System Settings mySAP CRM Interfacing

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Version Control

Version	Date	Description and Author	
0.1	01-09-05	 Initial version - Gert-Jan Stolmeijer 	
0.2	31-09-05	IDOC Change	
0.3	15-02-05	User exit added and status Interface	

Distribution

Name	Organisation	V 0.1	V 1.0	



1 Table of Contents

1	Table of Contents
2	Introduction
3	Process description
4	Customizing settings
4.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.1.6 4.2 4.2.1 4.2.2 4.2.3 4.2.3 4.2.4	Customizing IDOC Outbound Interface6Setup RFC destination.6Setup Logical System7Setup Receiver Port8Setup Partner Profile8Setup Site.10Assign site and BDOC to Interface10Customizing Filters for Outbound Orders.11Setup Publication.13Setup Subscriptions.14Assign Subscriptions to Sites16
5	Customizing Status Interface
5.1.1 5.1.2	Maintain structure relation18Maintain field mapping and conversion rules195.1.2.1Business transaction level195.1.2.2Business Item Level205.1.2.3Item status level21
6	Adjusting the IDoc to your needs
6.1 6.2 6.3 6.4 A.	Replicating segments.21Settings for the business transaction item segment24Settings for the status segment24Order status change initiated by the KIB26Appendix A: External Interface Settings28
B.	Appendix B: Note 502037
A.	Appendix C: BADI Implementation



2 Introduction

This document describes the sales order interfacing from and to SAP CRM. What is described is the replication of sales orders between respectively CRM and R/3 and CRM and KIB (Tibco). Also, the replication of sales order statuses back to CRM is described.



3 Process description

Interfacing will be used for replicating the SAP CRM Sales orders to Non-SAP system and for replicating the order status from Non-sap systems to SAP CRM. Other interfaces are not part of the scope.





4 Customizing settings

he XIF adapter can be customized for outbound and inbound interfacing. The output or input type can be IDOC or XML.



4.1 Customizing IDOC Outbound Interface

Following customizing is needed to setup the outbound interfacing using IDOC's.

4.1.1 Setup RFC destination

CRM	Define RFC Destination		
Transaction code	SM59		
SAP Menu	Customizing \rightarrow CRM \rightarrow CRM Middleware and Related		
	Components \rightarrow Communication Setup \rightarrow Define RFC		
	Destinations		



st connection Unicode Test IFC destination KIB · CRM Connection type T TCP/IP connection escription verneland Integration Bus for CRM system echnical settings Logon/Security Special Options echnical settings Logon/Security Special Options echnical settings C Start on Application Server C Start on Application Server C Start on Explicit Host C Start on Front End Work Station Registered Server Program Program ID kib_crm_ct1_test Delete Gateway Options	and a survey of the second states of the second sta			
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Start on Application Server Registered Server Program Start on Explicit Host Start on Front End Work Station Registered Server Program Program ID kib_crm_ct1_test Sateway Options Gateway host Delete	Activation Type —			
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Program ID kib_crm_ct1_test	Start on Front L	nd Work Station		
Gateway Options Gateway host Gateway service	Registered Serve	nd Work Station		
Gateway Options Gateway host Gateway service	Registered Server	nd Work Station Program kib_crm_ct1_test		
Gateway Options Gateway host Delete Gateway service	Program ID	nd Work Station Program kib_crm_ct1_test		
Gateway host Delete Gateway service	Program ID	nd Work Station		
Gateway service	Gateway Options	nd Work Station Program kib_crm_ct1_test		
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	Gateway Options Gateway service	Ind Work Station Program kib_crm_ct1_test	Delete	
tributes	Registered Serv Program ID Gateway Options Gateway host Gateway service	Ind Work Station Program kib_crm_ct1_test	Delete	
tributes Created by KA_LSSN 10.08.2005	Gateway Options Gateway service	M Work Station Program kib_crm_ct1_test KA_LSSN 10.08		

4.1.2 Setup Logical System

CRM	Define Logical System		
Transaction code	SPRO		
SAP Menu	Customizing \rightarrow CRM \rightarrow CRM Middleware and Related		
	Components \rightarrow Communication Setup \rightarrow Setup Logical		
	Systems \rightarrow Define Logical System		



Log.System	Name
K1_AD1_099	Kverneland R/3 DEV AD1 client 099
K1_AS1_099	R3 Sandbox system 099
K1_AT1_099	Kverneland R/3 QA AT1 client 099
K1_CD1_099	Kverneland Develop 099 CRM
K1_CP1_099	Kverneland Production 099 CRM
K1_CT1_099	Kverneland Test/QA 099 CRM
K1_CT1_200	Kverneland Sandbox 200 CRM
K1_SD1_099	Kverneland SCM DEV SD1 client 099
K1_SOL_099	Solution manager
K1_SP1_099	Kverneland SCM PRD SP1 client 099
K1_SS1_099	Standalone SCM client 099
K1_ST1_099	Kverneland SCM QA ST1 client 099
KIB_CT1	KIB - CT1
KVA_ZLSALE	Kverneland R/3 PRD AP1 client 099

4.1.3 Setup Receiver Port

CRM	Define receiver port
Transaction code	WE21
SAP Menu	

Ports	Description	Port	KIB CT1
Ports P	Central user administration Kverneland Integration Bus CT1	Version Version Doc rec.types SAP F Doc record types SA RFC destination	Kverneland Integration Bus CT1 Release 3.0/3.1 P Release 4.x

4.1.4 Setup Partner Profile

CRM	Define partner profile
Transaction code	WE20
SAP Menu	



Partner	Description				D. 074			
🖃 🗀 Partner Profiles		Parti	ner no.		B-CII			
🖳 🗀 Partner Type GP	Business Partner	Parti	n. I ype	JLS Lo	igical system			
Partner Type KU	Customer	—		1				
Partner Type LI	Vendor	Po:	st processing: pe	rmitted agent Classific	ation Telephony	·		
Partner Type LS	Logical system Kverneland Sandboy 200 CBM							
K1_C11_200	Solution manager	Τι	/P	US	🐏 User			
KIB_CT1	KIB - CT1	Ag	jent	KA_LSSN	Lars Steinar Snekk	kevik		
🛄 Partner Type US	User (first 10 characters, no check)	La	ng.	EN	English			
		Out	nound narmtrs					
			Parto funct	Massaga tupa	Message variant	MassageEunction	Test	
			T ditt.tunce		message valiant	messager unction	TEST	H
				CHMAIL OHDEN_JAVY	<u> </u>			
			🗎 🛃 📑					
		Inbo	und parmtrs.					
			Partn.funct.	Message type	Message variant	MessageFunction	Test	1
							Г	
					1		Г	
					1		Г	
							Г	-
			•				•	·
		20						

Partner no. R Partn. Type L Partn. funct.	KIB_CT1 KIB - CT1 S Logical system	
출 Message Type 🖸	RMXIF_ORDER_SAVE_M	Generated Interface Module for Interface Type:CR
Message code		
Message function	Test	
Outbound Options Post Processi	ng: Permitted Agent Telephony EDI Standard	1
Receiver port <u>R</u> eceiver port <u>R</u> eceiver port <u>Receiver</u> 1	Transactional RFC	Kverneland Integration Bus CT1
Output Mode		Output Mode 2
Basic type	CRMXIF_ORDER_SAVE_M01	IDoc Structure for Data Type CRMXIF_BL
Extension		
View		
Seg. release in IDoc type		



IDOC Type has been changed to CRMXIF_ORDER_SAVE_M02 !

4.1.5 Setup Site

CRM	Administration Console
Transaction code	SMOEAC
SAP Menu	

Select Object Type 'Site' and press 'New' button to create a site for External Interface for IDOC's.

Object Site	Object Information: Site Name EXT_INT IDDC Description External Interface for IDDCs
Object Name Rev Ave	Type External Interface for IDULs Site Attributes
1	
3 Objects	Last Changed by CO_SBO
🖃 🖳 Sites	Last Changed on 17.08.2005 At 13:31:22
🗄 — 🧰 CRM	
🗄 🗀 External Interface for IDOCs	Dependent Information
EXT_INT IDOC	
B R/3	Subscriptions Scheduling Employees Organizations Queues
	Clin TF → Subscription Name / Name of Subscription Generator From Date To Date Original Site

Select button for 'Site attributes' and assign EDI Partner.

📜 Maintenance of Site Attribute	s for Site Type Id XIF_IDOC
EDI partner number	KIB_CT1
EDI partner type	LS
✓ ×	

4.1.6 Assign site and BDOC to Interface

CRM	Assign site and BDOC type to Interface Type
Transaction code	CRMXIF_C1
SAP Menu	



This customizing will assign the defined site to a BDOC type and Interface. Using the complete checkbox.

Assign Site and BDoc Type to Interface Type					
Site Name	Site Type	BDoc Type	Interface Name	Complete	Return
EXT_INT IDOC	XIF_IDOC _	BUS_TRANS_MSG	*MXIF_ORDER_SAVE		

4.2 Customizing Filters for Outbound Orders

The standard CRM system does not allow filtering on Sales Transactions (BDOC Type BUS_TRANS_MSG). This standard behaviour can be changed by setting up a new replication object following note 502037.

Before creating a new replication object for BDOC BUS_TRANS_MSG check following:

- No sales documents should be created
- Delete the subscription of publication 'All Business Transactions (MESG) in all clients of the system !!! This is client dependent.
- Delete the publication 'All Business Transactions (MESG)'. This is client independent.
- Delete the replication object 'BUS_TRANSACTION_MESSAGE'. This is client independent.

4.2.1 Setup Replication Object

CRM	Administration Console
Transaction code	SMOEAC
SAP Menu	

Select Object Type 'Replication Object'



📜 Administration Console: Replication Object	Wizard	×
 Start Available Business Documents Criteria Fields Parent Replication Objetcs Complete 	Select a BDoc type from the displayed list, enter a unique three-digit short ID for the replication object and select the replication object, where: Simple intelligent (msg) means a replication object for which you can specify potential distribution criteria, but for which no look-up table is maintained and no automatic realignment takes place. Simple bulk (msg) means a replication object for which distribution at object level is neither required nor practical, since such replication objects are distributed entirely to all sites that have subscribed to the corresponding publication. No look- up table is maintained and no automatic realignment takes place for such BDoc Type BUS_TRANS_MSG ShortID ZBM Used ShortIDs © Simple Intelligent (msg)	
	🔓 Back 🛃 Continue 🗶 Cancel	

🖡 Administration Console: Replication Object Wizard 🗙 🔀			
 Start Available Business Documents Criteria Fields Complete 	For intelligent and simple intelligent replica criteria fields for data distribution. To do so, se operators. <i>Note:</i> For intelligent replication objects, you ca you want the field to be a target field for an inte Choose <i>Continue</i> to proceed to the next scree previous screen and review your entries, choos Object Wizard without creating a new replication	tion objects, determine the potential lect the required criteria fields and in select the operator <i>Interlinkage</i> if rrlinkage. n, choose <i>Back</i> to return to the e <i>Cancel</i> to leave the Replication on object.	
	Segments Fields BUS_TRANS_MSG_HEADE PROCESS_TYPE BUS_TRANS_MSG_HEADE QUEUE_NAME BUS_TRANS_MSG_ORGM(DISTRICT BUS_TRANS_MSG_ORGM(DIS_CHANNEL BUS_TRANS_MSG_ORGM(DIS_CHANNEL BUS_TRANS_MSG_ORGM(DIS_CHANNELSEL BUS_TRANS_MSG_ORGM(DIS_CHANNELSEL BUS_TRANS_MSG_ORGM(DIS_CHANNELSEL BUS_TRANS_MSG_ORGM(DIS_SALES_SE BUS_TRANS_MSG_ORGM(ORGUNIT_SALES_SE BUS_TRANS_MSG_ORGM(ORGUNIT_SERVICE_S) BUS_TRANS_MSG_ORGM(REF_HANDLE	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
	🖨 Back 🛃	Continue X Cancel	

Select Process_Type and Sales_Org as possible selection fields.



4.2.2 Setup Publication

CRM	Administration Console
Transaction code	SMOEAC
SAP Menu	

Select Object Type 'Publication'

隯 Administration Console: Publication Wizar	ď		×
 Start ∆ Name Criteria Fields Complete 	Enter the name and type of your put objects depending on the publication Bulk means you assign one or more type <i>bulk</i> are displayed that are not Intelligent means you assign one in distribution table. All intelligent replic Simple Intelligent (sync) means y object. Only simple intelligent replice	lication and select one or more re type, where type: e replication objects. All replicatio yet used in another publication. ntelligent replication object with it cation objects are displayed. ou assign one simple intelligent n ation objects are displayed that a	eplication
	Publication Name	Business Transactions by Type/Sales (Drganization
	 Bulk Intelligent Simple Intelligent (sync) Simple Intelligent (msg) Simple Bulk (msg) 	Replication Object BEABILLDOCFBCB BUS_TRANS_ITM BUS_TRANS_MSG CMDOC_NOTIFY CRM_CPRJ_MBDOC GWA_GWOMSTRCAT GWA_GWO_SELRET	ObjectID II BEB A BIT I ZBM I CNO I CPJ I GGM I GGS V
	🙆 Back	Continue 🗙	Cancel



隯 Administration Console: Publication Wizar	d X
 Start Name Criteria Fields Complete 	For intelligent and simple intelligent publications, determine the <i>criteria fields</i> for data distribution here. To do so, select the criteria fields from the table on the left and move them into the table on the right by using the correspondig arrow button. Use the opposite arrow button to cancel assignments already made. Choose <i>Continue</i> to proceed to the next screen, choose <i>Back</i> to return to the previous screen and review your entries, choose <i>Cancel</i> to leave the Publication Wizard without creating a new publication.
	Segmentname Fieldname Op Cri I BUS_TRANS PROCESS_T EQ I BUS_TRANS SALES_ORG EQ I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I
	🔓 Back 🛃 Continue 🔀 Cancel

4.2.3 Setup Subscriptions

CRM	Administration Console
Transaction code	SMOEAC
SAP Menu	

Select Object Type 'Subscription'. For every Order Type and Sales Organization combination a subscription should be defined.



 Enter the name of your subscription and select the publication to which you want to subscribe. You can also mark the <i>Template</i> check box if you want to create templates for the generation of subscriptions outside the Administration Console. Choose <i>Continue</i> to proceed to the next screen, choose <i>Back</i> to return to the previous screen and review your entries, choose <i>Cancel</i> to leave the Subscription Wizard without creating a new subscription. Subscription Business Transactions by ZIS/3311 Publication Business Transactions by Type/Sales Organization 	🞏 Administration Console: Subscription Wiz	ard	×
	 Start Name Criteria Values Assign Sites Complete 	Enter the name of your subscription and select the publication to which you want to subscribe. You can also mark the <i>Template</i> check box if you want to create templates for the generation of subscriptions outside the Administration Console. Choose <i>Continue</i> to proceed to the next screen, choose <i>Back</i> to return to the previous screen and review your entries, choose <i>Cancel</i> to leave the Subscription Wizard without creating a new subscription.	
A Prote A Continue A Crossed		6 Park Di Cavinus I W Caved	1

Real Administration Console: Subscription Wize	ard
Start Name Criteria Values Assign Sites	If you have selected an intelligent or a simple intelligent publication, you have to determine the criteria values for your subscription. To do so, enter a <i>low value</i> for each criteria field and also a <i>high value</i> if the operator requires a value range. You can display the details to each criteria field by marking the field and choosing the <i>Details</i> symbol. Choose <i>Continue</i> to proceed to the next screen, choose <i>Back</i> to return to the previous screen and review your entries, choose <i>Cancel</i> to leave the Subscription Wizard without creating a new subscription.
Complete	Segment Name Seg. Field Name App. Table App. Field Op. Value Low Va BUS_TRANS_MSG_PROCESS_TYPE EQ ZIS BUS_TRANS_MSG_SALES_ORG EQ > 50000001 •
	🔂 Back 🛃 Continue 🗙 Cancel

Be aware that for the criteria field SALES_ORG the sales organization definition for CMR should be used !



4.2.4 Assign Subscriptions to Sites

Using assignments of subscriptions to sites, the systems decides if the sales order should be send to the SAP R/3 system or to the KIB.

CRM	Administration Console					
Transaction code	SMOEAC					
SAP Menu						

Based on the sales organization assign the subscription to the correct site.

Object Site
Object 🛛 😨 🛷
·····
3 Objects
E- C Sites
📮 🛄 External Interface for IDOCs
🗄 🗝 📲 EXT_INT IDOC
🗄 🔤 Subscriptions
🖮 🖳 Subscriptions 💷 🍻 Business Transactions by ZIS/4430
🖻 🔁 Subscriptions 🧀 Business Transactions by ZIS/4430 E 🛄 B/3
iarma Carl Subscriptions iarma is Business Transactions by ZIS/4430 iarma Carl R/3 iarma Carl B iarma Carl B
È C Subscriptions ↓ ૐ Business Transactions by ZIS/4430 E B/3 È ∰ OLTP È C Subscriptions

Subscription	Publication	Sales org.	Туре	Org	Site
Business Transactions by ZIS/3311	Business Transactions by Type/Sales Organization	3311	ZIS	O 50000001	OLTP
Business Transactions by ZIS/3312	Business Transactions by Type/Sales Organization	3312	ZIS	O 5000002	OLTP
Business Transactions by ZIS/3360	Business Transactions by Type/Sales Organization	3360	ZIS	O 5000003	OLTP
Business Transactions by ZIS/4531	Business Transactions by Type/Sales Organization	4531	ZIS	O 5000004	OLTP
Business Transactions by ZIS/4611	Business Transactions by Type/Sales Organization	4611	ZIS	O 50000005	OLTP
Business Transactions by ZIS/4710	Business Transactions by Type/Sales Organization	4710	ZIS	O 50000006	OLTP
Business Transactions by ZIS/4730	Business Transactions by Type/Sales Organization	4730	ZIS	O 5000007	OLTP
Business Transactions by ZIS/4770	Business Transactions by Type/Sales Organization	4770	ZIS	O 5000008	OLTP
Business Transactions by ZIS/4910	Business Transactions by Type/Sales Organization	4910	ZIS	O 5000009	OLTP
Business Transactions by ZIS/4930	Business Transactions by	4930	ZIS	O 50000010	OLTP



	Type/Sales Organization				
Business Transactions by ZIS/4931	Business Transactions by	4931	ZIS	O 50000011	OLTP
	Type/Sales Organization	10.60	-	0.50000010	
Business Transactions by ZIS/4960	Business Transactions by Type/Sales Organization	4960	ZIS	0 50000012	OLTP
Business Transactions by ZIS/3120	Business Transactions by Type/Sales Organization	3120	ZIS	O 50000051	EXT_INT IDOC
Business Transactions by ZIS/3410	Business Transactions by Type/Sales Organization	3410	ZIS	O 50000052	EXT_INT IDOC
Business Transactions by ZIS/4430	Business Transactions by Type/Sales Organization	4430	ZIS	O 50000053	EXT_INT IDOC



5 Customizing Status Interface

5.1.1 Maintain structure relation

Within the structure the segment 'Business Transaction: Item' is relevant:

Structure Relations		
E101CRMXIF_BUSTRANS In	terface: Business Transaction	
E101CRMXIF_ACTIVITY_X	IF Business Transaction: Activity	
E101CRMXIF_LEAD_X	IF Business Transaction: Lead	
■ E101CRMXIF_OPPORTUNITY_X	IF Business Transaction: Opportunity	
E101CRMXIF_PARTNER_XT	IF Business Transaction: Partner	
E101CRMXIF_ORGMAN_X	IF Business Transaction: Organizational Units	
E101CRMXIF_PRICING_X	IF Business Transaction: Pricing Parameters	
■ E101CRMXIF_BILLPLAN_XT	IF Business Transaction: Billing Plan	
E101CRMXIF_BILLING_X	IF Business Transaction: Billing	
■ E101CRMXIF_CANCEL_X	IF Business Transaction: Cancellation	
E101CRMXIF_SUBJECT_XT	IF Business Transaction: Subject	
■ E101CRMXIF_REF_OBJECT_XT	IF Business Transaction: Reference Object	
E101CRMXIF_SALES_X	IF Business Transaction: Sales	
□ E101CRMXIF_SHIPPING_X	IF Business Transaction: Shipping	
E101CRMXIF_PAYPLAN_X	IF Business Transaction: Payment Plan	
■ E101CRMXIF_APPOINTMENT_XT	IF Business Transaction: Appointments	
■ E101CRMXIF_CUMULATED_H_X	IF Business Transaction: Transaction Cumulated Value	
E101CRMXIF_STATUS_H_X	IF Business Transaction: Status Summarization	
E101CRMXIF_STATUS_XT	IF Business Transaction: Status	
E101CRMXIF_DOC_FLOW_XT	IF Business Transaction: Interlinkages	
E101CRMXIF_ATTACHMENT_LINK	Link to Attachment for external Interface CRM	
E101CRMXIF_TEXT_XT	IF Business Transaction: Texts	
E101CRMXIF_CUSTOMER_H_X	IF Business Transaction: Customer Enhancements	
E101CRMXIF_BUSTRANS_ITEM	IF Business Transaction: Item	<<<< ORDERSTATUS Order status change
E101CRMXIF_ACTIVE_SWITCH	IF Business Transaction: Tax Flag Inbound Processing	
E101CRMXIF_BUSTRANS_F	Interface Business Transaction X-Flags	

Within the segment 'Business Transaction: Item' the segment 'Status' is relevant:

E101CRMXIF BUSTRANS ITEM	IF Business Transaction: Item	<<<< ORDERSTATUS Order status change
■ E101CRMXIF_PRODUCT_I_X	IF Business Transaction: Item Product Data	
■ E101CRMXIF_FINPROD_I_X	IF Business Transaction: Financing Product Item	
■ E101CRMXIF_SERVICE_I_X	IF Business Transaction: Service Item	
■ E101CRMXIF_ORDPRP_I_X	IF Business Transaction: Product List Item	
E101CRMXIF_PRICING_I_X	IF Business Transaction: Pricing Item	
■ E101RMXIF_PRICING_PARAL	M_I_X IF Business Transaction: Item Pricing Parameter	
E101CRMXIF_PRCD_COND_X	IF Business Transaction: Pricing Conditions Item	
■ E101CRMXIF_CONFIG_X	IF Business Transaction: Configuration	
■ E101CRMXIF_PARTNER_I_X	I IF Business Transaction: Partner Item	
■ E102CRMXIF_ORGMAN_X	IF Business Transaction: Organizational Units	
■ E101CRMXIF_BILLPLAN_X	IF Business Transaction: Billing Plan	
■ E102CRMXIF_BILLING_X	IF Business Transaction: Billing	
E102CRMXIF_CANCEL_X	IF Business Transaction: Cancellation	
■ E102CRMXIF_SUBJECT_XT	IF Business Transaction: Subject	
E102CRMXIF_REF_OBJECT_2	XT IF Business Transaction: Reference Object	
■ E102CRMXIF_SALES_X	IF Business Transaction: Sales	
■ E102CRMXIF_SHIPPING_X	IF Business Transaction: Shipping	
■ E102CRMXIF_APPOINTMENT	_XT IF Business Transaction: Appointments	
■ E101CRMXIF_CUMULATED_I	_XT IF Business Transaction: Cumulation Value Item	
■ E102CRMXIF_STATUS_XT	IF Business Transaction: Status	<<<< ORDERSTATUS Order status change
■ E101CRMXIF_DOC_FLOW_I_X	XT IF Business Transaction:Item Interlinkages	
■ E102CRMXIF_ATTACHMENT_I	LINK Link to Attachment for external Interface CRM	
■ E102CRMXIF_TEXT_XT	IF Business Transaction: Texts	
■ E101CRMXIF_SCHEDLIN_I_X	X IF Business Transaction: Item Quantities	
E101CRMXIF_SCHEDLIN_XT	IF Business Transaction: Schedule Line Item	
■ E101CRMXIF_CUSTOMER_I_X	IF Business Transaction: Customer Enhancements	
E101CRMXIF_BUSTRANS_IT	EM_F IF Business Transaction: Item X-Flags	



5.1.2 Maintain field mapping and conversion rules

5.1.2.1 Business transaction level

There are two lines that pertain to the highest level of the business transaction: E101CRMXIF_BUSTRANS and E101CRMXIF_BUSTRANS_F.

The settings for E101CRMXIF_BUSTRANS are shown below. A field value is considered a change value (new value) if the field is flagged for change, otherwise a field value is used for selecting the appropriate object.

C	E101CRMXIF_BUSTRANS	Inter	Face: Business Transaction	VD
	E Fleids			
	APPL SNAME	🖪 🔞 🗞	Structure Name. No Business Significance	
		Rule :	Constant	
		Code:	E101CRMXIF BUSTRANS-APPL SNAME = 'CRMXIF BUSTRANS'.	
	OBJECT TASK	🖪 🔞 🗞	IF Business Transaction: Method Flag Header	
	_	Rule :	Constant	
		Code:	E101CRMXIF BUSTRANS-OBJECT TASK = 'U'.	
	OBJECT GUID	🖪 🔞 🗞	Internal Key	
	OBJECT ID	🖪 🙆 📎	Business Transaction Number	
	_	Rule:	Constant	
		Code:	E101CRMXIF BUSTRANS-OBJECT ID = '10750061'.	
	PROCESS_TYPE	🖪 🔞 🦻	Business Transaction Type	
	_	Rule :	Constant	
		Code:	E101CRMXIF_BUSTRANS-PROCESS_TYPE = 'ZIS'.	
	OBJECT_TYPE	🖪 🔞 🏷	Business Transaction Category	
	_	Rule :	Constant	
		Code:	E101CRMXIF_BUSTRANS-OBJECT_TYPE = 'BUS2000115'.	
	POSTING_DATE	🖪 🔞 🏷	Posting Date for a Business Transaction	
		Rule :	Constant	
		Code:	E101CRMXIF_BUSTRANS-POSTING_DATE = '20050825'.	
	DESCRIPTION	🖪 🔞 🦻	Transaction Description	
	DESCR_LANGUAGE	🖪 🔞 🏷	Language Key of Description	
	DESCR_LANGUAGE_ISO	🖪 🔞 🏷	Language Key (ISO)	
	LOGICAL_SYSTEM	🖪 🔞 🏷	Logical System	
		Rule :	Constant	
		Code:	E101CRMXIF_BUSTRANS-LOGICAL_SYSTEM = 'K1_CT1_200'.	
	CRM_RELEASE	🖪 🔞 🏷	SAP R/3 Release	
		Rule :	Constant	
		Code:	E101CRMXIF_BUSTRANS-CRM_RELEASE = 'BBPCRM 400'.	
	CLIENT	🖪 🔞 🏷	Client	
		Rule :	Constant	
		Code:	E101CRMXIF_BUSTRANS-CLIENT = '200'.	
	CREATED_AT	। 🖪 😰 💆	Transaction Was Created at This Time	
	CREATED_BY	🖪 😰 🦻	User that Created the Transaction	
	CHANGED AT	🛯 🖪 🕅 妃	Time of Last Channe to the Transaction	

The CRM IDoc, of type CRMXIF_ORDER_SAVE_M01, contains *object_task* flags at the Header, Item and Schedule Line levels. The value of the flag at a particular level, determines the task performed at the corresponding level of the Business Transaction. The values of the *object_task* flag can be:

- I: Insert
- U: Update
- D: Delete
- C: Current State (only supported at header level)

For our IDOC we set all the *object_taks* flags to U, because we only want to update a status. Further selection values (what transaction are we looking for) that are specified here are the *object_id*, the *process_type*, the *posting_date*, the *logical_system*, the *CRM_release* and the *client*. These settings make sure the correct business transaction is addressed.



5.1.2.2 Business Item Level

There are two lines that pertain to the highest level of the business transaction item: E101CRMXIF_BUSTRANS_ITEM and E101CRMXIF_BUSTRANS_ITEM_F. An example of the settings for E101CRMXIF_BUSTRANS_ITEM is shown below:

-© E	101CRI	MXIF_BUSTRANS	Interfa	ice	Business Transaction	%
	n cia	pldc				
	⊇ F1	01CRMXIE BUSTRANS ITEM	IF	Bus	siness Transaction: Item	7
	- 6	Fields				
				_		
		APPL_SNAME	🖪 🔞	%	Structure Name, No Business Significance	
			Rule :		Constant	
			Code:	<u> </u>	E101CRMXIF_BUSTRANS_ITEM-APPL_SNAME = 'CRMXIF_BUST	RANS_ITEM'.
		UBJECT_TASK		Ø	IF Business Transaction: Method Flag Item	
			Kule :		CONSTANT	
			code:	o,	ETOTORMAIF_BUSIKHNS_ITEM-UBJECT_THSK = 'U'.	
				ő.	Item Number in Decument	
		ITEN_NONDER	Code:	ý	F1010PMXIE BUSTBONS ITEM-ITEM NUMBER = '0000000010	
				∞	External item number	•
			H 👗	ŏ	Transaction Was Created at This Time	
			H 👸	Ď	User that Created the Transaction	
			🖬 👸	Ď	Time of Last Change to the Transaction	
		CHANGED BY	🖪 🙆	Ď	Transaction Last Changed By	
		OBJECT TYPE	🖪 🧖	۶Ż	CRM Item Object Type	
		ITEM_TYPE	🖪 🙆	Ż	Item Category	
		PARENT_ITEM	🖪 🔞	6	Item GUID for External Interface	
		NUMBER_PARENT	🖪 🔞	1	Higher-Level Item Number in Document	
		ALTERNATIVE_ITEM	🖪 🔞	1	Item GUID for External Interface	
		NUMBER_ALTERN	🖪 🔞	1	Item for Which This Item is an Alternative in the	Document
		ITEM_LANGUAGE	L 😰	2	Short Text Language for an Item	
		ITEM_LANGUAGE_ISO		2	Language Key (ISO)	
			P 🕺	2	Posting Date	
				8	Reason for Product Substitution	
				8	Usaye of Alymer-Level Item	
				ő.	Product Name Entered	
			, H 🐰	ő	Product Name Entered Product Description	
			i 🖬 👗	ő,	Global Trade Item Number (GTIN)	
			H 👸	ž	Product Number (Internal)	
		PRODUCT ID	🖬 👸	Ď	Product ID	
		PARTNER PROD	🖪 👸	Ď	Product Number of Business Partner	
		DESCRIPTION_UC	🖪 🖉	6	Product Description in Upper Case for F4 Help	
		PRODUCT_ID_40	🖪 🔞	%	Value of Alternative ID for Products or Individual	Objects

The values here show either the relevant selection (in this case we want to change item 10), or the new values for this item. A field value is considered a change value (new value) if the field is flagged for change, otherwise a field value is used for selecting the appropriate object.

The segment ending with _F contains the change flags. Here the fields that contain change values should have an 'X' assigned. In the settings E101CRMXIF_BUSTRANS_ITEM_F no fields are flagged for change, because at this level nog changes are made. We just want to select the correct item.



5.1.2.3 Item status level

Just as the business transaction item segment the status segment contains two lines pertaining to the highest (and now only) level of this segment. In our case E102CRMXIF_STATUS and E102CRMXIF_STATUS_F.

An example for the settings of E102CRMXIF_STATUS is shown below:

□ E102CRMXIF_STATUS	IF Business Transaction: Status	
🖻 Fields		
APPL_SNAME	🔢 👔 🔗 Firucture Name, No Business Significance	
	Rule : Constant	
	Code: E102CRMXIF_STATUS-APPL_SNAME = 'CRMXIF_STATUS'.	
STATUS	🚹 🔞 🚀 Object Status	
	Rule : Constant	
	Code: E102CRMXIF_STATUS-STATUS = 'I1137'.	
USER_STAT_PROC	🚹 🔞 🚀 Status Profile	
ACTIVE	📘 🔞 🚀 Logical Variable	
	Rule : Constant	
	Code: E102CRMXIF_STATUS-ACTIVE = 'X'.	
PROCESS	🚹 🔞 🚀 Business Transaction	
TXT 04	📕 🔞 🔗 Individual status of an object (short form)	
TXT30	🚹 🔞 🔗 Object status	Here
LANGUAGE	🖪 🔞 🖗 Language Key	the
LANGUAGE_ISO	🚹 🔞 🖗 Language Key (ISO)	the
		valu
□ E102CRMXIF_STATUS_F	IF Business Transaction: Status X-Flags	for
		101

the *status* field acts as a selection value (what status are we talking about) and the flagged for change (see below) *active* field acts as a change value (what should be the new value for this field). The fields are given the values I1005 and X respectively. This means that the status I1005 ('Completed') should be activated.

The line ending with _F contains the change flags. Here the fields that contain change values should have an 'X' assigned, in our case the field *active*:

E102CRMXIF_STATUS_F	IF Bu	siness Transaction: Status X-Flags
APPL_SNAME	🔢 🔞 🏷	Structure Name, No Business Significance
	Rule :	Constant
	Code:	E102CRMXIF_STATUS_F-APPL_SNAME = 'CRMXIF_STATUS_F'.
STATUS	🖪 🔞 🗞	Updated information in related user data field
USER_STAT_PROC	🖪 🔞 🗞	Updated information in related user data field
ACTIVE	🖪 🔞 🗞	Updated information in related user data field
	Rule :	Constant
	Code:	E102CRMXIF_STATUS_F-ACTIVE = 'X'.
PROCESS	🖪 🔞 🌽	Updated information in related user data field
TXT 04	🖪 🔞 🌽	Updated information in related user data field
TXT30	🖪 🔞 🌽	Updated information in related user data field
LANGUAGE	🖪 🔞 🌽	Updated information in related user data field
LANGUAGE_ISO	🖪 🔞 🏷	Updated information in related user data field

Finish this IDoc and generate an instance. In the next paragraph the steps are shown to adjust this IDoc to contain more status segments and more item segments.

6 Adjusting the IDoc to your needs

6.1 Replicating segments

An IDoc created with the transaction **lsmw** (refer to the appendix for screenshots) consists of only one segment per object type and attribute. If, for example, multiple items have to be addressed, the item



segment has to be replicated. This can be done with the help of the 'Test tool for IDoc processing' (transaction **we19**).

In the simple form (as created with transaction lsmw) our IDoc looks something like this: EDIDC 2000000000005188620 53 2SAPCT1 LSK1_CT1_200



Within the segment of the business transaction item we have only one status segment. In the test tool we can now select a segment and copy and paste it in the IDoc. The next steps replicate the segment of the document item status, so we can address more than one status for this item:

1. Select the segment to copy (in this case E102CRMXIF_STATUS) and click the button Copy:



2. Click the button Paste and choose 'At the same level'. There are now two status segments:



Any number of segments can be added this way. We now have an IDoc that addresses two statuses within one document item. To add a segment for another document item the routine is the same as above. Keep in mind that when a segment is copied, all children of this segment are copied along with it (a whole subtree is copied).



In the following steps we are going to replicate the segment of the business transaction item. The new item will have two status segments, just like the source segment:

1. Select the segment to copy (in this case E102CRMXIF_BUSTRANS_ITEM) and click button Copy

🖸 🗶 🔁 🛱 📅 🗎 🖬 🎜 🖓 🖻	andard inbound Inb	ound function module	Inbound file	Standar
EDIDC 200000000000000518862	0 53 2	SAPCT1 LSK	1_CT1_200	
E101CRMXIF BUSTRANS	CRMXIF	BUSTRANS	U	
E101CRMXIF_BUSTRAM	IS_ITEM CRM	XIF_BUSTRANS_	ITEM	U
E102CRMXIF_STA	TUS_XT	CRMXIF_STATU	s_xt	
□ E102CRMXIF	_STATUS	CRMXIF_S	TATUS_F	
□ E102CRMXIF	STATUS	CRMXIF	TATUS F	
			_	
E101CRMXIF BUS	TRANS ITEM F	CRMXIF BUSTR	ANS ITEM F	

2. Click the button Paste and choose 'At the same level'. There are now two item segments:



In the next paragraph an example is given of the settings for one such item segment.



6.2 Settings for the business transaction item segment

There are two lines that pertain to the highest level of the business transaction item: E101CRMXIF_BUSTRANS_ITEM and E101CRMXIF_BUSTRANS_ITEM_F.

C	E10 ⁻	1CRMXIF	BUST	RANS	ITEM	CRMA	IF_BUS	TRANS	ITE	1
\vdash	-œ	E102CRI	1X I F_	STATU	S_XT		CRMXIF	_STATL	IS_XT	
		E101CR	4XIF	BUSTR	ANS IT	EM F	CRMXIF	BUSTF	RANS	ITEM F

The settings for E101CRMXIF_BUSTRANS_ITEM (screenshot taken from transaction we19 after dubbelclicking the line) are shown below:

📜 Change data record	×
APPL_SNAME	CRMXIF_BUSTRANS_ITEM
OBJECT_TASK	U
ITEM_GUID	
ITEM_NUMBER	000000010
ITEM_NUMBER_EXT	
CREATED_AT	
CREATED_BY	
CHANGED_AT	
CHANGED_BY	
OBJECT_TYPE	
× 8 0 0 8 ×	

These fields show either the relevant selection (in this case we want to change item 10), or the new values. A field value is considered a change value (new value) if the field is flagged for change, otherwise a field value is used for selecting the appropriate object. Not all fields are shown here. Browse through the fields with the arrow options.

The line ending with _F contains the change flags. Here the fields that contain change values should have an 'X' assigned. The edit screen for E101CRMXIF_BUSTRANS_ITEM_F looks like this:

📜 Change data record	×
APPL_SNAME	CRMXIF_BUSTRANS_ITEM_F
ITEM_GUID	
ITEM_NUMBER	
ITEM_NUMBER_EXT	
CREATED_AT	
CREATED_BY	
CHANGED_AT	
CHANGED_BY	
OBJECT_TYPE	
ITEM_TYPE	
× 8 8 8 8 ×	

Here no flags are set, because in our case no changes have to be made on this level. We only want to select item 10.

6.3 Settings for the status segment

The item segment contains two status segments:



BIG1CRMXIF_BUSTRANS_ITEM	CRMXIF_BUSTRANS_ITEM
E102CRMXIF_STATUS_XT	CRMXIF_STATUS_XT
Image: bit	CRMXIF_STATUS_F CRMXIF_STATUS_F
E101CRMXIF_BUSTRANS_ITEM	LF CRMXIF_BUSTRANS_ITEM_F

In this paragraph an example is given of the settings for one such segment. Just as the business transaction item segment the status segment contains two lines pertaining to the highest (and now only) level of this segment. In our case E102CRMXIF_STATUS and E102CRMXIF_STATUS_F:

E102CRMXIF_STATUS	CRMXIF_STATUS_F
E102CRMXIF_STATUS_F	CRMXIF_STATUS_F

The settings for E102CRMXIF_STATUS (screenshot taken from transaction we19 after dubbelclicking the line) are shown below:

🥃 Change data record		×
APPL_SNAME	CRMXIF_STATUS_F	
STATUS	11005	
USER_STAT_PROC		
ACTIVE	x	
PROCESS		
TXT04		
TXT30		
LANGUAGE		
LANGUAGE_ISO		
✓ ×		

Here the value for the *status* field acts as a selection value (what status are we talking about) and the flagged for change (see below) *active* field acts as a change value (what should be the new value for this field).

The fields are given the values I1005 and X respectively. This means that the status I1005 ('Completed') should be activated.

The line ending with _F contains the change flags. Here the fields that contain change values should have an 'X' assigned. The edit screen for E102CRMXIF_STATUS_F is given on the next page.

텵 Change data record	×
APPL_SNAME	CRMXIF_STATUS_F
STATUS	
USER_STAT_PROC	
ACTIVE	x
PROCESS	
TXT04	
TXT30	
LANGUAGE	
LANGUAGE_ISO	
 ✓ × 	

These settings indicate that only the value *active* should be set to a value:



Repeat this step for all statuses that should be set.

6.4 Order status change initiated by the KIB

The system status of sales order items can be set to **delivered** and/or **completed** with an IDOC. The system status of the sales order header is automatically changed accordingly (and so are the user statuses). A sales order starts with system and user status **open** when created, at item level as well as header level. In the table below a status overview is given following input from the IDOC.

IDOC	setting	Item level		Header level	
Completed (1005)	Delivered (I1137)	System status	User status	System status	User status
x		Completed	Completed	In process/ Completed*	In process/ Completed*
	х	In process Delivered	In process	In process	In process
x	х	Completed Delivered	Completed	In process/ Completed*	In process/ Completed*

* The header assumes the status **completed** only after all items are assigned the status **completed**. (If an order is only partially completed, the header status remains **In process**)

The rows in this table represent three independent scenario's. Any of these scenario's can be processed individually. When processing these scenario's one after another, order is not relevant (no interaction).

Example

IDOC 5176 activates the status **I1137** ('delivered') for item **10** of sales order **10750088**. A screenshot of the transaction *we19* for this IDOC is shown below:

tool for IDoc processing	
jdit Goto Utilities Settings System Help	5
Image: Control of the state of the stat	
🗶 🖸 📸 🗃 📔 🔁 🎜 Standard inbound Inbound function module Inbound file Standard outbound processing	
10 28888888888861774528 52 2500574 1524 574 288	-
- E E101CRMXIF_BUSTRANS U 10750088 ZI S BUS200011520050825	
EIGTCRMXIF_BUSTRANS_ITEM CRMXIF_BUSTRANS_ITEM U GGGGGGGGTG	
E102CRHXIF_STATUS_XT CRHXIF_STATUS_XT X	
EI02CRHXIF_STATUS CRHXIF_STATUS_F I1005	
E102CRMXIF_STATUS_F CRMXIF_STATUS_F	
E102CRHXIF_STATUS CRHXIF_STATUS_F I1137 X	
E102CRMXIF_STATUS_F CRMXIF_STATUS_F	
FIGTPRIXTE RUSTRANS ITEM F CRIMITE RUSTRANS ITEM F X	
	_
	17.40
	17:40 ///

The status I1137 as activated with the following settings:



📜 Change data record		X
APPL_SNAME	CRMXIF_STATUS_F	
STATUS	11137	
USER_STAT_PROC		
ACTIVE	x	
PROCESS		
TXT04		
T×T30		
LANGUAGE		
LANGUAGE_ISO		
✓ ×		



A. Appendix A: External Interface Settings

Basic Settings for Using External Interfaces

Various settings must be made within CRM Middleware as well as the XIF (external interface) adapter attached to it in order to be able to use external interfaces.

From Support Package 06 onwards you should use message types CRMXIF_*_SAVE_M (M stands for mass processing) or CRMXIF_*_SAVE_S (S stands for single processing) because, in contrast to the message type CRMXIF_*_SAVE, they contain corresponding segment names in an IDoc XML display. CRMXIF_*_SAVE message types already in use may be retained, but non-corresponding names may not.

Customizing IDoc-Outbound

- 1. Create a suitable RFC destination in the SAP IMG <u>Define Target Systems for RFC Calls</u> (for example, a TCP/IP connection to the Business Connector).
- 2. Create a logical system (for example, **CRM_XML_BC**, a connection to the Business Connector).
- 3. Create a receiver port (transactional RFC) in SAP IMG <u>Define Port</u>, indicating the RFC destination you created earlier.
- 4. Create a partner profile, for example, partner type LS with the partner number CRM_XML_BC, in the SAP IMG <u>Maintain Partner Profile Manually</u>.
- Enter all outbound parameters for the logical system CRM_XML_BC in Create Outbound Parameters in the Outbound Parameters window (for example Transfer IDocs at once, Basic Type CRMXIF_*_SAVE01, Message Type CRMXIF_*_SAVE_M, Create or Generate Receiver Port as before).
- 6. Create a site (transaction SMOEAC). To do this, select Object Type Sites and Create Object. Assign your site a suitable name and select Site Type External Interface for IDocs. Assign the partner profile created previously as a Site Attribute.
- 7. Use object type Subscriptions to maintain a subscription for publication of the object with the predefined site.
- 8. Create an entry for the new site using XIF customizing transaction CRMXIF_C1 via F4 help (BDoc Type = <objname>, IF Type = 'CRMXIF_*_SAVE_M', Set relevant flag for complete Data and Return). The flag Flag for complete data is only relevant for the objects "order", "business partner", and "business partner relationship". It flags whether only delta changes or the object instance should be transferred completely. The object "business document" is always sent completely, regardless of flag status.

Customizing XML-Outbound

 Create an HTTP connection to an external server (connection type G or H) in SAP IMG <u>Define</u> <u>Target Systems for RFC Calls</u>. If the external server is an SAP System (type H), the SOAP service path prefix is "/sap/bc/soap/rfc". The standard service number (port) for HTTP is 8080. The current HTTP port for the receiving system can be determined in the SAP System using transaction SMICM -> Goto -> Services.



- 2. Create a site within the Middleware Administration Console (transaction SMOEAC). To do this, select object type **Sites**, then **Create Object**. Give the site a suitable name, and then select site type **External Interface for XML**. Assign the HTTP destination you created earlier as a site attribute.
- 3. Follow points 6) to 8) from Customizing IDoc-Outbound.

Customizing IDoc-Inbound

- 1. Create a logical system (for example, CRM_XML_BC) in SAP IMG Define Logical System.
- Create a partner profile, for example, with partner type LS and with partner number CRM_XML_BC, in the SAP IMG <u>Maintain Partner Profile Manually</u>. Enter a suitable message type CRMXIF_*_SAVE_M in the Inbound Parameters window.

Customizing XML-Inbound

No Customizing is necessary in the CRM System for receiving SOAP/XML documents. You can create or view the corresponding HTTP port (standard number 8080) using transaction SMICM -> Goto -> Services. The SOAP inbound service can be reached using the path "/sap/bc/soap/rfc". The complete URL for SOAP messages is "http://<appservername>:8080/sap/bc/soap/rfc".



B. Appendix B: Note 502037

Symptom

The standard online replication model for transaction data in the messaging flow (publication "All Business Transactions (MESG)") does not support filtering.

Other terms

All Business Transactions (MESG), Load to R/3 backend with filtering, BUS_TRANSACTION_MESSAGE, Filtering, R/3 backend, SMOEAC, Administration Console, replication model, data exchange, All Business Transactions (MESG), BUS_TRANS_MSG

Reason and Prerequisites

You want to filter business transaction data (such as sales documents) to be loaded to an R/3 backend.

However, the standard publication "All Business Transactions (MESG)" is of type "Simple bulk (msg)" and therfore does not support filtering.

Solution

To be able to filter the business transaction data, you must delete the existing replication model for business object type BUS_TRANSACTION_MESSAGE and recreate it with filtering allowed.

Perform the following steps:

In your development system:

- 1. Make sure that no new sales documents are created by locking the online user and deregistering all inbound queues of the object type.
- 2. Delete the subscription of publication "All Business Transactions (MESG)" in the Administration Console (transaction code SMOEAC)
- 3. Delete the publication "All Business Transactions (MESG)".
- 4. Delete the replication object "BUS_TRANSACTION_MESSAGE".
- 5. Create a new replication object "BUS_TRANSACTION_MESSAGE" of type "simple intelligent (msg)" and select the relevant criteria fields with the correct operator. (For sales documents, see Note 497434).
- 6. Create a new publication, such as "Sales Documents by Field1 Field2." and assign the relevant criteria fields to it.
- 7. Create a new subscription, such as "Sales Documents by AAA BBB..." for the new publication
- 8. Assign the subscription to the R/3 backend site.
- 9. Unlock the user and re-register the inbound queues.
- 10. Test your changes.

Do not not release the transport request with your changes before you have performed the first two steps below in your test and productive systems.

In your test and productive systems:

- 1. Make sure that no new sales documents are created by locking the online user and deregistering all inbound queues of the object type.
- 2. Delete the subscription for publication "All Business Transactions (MESG)" in the Administration Console.



- 3. Release the transport request with the changes in the development system to transport them to your test and productive systems.
- 4. Generate the runtime data using transaction SMOGPP in your import client (normally client 000)
- 5. Create a new subscription such as "Sales Documents by AAA BBB ..."
- 6. Assign the subscription to the R/3 backend site.
- 7. Unlock the user and re-register the inbound queues.



A. Appendix C: BADI Implementation

Following BADI has been implemented to correct an error situation. When creating an order in CRM with status error, the order will not be replicated to the KIB. When changing the order to correct the error, the order will be send to the KIB with an update indication. However this should be an initial indication.

Implementation name	Z_MAP_XIF_DA	FA Inactive	
Implementation short text	Change mapping of order data fields from/to KIB		
Definition name	CRMXIF_ORDER	MAP	
Attributes Interface			
Interface name	IF_EX	_CRMXIF_ORDER_MAP	
Name of implementing class:	ZCL_I	MMAP_XIF_DATA	
Method	Implementation type	Description	
CHANGE_MAPPED_DATA_OUT	ABAP ABAP Code 📃 💌	Change Mapping in Output	
CHANGE_MAPPED_DATA_IN	ABAP ABAP Code 📃 💌	Change Mapping in Inbox	

METHOD if_ex_crmxif_order_map~change_mapped_data_out .

```
*** Anton de Gier, 020206:
*** Implementation for Kverneland EPOS 2.
*** The coding below checks if an order has been sent to the KIB
*** by checking on the field CRMD-SALES-submission. If this field
*** is initial this is the first time, the field will be filled
to
*** indicate that the order has been processed before.
*** if the order has not been processed before, but the
OBJECT TASK
*** field in the CS_DATA_MAPPED table (which contains the order
*** data about to be sent to KIB) is U, this means that the order
*** has been changed in CRM but was initially saved with errors
and
*** not sent to the KIB. The KIB cannot handle this and so the
*** OBJECT_TASK field has to be set to I.
 DATA: cv_sales TYPE crmd_sales.
 DATA: cv_jest TYPE crm_jest.
 DATA: cv_data_mapped TYPE crmxif_bustrans.
 DATA: lv_guid TYPE crmd_link.
 CLEAR cv sales.
 CLEAR cv_data_mapped.
 CLEAR lv_guid.
```



```
LOOP AT cs_data_mapped INTO cv_data_mapped.
*** get link GUID
    SELECT SINGLE * FROM crmd_link INTO lv_guid WHERE
    guid_hi = cv_data_mapped-object_guid AND
    objtype hi EQ '05' AND
    objtype_set EQ '11'.
***select help field we abuse as indicator
    SELECT SINGLE * FROM crmd_sales INTO cv_sales WHERE guid =
     lv_guid-guid_set.
    IF cv_sales-submission IS INITIAL. "order not processed by
KIB
*** check if the order status is equal to 'contains errors'
*** if the order contains errors, do not set the indicator
      SELECT SINGLE * FROM crm_jest INTO cv_jest WHERE
        objnr = cv_data_mapped-object_guid AND stat = 'I1030'.
      IF sy-subrc = 0 AND cv_jest-inact = ' '.
*** order contains errors, so do nothing
      ELSE.
        IF cv data mapped-object task EQ 'U'.
          cv_data_mapped-object_task = 'I'.
          MODIFY cs_data_mapped FROM cv_data_mapped.
        ENDIF. "object task U
*** tell the system order has been processed.
        MOVE 'X' TO cv sales-submission.
        UPDATE crmd_sales FROM cv_sales.
      ENDIF. "Order contains errors
    ENDIF. "lv_submission
  ENDLOOP. " cs_data_mapped
```

ENDMETHOD.