Contents

[SAP 2](#_Toc474402046)

[Notes 2](#_Toc474402047)

[Consignment Stock Check / RGA Form 2](#_Toc474402048)

[Description 2](#_Toc474402049)

[How to use it 2](#_Toc474402050)

[Notes for developers 3](#_Toc474402051)

[Code / project source 3](#_Toc474402052)

[RGA Logger 3](#_Toc474402053)

[Description 3](#_Toc474402054)

[How to use it 4](#_Toc474402055)

[RGA tab 4](#_Toc474402056)

[Overview tab 4](#_Toc474402057)

[Report tab 4](#_Toc474402058)

[Notes for developers 4](#_Toc474402059)

[Code / project source 5](#_Toc474402060)

[Biosensors Inventory Consolidator (BIC) 5](#_Toc474402061)

[Description 5](#_Toc474402062)

[How to use it 5](#_Toc474402063)

[Notes for developers 5](#_Toc474402064)

[Code / project source 5](#_Toc474402065)

[QA Disposition Form 5](#_Toc474402066)

[Description 5](#_Toc474402067)

[How to use it 5](#_Toc474402068)

[Notes for developers 6](#_Toc474402069)

[Code / project source 6](#_Toc474402070)

# SAP

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Consignement Stock Check | RGA Form | QA Disposition Form | Biosensors Inventory Consolidator | RGA Logger |
| ZSD\_SQP\_SQL\_EXPORT\_MM |  |  | X |  |  |
| EXTRACT CUSTOMERS | X | X |  |  |  |
| EXTRACT EAN | X | X | X | X |  |
| ZSDR\_SAP\_SQL\_EXPORT\_CUST\_PF | X | X |  |  | X |

|  |  |  |  |
| --- | --- | --- | --- |
|  | When | Task | table |
| ZSD\_SQP\_SQL\_EXPORT\_MM | Daily. 3a00 [SGT] | Exports a list of all the active material and vendor batch combinations. | ZMM\_SQL\_MATLICHA |
| EXTRACT CUSTOMERS | Daily. 6a00 [SGT] | Exports list of all the customers for all entities. | ZMM\_SQL\_CUS |
| EXTRACT EAN | Daily. 5a30 [SGT] | Exports the EAN code for all active products, which have an EAN code | ZMM\_SQL\_EAN |
| ZSDR\_SAP\_SQL\_EXPORT\_CUST\_PF | Daily. 0a00 [SGT] | Exports the partner function relationship between customers | ZMM\_SQL\_PF |

Current production server is MOSQ04.BESA.BSI.CORP, with database “Z\_ExcelSolutions”.

## Notes

For all of the Excel based programs, macros must be enabled.

# Consignment Stock Check / RGA Form

## Description

This application is used to perform stock counts at customer’s location as well as returns.

## How to use it

1. Install the Excel Add-in from [\\mofasa.besa.bsi.corp\Shared\Everyone\IT\BESA\SAP - Cons Stock\CSC\setup.exe](file:///\\mofasa.besa.bsi.corp\Shared\Everyone\IT\BESA\SAP%20-%20Cons%20Stock\CSC\setup.exe)
2. Open the latest Consignment Stock File (current version is 10.13.03).
3. Click on “ADD-INS” in the Ribbon, then on “Extract Data” in “SAP Extract”. Enter the customer’s 6 digit number (the same as the one in SAP).
4. The file gets populated with the relevant data.
5. Customer Service employee sends it to the sales rep using the “Save and send CS ONLY” button on the “CONSIGMENT STOCK” tab.
6. When the sales rep received the file, they fill out the “SCANNED QTY” tab with the relevant information. They then start scanning their products starting from cell B8 using their handheld scanner (Motorola CS3070). As this devices acts as a keyboard with an EN-US layout, some users might run into an issue when scanning products containing numbers and/or the letter Z, W, Y, A, Q. Therefore, when the an array which is supposed to have barcodes scanned into it is selected, a VBA code changes the user’s keyboard layout to EN-US, then switches it back to the original one as soon as that given array is left.
7. Upon completion, the user send the file back to the appropriate department using the “Save file & send mail” button the “CONSIGNMENT STOCK” tab.

Proceeding with an RGA is roughly the same thing:

1. The sales rep can use any stock check file given that it’s the most recent version
2. Go to the “SCANNED RETURNS” tab and fill it out relevantly
3. Scan the item into column B. The same principles apply as point 6 for consignment stock counts.
4. Click on “Prepare RGA”
5. Fill out the “RGA FORM” tab relevantly
6. Click on “Get RGA Number”
7. Click on “Save file & send mail”

## Notes for developers

It is composed of the following components:

* An SAP Web Service (ZMM\_CON)
* An Excel Add-in (called “*SAP CSC*”) developed in C#
* An Excel file full of VBA code

The latest versions are released into production by placing them in

\\mofasa.besa.bsi.corp\Shared\Customer Service\consignment stock management

from where the CS team will open them and use them.

Upon opening the file, it will try to ping MOSQ04.besa.bsi.corp. Should this server be available, the file will:

* Update the decode scan logic from this server
* Update the customer base

## Code / project source

\\mofasa.besa.bsi.corp\shared\IT\BESA\Peter's Projects\Cons Stock Check

# RGA Logger

## Description

The RGA Logger has two features:

* Keep track of the RGAs from between the customer’s location up to the warehouse
* Show returns’ KPIs

## How to use it

## RGA tab

When the file is opened, it loads the previous (from newest to oldest) 400 entries. All lined are blocked for editing and are only visible for viewing. In order to edit a line, the user must click on any cell within that line, then click on “Edit Row”. The status will change to “editing”, and the user can now edit all cells within that one line. As soon as the user leaves the row, all the information they have changed will be saved, and the status will change to “saved”.

“RGA Details” displays information about the line they’re currently on. Additional details include the list of all the products that are comprised with that RGA.

The “Load Data” button will allow for the user to refresh the current information. However, this is done automatically every 30 seconds.

As this display is constantly being updated, Excel’s filtering feature isn’t effective. Instead, the user may filter by clicking the “Filter” button in the top row.

The user may click on “Now displaying [……]” in order to toggle between displaying the last 400 entries or display all the entries. As records are being kept since January 2014, displaying everything will take a lot of time, especially from remote sites, such as BBV.

### Overview tab

Displays the equivalent of “RGA Details” (products, quantity, lot, etc.) for all of the RGAs listed in RGA.

### Report tab

When opening this tab, some computation is done in order to generate the report. Cells B15 to G20 display a “Loading” sign while this is going on. This sign will disappear when done.

This tab is used to display KPIs based on the timing. This way, management can keep track of various timing information. The ones currently in place are:

**Monthly count**: number of returned created per month

**Prod. Quantity per month**: number or products logged per month

**Open at CS**: Of all the returned which are still open at CS, the month when they have been created

**Open at WH**: Of all the returned which are still open at WH, the month when they have been created

**Processed at WH**: Of all the returned which were processed at WH, the month when they have been created

Note: when opening this tab, it generates the report based on what’s loaded in the “RGA” tab. In order to display a report for previous years, not just the last 400 entries, toggle the “Now displaying last 400” buttons in “RGA” then generate the report again.

## Notes for developers

* This file is only used to display information. All information is stored in the SQL server and is reloaded upon opening the file
* When opening the file, only the last 400 entries are loaded, in an effort to reduce loading time, especially at BBV. This can be changed by toggling the “display” button in row 1
* All lines are locked for editing. When clicking “edit row”, a value is set to “TRUE” in the SQL table, thus preventing any other user to edit the same row. Everytime such an operation is fired, a trigger is fired on the SQL table, which will scan for all lines having the “editing” field set to “TRUE” and looking at when was the last update on this entry. If it has been more than 30 minutes, it can be assumed that the line no longer needs to be locked and the “editing” field returns to “FALSE”. This has also been setup in order to counter some bug (it was noted in the past that when editing is done by the user, the “editing” field wouldn’t automatically bet set back to “FALSE” thus requesting the user to raise a ticket with IT – this would happen about once every three weeks).
* The list of customers to be entered is pulled from the SQL table ZMM\_SQL\_CUS

## Code / project source

\\mofasa.besa.bsi.corp\Shared\it\BESA\Peter's Projects\RGA Logger

# Biosensors Inventory Consolidator (BIC)

## Description

This program is used by the warehouse at BBV in order to proceed with the yearend stock counts. It works with the help of the Motorola CS 3070 scanners (same as for other programs performing products counts). However, other devices might be used as well.

## How to use it

The users open the BIC program from the Windows Orb. Should they not have it installed, they can find the latest version at: [\\bbvfs01.bbv.bsi.corp\Software\Biosensors\WarehouseCounter](file:///\\bbvfs01.bbv.bsi.corp\Software\Biosensors\WarehouseCounter)

## Notes for developers

## Code / project source

\\mofasa.besa.bsi.corp\shared\IT\BESA\Peter's Projects\BIC\projects\WarehouseCounter

# QA Disposition Form

## Description

This file is used by the warehouse to processes returns (RGAs) and create the disposition form for the QA department.

**Note:** this file is documented in agile (ECO-and needs to be maintained accordingly.

## How to use it

When the warehouse received a return, they need to create a QA disposition form. The user opens the Excel file and fills out all the fields in the “QA dispo Follow up” tab. When done, the user clickes on the “Start Scanning” button and scans all of the products they have received. If a given product cannot be scanned (for various reasons, such as missing/unreadable bar code, non-barcoded product, etc.) the user may click on the “Add Manual Entry” button in order to enter the product’s information. The user must select the status of each product in column “K”. There are some rules for final dispositions (based on product status, UBD, etc.) which may be manually copied over to the “Final Disposition” column (column “O”) by clicking the “Copy suggested disposition to Final disposition” button. When done, the user clicks on “Print”. The default printer set in Windows is used to print this document.

## Notes for developers

As this file is part of QA, it needs to have a certain level of error control. When the user enters a product’s reference manually, the programs checks whether this is a valid product. In order to do that, the “ZMMMR\_SAP\_SQL\_EXPORT\_MM” SAP job is running daily and exports the list of all the materials and their batches to the “Z\_ExcelSolutions” database’s “ZMM\_SQL\_MATLICHA” on server “MOSQ04.besa.bsi.corp”. If the value entered by the user isn’t recognized, the program won’t go any further.

When printing, a set of sub procedures is called, creating a specific layout, such as depicted in agile.

## Code / project source

\\mofasa.besa.bsi.corp\shared\IT\BESA\Peter's Projects\QA Disposition