Action: edit item and set the standard warehouse in the <i>Inventory Data</i> Tab from the item master data.</p> <p>If the default warehouse is not defined, this will result in the following problems:</p> <ul style="list-style-type: none"> - Incorrect results in order recommendation report - WIP account determination is not possible - Manufacturing: back-flushing not possible
<p>ass55itemunitbom</p>	<p>In several item part lists, quantity units are stored, which are not stored in the database.</p> <p>Without correction, this can lead to incorrect calculations in:</p> <ul style="list-style-type: none"> - Pre-calculation - Manufacturing - Order recommendation report <p>These are the possibilities for actions:</p> <ol style="list-style-type: none"> a) Enter missing units under: Administration > Setup > Inventory management > Units of measurement b) Edit BOM > next to the field <i>Quantity</i> is the field for the unit c) Edit item master > <i>General</i> tab > yellow arrow for <i>Consumption unit</i>:enter units
<p>ass55itemunitvb</p>	<p>For several items, the warehouse unit or consumption unit is missing. Without correction, this can lead to incorrect calculations in:</p> <ul style="list-style-type: none"> - Pre-calculation - Manufacturing - Order recommendation report <p>Please make sure to input the correct units. Item master data > Tab <i>General</i>> yellow arrow for <i>Consumption Unit</i>: enter units.</p>
<p>ass55itemunitvbm</p>	<p>In item, warehouse and consumption units are defined, but no conversion formula has been created. Result:</p> <ul style="list-style-type: none"> - Incorrect calculation in order recommendation report. For this reason, the calculation is disabled - Erroneous postings <p>These are the possibilities for actions:</p> <ol style="list-style-type: none"> a) Enter missing units under: Administration > Setup > Inventory management > Units of measurement b) Edit BOM > next to the field <i>Quantity</i>, there is the field for the unit c) Edit item master > <i>General</i> tab > yellow arrow for <i>Consumption unit</i>:enter units

ass55manageonhnd	<p>Negative stocks are present in the system. As a result, planning functions will put out incorrect values. To keep data approximately correct, beas does not consider negative values in the planning functions.</p> <p>Action: correct existing negative stocks and block the negative posting facility completely.</p> <p>Setup: Administration > System initialization > Document settings > Block negative inventory by entering "Company"</p>
ass55w5del	<p>Incorrect item number. There are item numbers with incorrect/unusable characters. Under no circumstances may these characters be used: spaces (Asc 32) and apostrophes (Asc 39).</p> <p>This could lead to severe program errors.</p>
ass55w5Z93	<p>For several items a faulty material group is stored. If no material group is stored, this can lead to erroneous results in the calculation.</p> <p>Material groups are defined under: Administration > Setup > Inventory > Material group. Then assign it under Item master > Material Group.</p>
ass55waoaploo	<p>Work order - work sequence o.</p> <p>There are work orders with a work sequence containing position o. This position will not be processed correctly and should therefore be deleted.</p> <p>Click on <i>Edit</i> to open the list of all affected positions.</p>
ass55wbz93	<p>For several items no lead time is stored. If there is a scheduling ID, a lead time is also required otherwise there will be an incorrect requirement date in the order recommendation report.</p> <p>For assemblies, this can be done automatically if routings are stored. Enable: Item structure > right mouse button > third tab in right click menu > compute resources > calculate lead time.</p>
ass55wbz9d	<p>For several items of type "Purchase Part" is faulty or no scheduling ID is stored. Please check scheduling in the item master, see <i>Breakdown</i>.</p> <p>Without correction, the order recommendation report works incorrectly.</p>
ass55woabgkzft	<p>Several production items are not completed. There are unfinished work items in closed work orders. This condition can lead to problems.</p> <p>Click on <i>Edit</i> to display production list with all affected work orders. These need to be re-opened. Open work order, or select <i>Open</i> by right clicking. Then it can be closed again. The associated components are also closed and the necessary closing entries (WIP Account crediting) are performed.</p>
ass5dsbz9d	<p>Several items are defined as manufacturing parts, without having the scheduling ID. Please set the switch <i>Breakdown</i> for the affected items.</p> <p>Without correction, the order recommendation report works incorrectly.</p>
ass75itemunitvbm	<p>Order related items in storage orders.</p> <p>There are "Make to Stock" work orders, in which order-related items are stored. For a correct calculation in order recommendation report, these work orders need a reference to customer orders.</p> <p>Click on <i>Edit</i> to open the list of all affected positions.</p>

blockzeroq1dbc	<p><i>Block negative stock</i> has been disabled. When working with negative values, no MRP is possible. All planning functions in beas are blocked as a result. Action: re-activate this switch! The following features are not working correctly with negative stock enabled:</p> <ul style="list-style-type: none"> - Correct Stocktaking - Warehouse Management - Reservation Function - Batch Management - Serial Number Management - Material Requirements Planning <p>We strongly advise that you do not work with negative stocks! Setup: Administration > System initialization > Document settings > Block negative inventory by entering: "Company"</p>
calccheck303245	<p>With beas 2008-0-11-22 the connection between Offer/Customer order and the Pre-calculation has been changed. With this repair program the connection can be reestablished for existing documents. The repair should always be performed.</p>
checkdb05l044	<p>Extended error notification system enabled in the Configuration Wizard: System > Extended Error Messages: SAP activity In this case, a business partner needs to be defined in the switch below "activity business partners", because the SAP Business One activity system requires the disclosure of a business partner. If nothing is done, no activities are generated.</p>
checkdb05lacc44	<p>In a perpetual inventory system, the WIP accounts must be set up. Affected is the WIP stock account and the WIP inventory variance account. After creating accounts, set up in Configuration wizard: Production > Valuation and booking of assembly > Account Determination > Define WIP accounts > <i>Start</i> button, or press the button directly in the message. Account determination is done automatically and must be checked afterwards. If these are not specified in the production area, no postings are possible.</p>
checkdbwialacc44	<p>Faulty or nonexistent accounts have been deposited and must be corrected. In Configuration Wizard: Production > Valuation and booking of assembly > Account Determination > Define WIP accounts > <i>Start</i> button, the WIP accounts are defined. If no correction is made, no postings are possible in production.</p>
fagcheck03245	<p>External operations: the data structure has changed. Costs of external operations are now stored in a different field and existing entries have to be adjusted. beas can perform the correction automatically. If no correction is made, pre- and post-calculation cannot calculate correctly, valuation methods lead to erroneous results and to erroneous account postings.</p>
qsccheck13245	<p>Quality control order - quantity units: for a correct display of the measurement positions a unit needs to be deposited. Otherwise, no decimal places are displayed. beas has issued a correction program to fill default values.</p> <ol style="list-style-type: none"> 1. Click on edit to open the editing window. 2. Enter a valid unit of measure. 3. This will be entered for all measurement positions, which do not have stored a unit of measure.

repcheck03245	The communication module has been installed. There are standard reports available, which need to be imported once and which can be changed or adapted. It is recommended you import these reports.
srivvo40	<p>Serial numbers need to be unique. Otherwise beas will not work correctly.</p> <p>In Administration > System initialization > General settings > Stock > Unique serial numbers set to "serial numbers".</p> <p>Using other settings, serial number related items cannot be posted in beas, because serial numbers are always displayed for selection.</p> <p>With another setting, at postings, the following error could occur: 10001172 - Leere Strings sind in Zeile 1 (eindeutiges Feld) nicht zulässig [OSRN.SysNumber][line: 0]</p> <p>Measurements: Use settings as described above. If a change of settings is impossible due to existing data entries, serial numbers need to be entered.</p>
tnsfnfg04442	<p>beas adds various extensions to the procedure SBO_SP_TransactionNotification. These values are pasted starting from the text: ADD YOUR CODE HERE . If this text is not found, beas cannot enter its extensions. This can be the case if the procedure has been manipulated.</p> <p>In this case, please restore the original file or insert the placeholder at a suitable point and run the data check again.</p> <p>Omitting the data check can lead to the following problems:</p> <ul style="list-style-type: none"> - No control in warehouse management when bookings into negative stock - No control of reservations, the reservation function may work incorrectly
tnsfnfg04443	beas adds various extensions to the procedure SBO_SP_TransactionNotification. In this case, an SQL error has occurred. More information is available in the messages when you click on <i>View</i> .
tnsfnfg04444	beas adds various extensions to the procedure SBO_SP_TransactionNotification. This process has not been carried out, maybe the procedure does not exist.

3. CONFIGURATION WIZARD

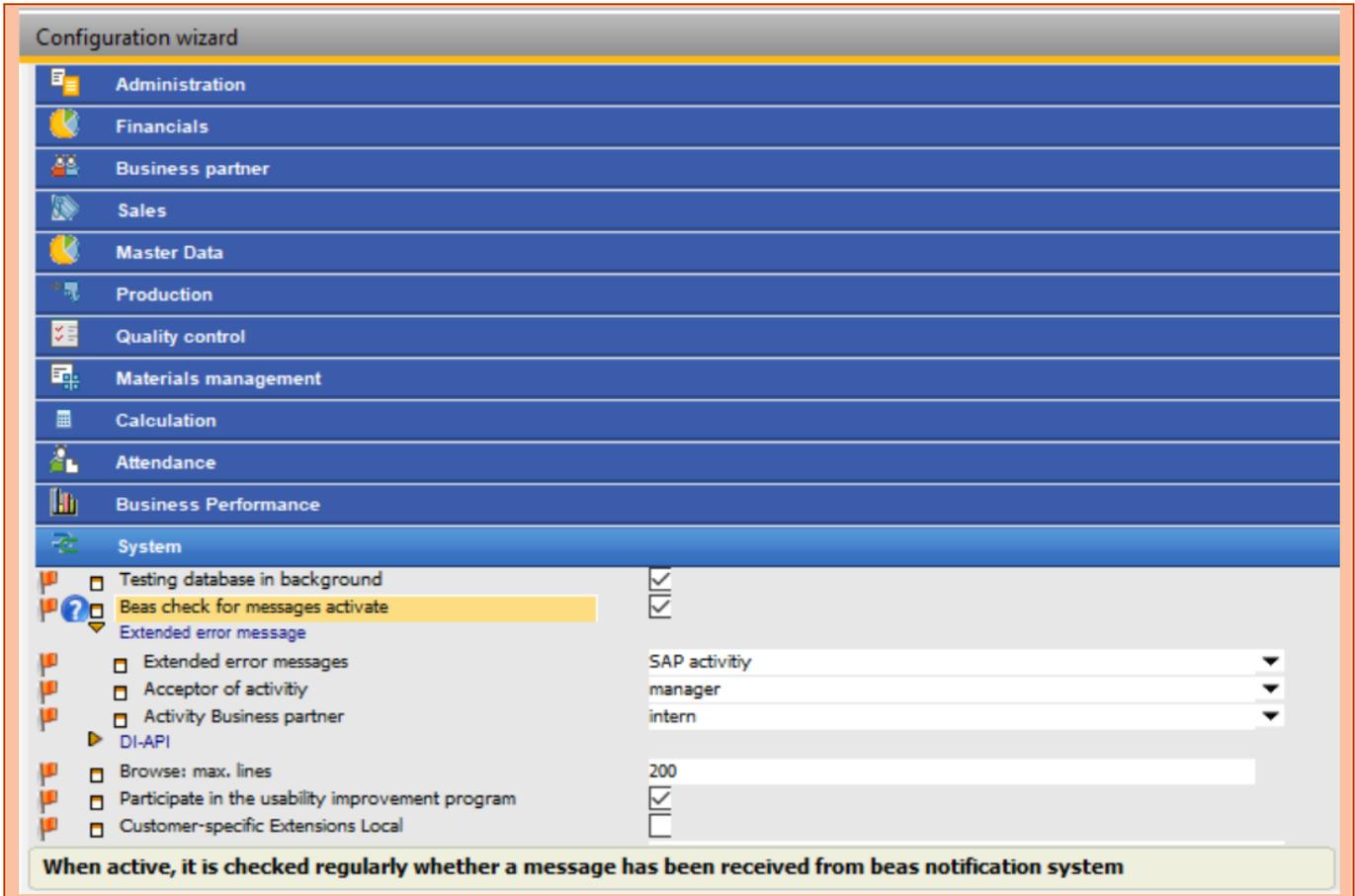
In this section, all parameters and settings from the Configuration Wizard impact fields in the *Data Check* functionality.

3.1. How to run the Data Check functionality?

beas check for message activate

Configuration Wizard: The automatic notification for data check messages to a specific user can be turned on here.

PATH: System > beas check for messages activate



3.3. How to fix issues from Data Check results?

Extended Error Messages

Configuration Wizard: Here, different parameters can be defined like: create an activity for each error message, assign a responsible to perform the activity in case there is no SAP account, or define if the business partner or company to select for the activity is internal or external.

PATH: System > Extended Error Messages

Configuration wizard

- Administration
- Financials
- Business partner
- Sales
- Master Data
- Production
- Quality control
- Materials management
- Calculation
- Attendance
- Business Performance
- System
 - Testing database in background
 - Beas check for messages activate
 - Extended error message
 - Extended error messages SAP activity
 - Acceptor of activiyy manager
 - Activity Business partner intern
 - DI-API
 - Browse: max. lines 200
 - Participate in the usability improvement program
 - Customer-specific Extensions Local