MSS – Extension

Functions Kalipso → MSS

Contents

1. EXT_Article_GetDefaultUnit

Function to get the default unit of an article.

Input parameters:
inArticleCode – Code of article;
inModule – MSS module to filter units table (MSUND) (P – Pre-sale / A – Auto-sale / F – Purchases / T - All)

Output parameters:
outArticleUnit – Default unit of the article, empty if no unit found and ARTUN1 is empty;

2. EXT_Article_GetImage

Function to get the full name of the main image of an article.

Input parameters:
inArticleCode – Code of article;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled, or error occurred;
outImageFile – Full name of the file;

3. EXT_Article_GetPrice

Function to ask MSS to get the Price and Discounts of an article.

Input parameters:
inDocumentCode – Code of the document;
inCustomerCode – Customer code;
inArticleCode – Article code;
inQuantity – Quantity if there are prices and discount by quantity;
inDeliveryLocationCode – Delivery location code if price depends on this field;
inHeaderUserField1/2/3 – Header user fields if the price depends on those fields;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 Error;
outPrice – Price;
outDiscount1 – Discount 1;
outDiscount2 – Discount 2;
outDiscount3 – Discount 3;
outDiscount4 – Discount 4;
outPriceCode – Price code;
outDiscount1Code – Discount 1 code;
outDiscount2Code – Discount 2 code;
outDiscount3Code – Discount 3 code;
outDiscount4Code – Discount 4 code;
outUserField1 – User field which can be used in Get Price
outUserField2 – User field which can be used in Get Price
outUserField3 – User field which can be used in Get Price
outVATIncluded – If the price calculated has VAT included or not
outVATTax – VAT Tax applied

4. EXT_Article_GetTotals

Function to get the totals for an article given a certain quantity, price and discounts.

Input parameters:
inDocumentType – Type of the document;
inCustomerCode – Code of the customer;
inArticleCode – Code of article;
inLength – Length of the article (ARTCMP);
inWidth – Width of the article (ARTLGR);
inHeight – Height of the article (ARTALT);
inWeight – Weight of the article (ARTPES);
inTotalWeight – Total weight (ARTPES * Quantity);
inQuantity – Quantity;
inQuantityFactor – Quantity factor when using alternative units;
inPrice – Price;
inDiscount1 – Discount 1;
inDiscount2 – Discount 2;
inDiscount3 – Discount 3;
inDiscount4 – Discount 4;
inLineType – Line type (N – Normal / B – Bonus / O – Offer / D - Returns);
inGlobalDiscount – Global commercial discount of the document;
inPPDiscount – Global PP discount of the document;

Output parameters:
outTotalDiscounts – Total value of the discounts applied;
outTotalWithoutVAT – Total without VAT tax;
outTotalAdditionalTaxes – Total of additional taxes;
outTotalVAT – VAT total value;
outTotalWithoutDiscounts – Total without discounts;
outVATTax – VAT tax used in VAT canculation;

Note: Line total = outTotalWithoutVAT + outTotalVAT.

5. EXT_Article_Record

Function to ask MSS to open the article record screen.

Input parameters:
inArticleCode – Article code to show;

Output parameters:
outResultCode – Return code: 0 – Done;

6. EXT_Article_Select

Function to ask MSS to open the article selection screen.

Input parameters:
inFilterArticlesWithoutStock – To hide articles without stock from the list;
inFilterCatalogArticles – To show only articles flagged as article from catalog;
inFilterServiceArticles – To hide articles of type service from the list;
inFilterCompetitorCode – To show only articles related to a certain competitor code

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection;
outSelectedArticle – When outResultCode = 0 gets the code of the selected article;
outSelectedArticleDescription – When outResultCode = 0 gets the description of the selected article;

7. EXT_Article_ValidatePriceAndDiscounts

Function to validate if inputted price and discount are valid using MSS rules.

Input parameters:
inDocumentType – Type of the document;
inCustomerCode – Code of the customer;
inArticleCode – Code of article;
inCurrentPrice – Price;
inCurrentDiscount1 – Discount 1;
inCurrentDiscount2 – Discount 2;
inCurrentDiscount3 – Discount 3;
inCurrentDiscount4 – Discount 4;
inOriginalPrice – Price;
inOriginalDiscount1 – Discount 1;
inOriginalDiscount2 – Discount 2;
inOriginalDiscount3 – Discount 3;
inOriginalDiscount4 – Discount 4;
inLineType – Line type (N – Normal / B – Bonus / O – Offer / D - Returns);

Output parameters:
outResultCode – Return code:
1: OK
0: Error
-1 Error in field price
-2 Error in field discount 1
-3 Error in field discount 2
-4 Error in field discount 3
-5 Error in field discount 4

Note: The error message is shown inside the process, the different returns codes serve to, for example, set the focus in the correct field.

8. EXT_Customer_Record

Function to ask MSS to open MSS customer record screen.

Input parameters:
inCustomerCode – Customer code to show;

Output parameters:
outResultCode – Return code: 0 – Done;

9. EXT_Customer_Select

Function to ask MSS to open the customer selection screen.

Input parameters:
inRouteCode – Code of the selected route to filter when Customer from route is active;
inSubRouteCode – Code of the selected sub route to filter when Customer from route is active;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection;
outSelectedCustomer – When outResultCode = 0 gets the code of the selected customer;
outSelectedCustomerName – When outResultCode = 0 gets the name of the selected customer;

10. EXT_Deposit_Cancel

Function to ask MSS to cancel a bank deposit.

Input parameters:
inDepositExercise – Exercise of the deposit;
inDepositSeries – Series of the deposit;
inDepositNumber – Number of the deposit;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;

11. EXT_Deposits_OpenModule

Function to ask MSS to open the Deposits screen.

Input parameters:
n/a

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;

12. EXT_Document_Cancel

Function to ask MSS to cancel a document.

Input parameters:
inDocumentExercise – Exercise of the document;
inDocumentType – Type of the document;
inDocumentSeries – Series of the document;
inDocumentNumber – Number of the document;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;

13. EXT_Document_AddLine

Function to add a new line to MSS document.

Input parameters:
inLineType – Type of the line;
inArticleCode – Article code;
inQuantity – Quantity;
inUnit – Unit (empty to MSS calculate default unit);
inPrice – Price (zero do MSS calculate default price and discounts);
inDiscount1 – Discount 1;
inDiscount2 – Discount 2;
inDiscount3 – Discount 3;
inDiscount4 – Discount 4;
inPriceCode – Price code;
inDiscount1Code – Discount 1 code;
inDiscount2Code – Discount 2 code;
inDiscount3Code – Discount 3 code;
inDiscount4Code – Discount 4 code;
inUnitWeight – Unit weight – DCPPES;
inTotalWeight – Total weight (must be already calculated) – DCLPET;

inLength – Length – DCLCMP;
inHeight – Height – DCLALT;
inWidth – Width – DCLLGR;
inObservations – Observations;
inReturnTypeCode – Code to identify the type of return (used when inLineType = D);
inIgnoreLots_SerialNumbers – Ignore Lots or Serial Numbers (1 – MSS will not launch lots or serial numbers selection);
inIgnoreComponents – Ignore Components (1 – MSS will not add components lines automatically);
inIgnoreBonusQuantities – Ignore Bonus quantities (1 – MSS will not add bonus lines automatically);

Output parameters:
outResultCode – Return code: 0 – Done / < 0 Error occurred;
outLineNumber – Number of the line added;

14.   EXT_Document_DeleteLine

Function to Delete a document line.

Input parameters:
inDocumentLine – Line to be deleted;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 Error occurred;

15.   EXT_Document_EditLine

Function to Edit a document line.

Input parameters:
inDocumentLine – Line to be edited;
inNewQuantity – New quantity of the line (zero to open normal MSS quantity screen);
inNewUnit – If inNewQuantity > 0 and not empty will change line to this unit;
inIgnoreLots_SerialNumbers – Ignore Lots or Serial Numbers (1 – MSS will not launch lots or serial numbers selection);
inIgnoreComponents – Ignore Components (1 – MSS will not add components lines automatically);
inIgnoreBonusQuantities – Ignore Bonus quantities (1 – MSS will not add bonus lines automatically);

Output parameters:
outResultCode – Return code: 0 – Done / < 0 Error occurred;

16.   EXT_Document_Finalize

Function to ask MSS to create a new document based on a temporary one applying all the rules related to it.
Note: The temporary document is not deleted after the creation of the new document;

Input parameters:
inDocumentExercise – Exercise of the temporary document;
inDocumentType – Type of the temporary document;
inDocumentSeries – Series of the temporary document;
inDocumentNumber – Number of the temporary document;
inTargetDocumentType – Type of the new document;
inReloadCustomerData – To ask MSS to load all the customer information, the temporary document must have the customer code with a correct customer code;
inReloadPricesAndDiscounts – To ask MSS to reload Price and Discounts of the articles from all the lines;
inSaveAutomatically – To save the document automatically, if False will show the MSS screen;
inPrint – To print the document, only applied when inSaveAutomatically = TRUE;

Output parameters:

outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;
outDocumentExercise – Exercise of the new document;
outDocumentType – Type of the new document;
outDocumentSeries – Series of the new document;
outDocumentNumber – Number of the document;

17. EXT_Document_Recalculate

Function to recalculate the entire document (this process runs over the temporary MSS tables DCC_Temp, DCL_Temp).

Input parameters:
inDocumentExercise – Exercise of the document;
inDocumentType – Type of the document;
inDocumentSeries – Series of the document;
inDocumentNumber – Number of the document;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;

18. EXT_Documents_OpenModule

Function to ask MSS to open the Documents screen.

Input parameters:
inCustomerCode – Customer code to select automatically;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;

19. EXT_GMAPS_LoadMap

Function to ask MSS to open the Documents screen.

Input parameters:
inMyLocation_Latitude – Current position Latitude;
inMyLocation_Longitude – Current position Longitude;
inShowPoint – Show specific point: 1 – Yes / 0 – No;
inPoint_Latitude – Specific point Latitude;
inPoint_Longitude – Specific point Longitude;
inCanChangePointLocation – If user can change specific point location by clicking on map: 1 – Yes / 0 – No;
inZoom – Zoom value (when showing multiple points, the zoom is calculated to show all points);
inPointsList_Latitude – Latitude of multiple points (values separated by ASCII 7);
inPointsList_Longitude – Longitude of multiple points (values separated by ASCII 7);
inPointsList_Title – Titles of multiple points (values separated by ASCII 7);
inPointsList_Icon – Icons of multiple points (values separated by ASCII 7);
inPointsShowLabels – Show labels with titles of each point: 1 – Yes / 0 – No;
inPointsList_GooglePlacesID – Google places ID of multiple points (values separated by ASCII 7 - Optional);

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;
outMapFileName – Full path of the file to load in the HTML Viewer;

Note: Google maps api key is required and is loaded directly in the function.

20. EXT_GPS_Connect

Function to active the GPS device to get coordinates.

Input parameters:
n/a

Output parameters:
outResultCode – Return code: 1 – Gps is active / 0 – GPS activation failed;
outErrorMessage – Error message if any error occurred in the activation;

21. EXT_GPS_GetAddressFromLatLong

Function to get the full address based on a longitude and latitude.
Note: Uses Google Maps Places API which needs a user Key. Check MSS documentation on Google Maps Places API or contact support department.

Input parameters:
inLongitude – Longitude of the place;
inLatitude – Latitude of the place;
inKey – Google Maps Places API key;

Output parameters:
outAdministrative_Area_Level – in Portuguese addresses refers to the district of the place;
outRoute_Street_Number – Address of the place;
outLocality_Administrative_Area – City of the place;
outPostal_Code – Postal code of the place;
outCountry – Country code of the place;
outCountry_Description – Country description of the place;

22. EXT_GPS_GetCoordinates

Function to get the coordinates of the current location.

Input parameters:
inTimeout – Timeout in seconds to wait for the coordinates;

Output parameters:
outResultCode – Return code: 1 – Coordinates obtained / 0 – Error getting coordinates;
outErrorMessage – Error message if any error occurred getting the coordinates;
outLongitude – Longitude of the current place;
outLatitude – Latitude of the current place;
outAltitude – Altitude of the current place;

23. EXT_GPS_GetCoordinatesFromAddress

Function to get the coordinates of a place based on its full address.
Note: Uses Google Maps Places API which needs a user Key. Check MSS documentation on Google Maps Places API or contact support department.

Input parameters:
inAddress – Full address of the place;
inKey – Google Maps Places API key;

Output parameters:
outFormated_Address – Full address formatted;
outLatitude – Latitude of the place;
outLongitude – Longitude of the place;
outTypes – Type of place (restaurant, bank, … check google maps places api documentation to full list of types);
outPlace_ID – Place ID of the place(internal ID of the place from google places api, is used the get additional information);

24. EXT_Lots_OpenSeletion

Function to ask MSS to open the Lots selection screen. The lots selected will be saved in DCT_Temp table with the number of line passed to the function

Input parameters:
inModule – Module from which the function is called: 0 – Documents / 1 – Services / 2 - Deliveries;
inMode – List lots or serial numbers: 1 – Lots / 2 – Serial numbers;
inOperation – Which operation is being done: 1 – New record / 2 – Modifying / 3 – Consulting;
inArticleCode – Article code;
inArticleDescription – Article description;
inDocumentType – Document type of the current document;
inDocumentLine – Number of the line of the document;
inQuantity – Quantity selected of the article;
inLineType – Type of line (DCLTPL);
inDeliveryOriginDocumentExercise – Exercise of the delivery document (only used when inModule = 2);
inDeliveryOriginDocumentSerie – Serie of the delivery document (only used when inModule = 2);
inDeliveryOriginDocumentNumber – Number of the delivery document (only used when inModule = 2);
inDeliveryDestinyDocumentType – Document to be generated with the delivery information (only used when inModule = 2);
inServicesExercise – Exercise of the service (only used when inModule = 1);
inServicesSerie – Serie of the service (only used when inModule = 1);
inServicesNumber – Number of the service (only used when inModule = 1);
inServicesEquipmentLine – Line of the equipment of the service (only used when inModule = 1);

Output parameters:
N/a

25. EXT_MSS_GetCurrentVersion

Function to ask MSS to return MSS Current Version information.

Input parameters:
n/a

Output parameters:
outMSSVersion – Version of MSS installed (for example **5.0.0 2019-05-07 (S)** → S – Smartphone / T – Tablet / P – PDA);

26. EXT_Numerators_GetNextNumber

Function to ask MSS to return the next number available for a document type.

Input parameters:
inDocumentType – Type of document;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;
outDocumentExercise – Exercise to assign the new document;
outDocumentSeries – Series of the new document;
outDocumentNumber – Next number available;

27. EXT_Numerators_SetNewNumber

Function to ask MSS to return the next number available for a document type.

Input parameters:
inDocumentType – Type of document;
inNewNumber – New numerator of the document;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;

28. EXT_Orders_OpenModule

Function to ask MSS to open the Orders screen to create a new order.

Input parameters:
inDocumentType – Type of document to select automatically;
inCustomerCode – Customer code to select automatically;
inSaveAndClose – Close the windows after save;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;
outDocumentExercise – Exercise of the new document;
outDocumentType – Type of the new document;
outDocumentSeries – Series of the new document;
outDocumentNumber – Number of the document;

Note: If inSaveAndClose <> 1 the value of outResultcode will be always 0 and Exercise, Type, Series and Number will be empty.

29.   EXT_Print_Document

Function to ask MSS to print a document.

Input parameters:
inDocumentExercise – Exercise of the document;
inDocumentType – Type of the document;
inDocumentSeries – Series of the document;
inDocumentNumber – Number of the document;
inPrintPDF – To create only a PDF file (the document rules are applied);
inPrintSecondLayout – To print the secondary layout if the document is configured to do it;
inDontOpenPDF – When printing to PDF, MSS automatically asks if the user wants to open it;
inParameter1 – User parameter 1
inParameter2 – User parameter 2
inParameter3 – User parameter 3
inParameter4 – User parameter 4
inParameter5 – User parameter 5

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;

30.   EXT_Print_Report

Function to ask MSS to print a report.

Input parameters:
inReportFileName – Name of the report file to print;
inParameter1 – User parameter 1
inParameter2 – User parameter 2
inParameter3 – User parameter 3
inParameter4 – User parameter 4
inParameter5 – User parameter 5

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;

31.   EXT_Prospect_Record

Function to ask MSS to open MSS prospect record screen.

Input parameters:
inProspectCode – Prospect code to show;

Output parameters:
outResultCode – Return code: 0 – Done;

32. EXT_Prospect_Select

Function to ask MSS to open the prospect selection screen.

Input parameters:
inRouteCode – Code of the selected route to filter when Prospect from route is active;
inSubRouteCode – Code of the selected sub route to filter when Prospect from route is active;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection;
outSelectedProspect – When outResultCode = 0 gets the code of the selected prospect;
outSelectedProspectName – When outResultCode = 0 gets the name of the selected prospect;

33. EXT_Receipts_Cancel

Function to ask MSS to cancel a receipt.

Input parameters:
inDocumentExercise – Exercise of the receipt;
inDocumentType – Type of the receipt;
inDocumentSeries – Series of the receipt;
inDocumentNumber – Number of the receipt;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;

34. EXT_Receipts_OpenModule

Function to ask MSS to open the Receipts screen to create a new receipt.

Input parameters:
inDocumentType – Type of receipt to select automatically;
inCustomerCode – Customer code to select automatically;
inSaveAndClose – Close the windows after save;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;
outDocumentExercise – Exercise of the new receipt;
outDocumentType – Type of the new receipt;
outDocumentSeries – Series of the new receipt;
outDocumentNumber – Number of the receipt;

Note: If inSaveAndClose <> 1 the value of outResultcode will be always 0 and Exercise, Type, Series and Number will be empty.

35. EXT_Resources_OpenWindow

Function to open MSS resources window.

Input parameters:
inTitle – Main title of the window;
inSubTitle – Sub title of the window (only used on Smartphone, small label below main title);
inImagesList – List of Image files separated by ";";
inResourcesList – List of additional resources separated by ";";

Output parameters:
n/a

36. EXT_Sales_OpenModule

Function to ask MSS to open the Sales screen to create a new sale.

Input parameters:
inDocumentType – Type of document to select automatically;
inCustomerCode – Customer code to select automatically;
inSaveAndClose – Close the windows after save;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;
outDocumentExercise – Exercise of the new document;
outDocumentType – Type of the new document;
outDocumentSeries – Series of the new document;
outDocumentNumber – Number of the document;

Note: If inSaveAndClose <> 1 the value of outResultcode will be always 0 and Exercise, Type, Series and Number will be empty.

37. EXT_Service_Cancel

Function to ask MSS to cancel a service.

Input parameters:
inServiceExercise – Exercise of the service;
inServiceSeries – Series of the service;
inServiceNumber – Number of the service;

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled selection or error occurred;

38. EXT_Synchronize_OpenModule

Function to open MSS synchronization window.

Input parameters:
inDefaultProfile – Profile to be select when window opens;
inStartAutomaticaly – To execute automatically the synchronization process;

Output parameters:
n/a

39. EXT_TransportDocument_OpenModule

Function to ask MSS to open transport document module.

Input parameters:
n/a

Output parameters:
outResultCode – Return code: 0 – Done / < 0 User canceled, or error occurred;

40. EXT_User_GetCurrentUserInfo

Function to get the current user name, type and salesman code.

Input parameters:
n/a

Output parameters:
outLoginUser – Username of the current user;
outLoginName – Name of the current user;
outLoginType – Type of the user: U – User / A – Administrator (USRTIT);
outLoginSalesmanCode – Salesman code of the current user;

41. EXT_EndOfDay_OpenModule

Function to execute the End of Day procedure from MSS.

Input parameters:
n/a

Output parameters:
n/a