



# ThaiNamthip Company Limited

## ***Vendor Evaluation Dashboard V2.***

### **SPECIFICATION**

**Functional Area:** BI

**Process:** BI

**Category:** Report

**APP DEV ID:**

**FDD:**

**Spec ID:** BI-2470

**Document** BI-2470-Vendor Evaluation Dashboard V2.

**Name:**

**Description:** Dashboard of Vendor assessment for all function

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**1. Responsibilities**

Responsibility Role	Person Name	Contact Details	Comments
Author	Sutripat.ng	BI	

**2. Change Control**

Version	Version Details	Person Details	Date
1.0	Initial	Sutripat.ng	13-05-2025

### 3. Functional Dependencies / Referenced Documents

Dependency Type / Reason	Document Identification	Version
	<Reference to the FDD>	<Version>

## 4. Detailed Requirements / Elaboration of Requirements

### Overview Requirements

จัดทำ Dashboard สำหรับแสดงผลลัพธ์ของการประเมินการใช้บริการของ Vendor สำหรับทุกหน่วยงาน เพื่อช่วยประกอบการตัดสินใจในการใช้บริการกับ Vendor นั้นๆ อีกทั้งยัง เป็นการประเมิน Vendor เพื่อให้ได้ตามมาตรฐาน ของทาง Swire-Coca Cola

### Detailed Requirements

- สร้างโครงสร้าง Table สำหรับเก็บข้อมูล ในแต่ละหน่วยงาน ที่ได้รับข้อมูลมาจาก Sharepoint List ประกอบด้วย Table ต่อไปนี้  
**Table:**
  - STG\_MS\_FORM\_AGILE
  - STG\_MS\_FORM\_COM
  - STG\_MS\_FORM\_ENERGY\_CHEMICAL
  - STG\_MS\_FORM\_IT
  - STG\_MS\_FORM\_LOGISTIC
  - STG\_MS\_FORM\_MFG
  - STG\_MS\_FORM\_OUTSOURCE
  - STG\_MS\_FORM\_PROPERTY
  - STG\_MS\_FORM\_RAW\_MATERIAL
  - STG\_MS\_FORM\_PACKAGING
  - STG\_MS\_FORM\_WASTE

#### Structure

No.	Field	Type
1	sharepoint_list	nvarchar(1000)
2	item_id	int
3	title	nvarchar(1000)
4	item_created	datetime
5	question_name	nvarchar(2000)
6	response	nvarchar(2000)
7	question_order	int
8	odata_question	nvarchar(1000)
9	odata_type	nvarchar(1000)
10	odata_id	nvarchar(1000)

11	odata_link	nvarchar(1000)
----	------------	----------------

2. สร้างโครงสร้าง View สำหรับเก็บข้อมูล ในแต่ละหน่วยงาน หลังจากการ Transform Data จาก (ข้อ 1)  
ประกอบด้วย View ต่อไปนี้

- [View:](#)
1. VW\_STG\_MS\_FORM\_AGILE
  2. VW\_STG\_MS\_FORM\_COM
  3. VW\_STG\_MS\_FORM\_ENERGY\_CHEMICAL
  4. VW\_STG\_MS\_FORM\_IT
  5. VW\_STG\_MS\_FORM\_LOGISTIC
  6. VW\_STG\_MS\_FORM\_MFG
  7. VW\_STG\_MS\_FORM\_OUTSOURCE
  8. VW\_STG\_MS\_FORM\_PROPERTY
  9. VW\_STG\_MS\_FORM\_RAW\_MATERIAL
  10. VW\_STG\_MS\_FORM\_PACKAGING
  11. VW\_STG\_MS\_FORM\_WASTE

#### Structure

No.	Field	Type
1	Function_Name	nvarchar(2)
2	Function_SubType	nvarchar(100)
3	UniqueID	nvarchar(1005)
4	FormYear	nvarchar(4000)
5	RoundYear	nvarchar(1)
6	SharePoint_List	nvarchar(1000)
7	Item_ID	int
8	Title	nvarchar(1000)
9	SubmissionTime	datetime2
10	ResponderEmail	nvarchar(2000)
11	Level1	nvarchar(2000)
12	Level2	nvarchar(2000)
13	Level3	nvarchar(100)
14	Pur_Grp	nvarchar(100)

15	Plant	nvarchar(100)
16	Product	nvarchar(100)
17	Vendor_Name	nvarchar(2000)
18	Comment1	nvarchar(2000)
19	Comment2	nvarchar(1000)
20	Comment3	nvarchar(1000)
21	Comment4	nvarchar(1000)
22	Above1MB	nvarchar(2000)
23	Question_Order	int
24	Question_Name	nvarchar(200)
25	Response	nvarchar(2000)
26	Response_Value	decimal(25,4)

3. สร้างโครงสร้าง View สำหรับเก็บข้อมูล ผลลัพธ์ของการประเมิน Vendor แบบแสดงรายละเอียด

**View:** VW\_FACT\_MS\_FORM

#### Structure

No.	Field	Type
1	UniqueID	nvarchar(100)
2	FormYear	nvarchar(100)
3	RoundYear	nvarchar(100)
4	UniqueGroupID	nvarchar(1019)
5	JoinKey	nvarchar(1019)
6	Function_Name	nvarchar(13)
7	Function_SubType	nvarchar(100)
8	Scoring_Group	nvarchar(100)
9	SharePoint_List	nvarchar(100)
10	Item_ID	nvarchar(100)
11	Title	nvarchar(100)
12	SubmissionTime	nvarchar(100)
13	ResponderEmail	nvarchar(100)

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14	Level1	nvarchar(500)
15	Level2	nvarchar(100)
16	Level3	nvarchar(100)
17	Pur_Grp	nvarchar(100)
18	Plant	nvarchar(100)
19	Product	nvarchar(100)
20	Vendor_Name	nvarchar(100)
21	Comment	nvarchar(1000)
22	Above1MB	nvarchar(100)
23	Group_Question	nvarchar(100)
24	Question_Order	bigint
25	Question_Number	nvarchar(3)
26	Question_Name	nvarchar(300)
27	Response	nvarchar(100)
28	Response_Value	decimal(25,4)
29	Max_Response_Value	decimal(25,4)
30	Raw_Score	decimal(9,4)
31	Weight_UniqueId	decimal(9,4)
32	Score_UniqueId	decimal(9,4)
33	Weight_Source	decimal(9,4)
34	Weight	decimal(9,4)
35	Score	decimal(9,4)
36	WeightTotal	decimal(38,4)
37	Weight_Calc	decimal(9,4)
38	Score_Calc	decimal(9,4)
39	Score_Calc_Format	nvarchar(4000)
40	Weight_RM	decimal(9,4)
41	Score_RM	decimal(9,4)
42	Score_RM_Format	nvarchar(4000)

43	Weight_PCM	decimal(9,4)
44	Score_PCM	decimal(9,4)
45	Score_PCM_Format	nvarchar(4000)
46	GradeByUniqueId	varchar(1)
47	RawVendorScore	decimal(38,4)
48	RawVendorFormCount	int
49	SumScoreByVendor	decimal(38,6)
50	GradeByVendor	varchar(1)
51	RawVendorLevelScore	decimal(38,6)
52	RawVendorLevelFormCount	int
53	SumScoreByVendorLevel	decimal(38,6)
54	GradeByVendorLevel	varchar(1)
55	CURRENT_YEAR_INDEX	int

- สร้างโครงสร้าง View สำหรับเก็บข้อมูล ผลลัพธ์ของการประเมิน Vendor แบบสรุป (summary)

[View: VW\\_FACT\\_MS\\_FORM](#)

#### Structure

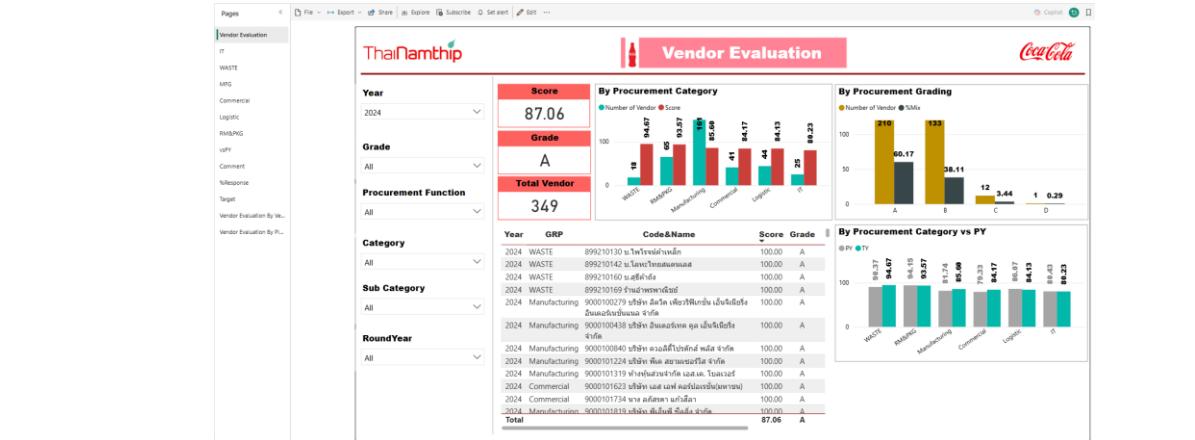
No.	Field	Type
1	QueryPart	varchar(19)
2	JoinKey	nvarchar(619)
3	UniqueId	nvarchar(100)
4	FormYear	nvarchar(100)
5	Function_Name	nvarchar(13)
6	Function_SubType	nvarchar(100)
7	Scoring_Group	nvarchar(100)
8	RoundYear	nvarchar(100)
9	SharePoint_List	nvarchar(100)
10	SubmissionTime	nvarchar(100)
11	ResponderEmail	nvarchar(100)
12	Level1	nvarchar(500)

13	Level2	nvarchar(100)
14	Level3	nvarchar(100)
15	Vendor_Name	nvarchar(100)
16	Plant	nvarchar(100)
17	Product	nvarchar(100)
18	Comment	nvarchar(-1)
19	Above1MB	nvarchar(100)
20	Pur_Grp	nvarchar(100)
21	Group_Question	nvarchar(100)
22	Question_Number	nvarchar(4000)
23	Question_Number_Sort	nvarchar(4000)
24	Question_Name	nvarchar(300)
25	Cell_Value	decimal(38,4)
26	Response_Value	decimal(38,4)
27	Max_Response_Value	decimal(25,4)
28	Weight_Source	decimal(9,4)
29	Weight_Calc	decimal(9,4)
30	Weight_Total_Line	decimal(9,4)

## 1. สร้าง Dashboard บน PowerBI

**Report:** Vendor Evaluation

### 1. Layout Report: vendor Evaluation



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## 2. Layout Report: Report แต่ละกลุ่มงาน

Year	Vendor Name	Category	Sub Category	Question												Total
				Weight	Q01	Q02	Q03	Q04	Q05	Q06	Q07	Question	S01	S02	S0	
RoundY...				15.00	15.00	30.00	5.00	5.00	15.00	15.00	15.00	30.0	Quality	Quality	Quality	Deliv
All																
2024	9000100009 บริษัท ค้าขายปลีกและรetails อิเล็กทรอนิกส์ IT	IT		3.50	3.50	3.00	3.50	3.00	3.50	3.00	3.00	23.00	13.13	13.13	22.5	
9000100071 บริษัท สูบบุหรี่ สมัยใหม่เพื่อสุขภาพ จำกัด	IT			3.50	3.50	2.50	3.00	2.50	4.00	3.00	22.00		13.13	13.13	18.0	
9000100096 บริษัท ไฟฟ้า (ประเทศไทย) จำกัด	IT			3.50	3.50	3.50	3.00	3.00	3.50	3.50	23.50	13.13	13.13	26.2		
900010146 บริษัท แมตต์ซีรีส์ เน็ตเวิร์กส์ จำกัด	IT			3.50	3.25	3.75	3.75	3.50	3.50	3.50	24.75	13.13	12.19	26.1		
9000103709 บริษัท หงส์ จำกัด	IT			3.50	3.50	3.50	3.25	3.50	3.25	3.25	23.75	13.13	13.13	26.5		
9000103711 บริษัท แอดไวซ์ คอมพิวเตอร์ จำกัด	IT			3.75	3.75	3.75	3.75	3.75	3.50	3.50	25.75	14.06	14.06	28.1		
9000103726 บริษัท แมตต์ซีรีส์ เน็ตเวิร์กส์ จำกัด	IT			4.00	3.50	4.00	4.00	3.50	3.00	3.50	25.50	15.00	13.13	30.0		
9000103726 บริษัท จิตวิจัย จำกัด	IT			2.67	2.67	2.67	3.00	3.00	2.33	3.00	19.33	10.00	10.00	20.0		
9000103731 บริษัท โน๊ต คอมพิวเตอร์ จำกัด	IT			2.50	2.00	2.50	2.00	2.00	3.00	3.00	17.00	9.38	7.50	18.7		
9000102938 บริษัท แอดไวซ์ คอมพิวเตอร์ จำกัด	IT			3.50	3.50	3.50	3.50	3.50	3.50	3.50	24.50	13.13	13.13	26.2		
9000102943 บริษัท ไฟฟ้าและอุปกรณ์ดิจิทัล จำกัด	IT			4.00	4.00	3.50	3.00	3.00	3.00	3.00	23.50	15.00	15.00	26.2		
9000103451 Clobotics Pte Ltd	IT			3.00	3.00	4.00	4.00	4.00	4.00	3.00	25.00	11.25	11.25	30.0		
9000103533 พล.พล.พล. จำกัด	IT			3.00	3.00	3.00	3.00	3.00	3.00	3.00	21.00	11.25	11.25	22.5		
9000103679 บริษัท เมืองฟ้า (ประเทศไทย) จำกัด	IT			3.67	3.33	2.67	3.33	2.33	3.67	3.33	22.33	13.75	12.50	26.1		
9000103725 บริษัท ชีวะ จำกัด	IT			4.00	4.00	4.00	4.00	4.00	3.00	4.00	27.00	15.00	15.00	30.0		

## 2. เงื่อนไขการคำนวณ

- กรณี Vendor ที่ Packaging ไม่ประเมิน : การที่ Packaging เข้าไปประกอบการประเมินว่า “-” หรือ ไม่เข้าไปประเมินเลย จะให้ผลลัพธ์ที่เท่ากัน
- กรณีการประเมิน Vendor
  - Packaging ที่ประเมิน Vendor จะต้องประเมินทุกข้อ
  - Packaging หากไม่ประเมิน Vendor จะต้องไม่ประเมินเลยแม้แต่ข้อเดียว

## 5. Localization / Translation Requirements

Item	Type	Description	Comments
<No>	<Type>	< Translation Requirements Description>	<Comment>


## 6. Technical Attributes (Completed by APP DEV)

Parameter	Value			
	Item	Object Type	Naming	Comment

## 7. Authorization Objects Referenced

Item	Object Class	ACTVT	Field1	Field2	Field3	Field4	Field5
<No>	<Auth. Class>	<Name>	<Field>	<Field>	<Field>	<Field>	<Field>

## 8. Unit Test Information for Developers

Step	Action	Object Type	Object Identification	Parameters / Data / Elements

## 9. Test Scenarios for Test Management

Item	Scenario Description	Key Parameters

## 10. Integration / Impact

Aspect	Details
Functionality Affected	
Developments Affected	
Job Stream Predecessors	
Job Stream Successors	

## 11. Unresolved Issues / Pending Requirements

Item	Details

## 12. Appendices

File	Location

## 13. Brief Technical Overview

### Brief Technical Overview

*<Give a brief technical overview of different components needed to realize the development + add any special*

## 14. Report

### 14.1. Report Detail Description

*< This section should contain a detail about the type of information that should appear on the report. This section should include the main dimensions of the report, explanation of calculations and sorting. This should also include business rules or logics that should be included in the report. >*

#### **1.Modification of an existing Report ( Standard SAP / CokeOne Template ) :**

*< This section should describe an existing report. Clearly indicate if the report mentioned is to be copied into a new version or to be changed as a result of this specification.. For example, reports may be extensions of existing reports or Markets may extend/copy global reports and modify them to suit their needs. >*

#### **2.Summarized Functionality Of Existing Program**

*< Describe (preferably in bullet points) the components documented in this development specification that are the current functionality to the existing program. >*

#### **3. Summarized suggested modifications to existing program: .**

*< Describe (preferably in bullet points) the components documented in this development specification that are specifically modifications to the existing program. >*

#### **4.Necessary modifications:**

*< To execute an old program in the new solution often several modifications are necessary. Several examples can be provided like:*

*Change in the pricing condition;  
Change in the plant >*

### 14.2. Selection Screen Fields

*< This section should contain all the fields used for selection in the selection screen >*

Label	Type, Parameter or Select- Option	Related DDIC field	Default Value	Mandatory /Optional	Validation/Field Edits/Check table/Match code
<field label>	<type>	<table- field>	<default>	<M,O>	<Validation>

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## 14.3. Output Fields

< This section should contain all the output fields displayed in report. If its an interactive report the screen number should also be mentioned. >

Output Label	Related SAP table-field (if any)	Length	Output Characteristics
	<table-field>		

## 14.4. Database Tables Used

< Data Dictionary tables used / updated in SAP after the successful completion of the process >

Table/Database Name	Table/Database Description	Read (Y/N)	Update (Y/N)	Key Fields	Key Field Description
<Table Name>	<Table Description>				<Field Description>

## 14.5. Program Logic

< Detail Logic of the Program should be written here >

## 14.6. External Files Used

For example, if this report automatically writes to file

File Name	File Description	Usage

## 14.7. External File Layout

Field Name	Key	Declaration	Description
<table-field>			

**15. SAP Scripts/Smartforms**

## 15.1. Form Detailed Description

*<This section should contain a detailed description about the type of information that should appear on the form. This section should include the main dimensions of the form, explanation of calculations and sorting. This should also include any business rules or logic that should be included in the form.>*

## 15.2. Existing SAP Layout Set

*<Provide detail description of the existing R/3 SAPscript or Smartforms layout set(s) and intended changes>*

Output type	<Printer Output Type>
Program Name	<Program Name>
Layout Form Name	<Layout>

## 15.3. Data Mapping Matrix

*<Provide information about where to obtain and how to present all the fields that will be displayed/printed on the SAPScript. >*

Label	R/3 Field	Functionality	Calculation Logic	Print-on-Page	Label Position	Font	Output Format	Font Format

	Table: Screen:		If this field has to be calculated from some other field then please provide the detailed logic with an example. If you think there is logic behind this field provide the information here	Provide the information like This field will appear in all the pages. This will appear only in the first page. This will not appear in first page but will appear on every other page	If the position of this field on Paper is important then specify this measure here along with the unit	Helvetica (H), Times (T) or TH Angsana (A)	Special formatting requirements e.g.: do not display leading zeroes, date format YYYYMMDD	Bold (B), Italics (I), Underlined (U). Also size, such as 10, 11, 12, etc.
	Table : Scree n:							

#### 15.4. Standard Texts (If SAP Scripts)

Description of use	Text Name	Text ID	Error Case
			Describe the logic in case e.g. the standard text particular language is missing

#### 15.5. Text Modules (if Smart Forms)

Description of use	Text Module name	Original language	Translation	Style name	Error Case
		This is the language in	Specify if the text module	This Style	Describe the logic e.g. the text modu

		which the original layout is created. This will be 'EN' (English) in general.	needs to be translated to all languages or to selected languages or does not need to be translated. If a translation is needed then this will be done via transaction code SE63	name will be defined in Smartforms and will contain the Paragraph and character formats needed to output the text modules .	that particular language is missing	

## 15.6. Layout Detail

*< Provide information about how to position the layout set with respect to the page and how to position various items, such as the margins and the position of the logo >*

Position of Left Margin (Specify Unit)	< Position Count from Left>
Position of Right Margin (Specify Unit)	< Position Count from Right>
Position of Logo (Specify Unit)	< Position Of Logo>
Position of Main Window (Specify Unit)	< Position of Main Window>

## 15.7. Technical Details for Developing the Form

*<Data Processing in form after Call Print from in Standard Transaction Code or Customized Transaction Code>*

## 15.8. Smartforms Technical Global Settings

### 1. Form Attributes

< Please describe here the general attributes (Development class, language, translation) and the output options ( Page format (e.g. DINA4), characters per inch (e.g. 10,00), lines per each (e.g. 6,00), Style (e.g. ZRCH0003), etc>

### 2. Form Interface

< Page: 22Please briefly describe here the Import, Export, Tables and Exceptions sections of the function module that will be generated by Smartforms. >

### 3. Global Definitions

< Please briefly describe here the Global data, Types, Field Symbols, Initialization and Form routines sections.  
>

## 15.9. Styles

< Please describe here the Style(s) that need to be created and attached to the development transport request with the SAPscript or the Smartforms. We have two possibilities :  
Styles can be created and maintained via transaction code SE76. They contain the Paragraph and Character formats. They are assigned to Standard Texts.  
Styles can be created and maintained via transaction code SMARTFORMS. They contain the Paragraph and Character formats. They are assigned to Text modules. >

Style name	Style description	Standard settings	Paragraph format	Character format
	e.g. Default style	Indicate the Standard paragraph, the Characters per Inch (e.g. 10,00), the Tab stop (e.g. 1,00 CM), the Lines per Inch (e.g. 6,00) , the Font (Family, size and style), if underlined and/or color.	e.g. P1 (to be detailed in the following table)	e.g. C2 (to be detailed in the following table)

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Paragraph Format	Description	Indents and spacing	Font	Tabs	Numbering and outline	
P1	e.g. Left margin 0.5 with tabs	If needed, specify the alignment (e.g. Left-aligned), the indents (left and right margin), the	Font family (e.g. HELVE), font size (e.g. 8pt), font style (e.g. Bold) , underline, color	If relevant, indicate the top outline paragraph, the numbering type and numerator	If relevant, indicate the top outline paragraph, the numbering type and numerator	
Character format	Description	Standard settings	Font			
Eg C2	e.g. Bold size 8	If needed, indicate the effects (Superscript, Subscript) the barcode (width and height).	Page: 23 Font family (e.g. HELVE), font size (e.g. 8pt), font style (e.g. Bold) , underline, color.			

## 16. Interface

### Process & Involved Applications

General description	
<b>Interface ID<sup>1</sup></b>	
<b>Process description<sup>2</sup></b>	
<b>Business Object<sup>3</sup></b>	
<b>Complexity</b>	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
<b>Process Owner</b>	
Involved Applications	
<b>Source System (Sender)</b>	
<b>Target System (Receiver)</b>	
<b>Scope</b>	<input type="checkbox"/> Core (Interface is part of CokeOne template or copy from the template) <input type="checkbox"/> Local (Interface is not part of the project template / Localization)
<b>Interface type</b>	<input type="checkbox"/> MiddleWare (SAP PI) <input type="checkbox"/> Point to Point

### Technical Requirements

#### General Technical Requirements

General interface properties	
<b>Quality of service</b>	<input type="checkbox"/> Asynchronous without serialization (Exactly Once) <input type="checkbox"/> Asynchronous with serialization (Exactly Once In Order) <input type="checkbox"/> Synchronous (Best Effort)

<sup>1</sup> ID of the interface, should be unique within the project, meaningful prefixes are recommended

<sup>2</sup> Short description of the process context of the interface and the outbound and inbound processing steps

<sup>3</sup> Data object to be exchanged between the specified systems (e.g. Purchase Order...)

## Source System Requirements

Source System	
<b>Type</b>	<input type="checkbox"/> SAP-System <input type="checkbox"/> Non-SAP System
<b>Outbound technology</b>	<p><b>SAP-technologies:</b></p> <input type="checkbox"/> ALE/IDoc <ul style="list-style-type: none"> <li><input type="checkbox"/> SAP Standard</li> <li><input type="checkbox"/> SAP Standard with Enhancement</li> <li><input type="checkbox"/> Customer specific</li> </ul> <input type="checkbox"/> BAPI/RFC <ul style="list-style-type: none"> <li><input type="checkbox"/> SAP Standard</li> <li><input type="checkbox"/> SAP Standard with Enhancement</li> <li><input type="checkbox"/> Customer specific</li> </ul> <input type="checkbox"/> ABAP Proxy <ul style="list-style-type: none"> <li><input type="checkbox"/> SAP Standard</li> <li><input type="checkbox"/> SAP Standard with Enhancement</li> <li><input type="checkbox"/> Customer specific</li> </ul> <input type="checkbox"/> CIF (SAP APO Core Interface) <input type="checkbox"/> BI Extractor <input type="checkbox"/> CRM Middleware
	<p><b>Non-SAP technologies:</b></p> <input type="checkbox"/> JDBC (Java Database Connectivity) <input type="checkbox"/> File/FTP <input type="checkbox"/> HTTP <input type="checkbox"/> SOAP/Web Services <input type="checkbox"/> JMS (Java Messaging System) <input type="checkbox"/> SMTP (Simple Mail Transfer Protocol) <input type="checkbox"/> EDI <input type="checkbox"/> Industry standard protocol (e.g. RosettaNet, CIDX, ...)
	<p><b>Others (e.g. others EAI platforms ...):</b></p>
<b>Trigger Type</b>	<input type="checkbox"/> Online <input type="checkbox"/> Batch
<b>Trigger technology (Optional)</b>	<input type="checkbox"/> ALE message control <input type="checkbox"/> ALE change pointers <input type="checkbox"/> User Exit / BADI <input type="checkbox"/> Customer specific program
	<p><b>Others:</b></p>

## Target System Requirements

Traget System	
Type	<input type="checkbox"/> SAP-System <input type="checkbox"/> Non-SAP System
Inbound technology	<p><b>SAP-technologies:</b></p> <input type="checkbox"/> ALE/IDoc <ul style="list-style-type: none"> <li><input type="checkbox"/> SAP Standard</li> <li><input type="checkbox"/> SAP Standard with Enhancement</li> <li><input type="checkbox"/> Customer specific</li> </ul> <input type="checkbox"/> BAPI/RFC <ul style="list-style-type: none"> <li><input type="checkbox"/> SAP Standard</li> <li><input type="checkbox"/> SAP Standard with Enhancement</li> <li><input type="checkbox"/> Customer specific</li> </ul> <input type="checkbox"/> ABAP Proxy <ul style="list-style-type: none"> <li><input type="checkbox"/> SAP Standard</li> <li><input type="checkbox"/> SAP Standard with Enhancement</li> <li><input type="checkbox"/> Customer specific</li> </ul> <input type="checkbox"/> CIF (SAP APO Core Interface) <input type="checkbox"/> BI Extractor <input type="checkbox"/> CRM Middleware
	<p><b>Non-SAP technologies:</b></p> <input type="checkbox"/> JDBC (Java Database Connectivity) <input type="checkbox"/> File/FTP <input type="checkbox"/> HTTP <input type="checkbox"/> SOAP/Web Services <input type="checkbox"/> JMS (Java Messaging System) <input type="checkbox"/> SMTP (Simple Mail Transfer Protocol) <input type="checkbox"/> EDI <input type="checkbox"/> Industry standard protocol (e.g. RosettaNet, CIDX, ...)
	<p><b>Others (e.g. others EAI platforms ...):</b></p>
Trigger Type	<input type="checkbox"/> Online <input type="checkbox"/> Batch
Trigger technology (Optional)	<input type="checkbox"/> ALE message control <input type="checkbox"/> ALE change pointers <input type="checkbox"/> User Exit / BADI <input type="checkbox"/> Customer specific program
	<p><b>Others:</b></p>

## Performance Requirements

### Message volume

Message volume	
<b>Message size: Number of records</b>	
<b>Message size: Number of fields per record</b>	
<b>Message size in KB (Optional)</b>	
<b>Periodicity</b>	<input type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly <input type="checkbox"/> Bi-weekly  <b>Other:</b>
<b>Frequency: Messages per day</b>	
<b>Frequency: Messages per hour (Peak)</b>	

## Critical Requirements

Critical Requirements	
<b>Criticalness</b>	<input type="checkbox"/> Business critical <input type="checkbox"/> Major impact <input type="checkbox"/> Minor impact <input type="checkbox"/> No impact
Remarks	
List any high level requirements from the business perspective which has implication in technical design. These requirements are critical to business and should be addressed in the technical design.	

For example:

1. Order processing should not take more than 5 seconds
2. Security Requirements: All documents sent to the Payments System should be encrypted.
3. Error Handling : alert e-mail to functional responsible
4. Ordered delivery of series of messages

List any technical requirements of the interface:

## Data Structures and Mapping Requirements

### Message Types

Message Types	
Source Message Type <sup>4</sup>	
Target Message Type <sup>5</sup>	

### Mapping Specification

Mapping specification	
Requirements	<input type="checkbox"/> Structure Mapping required <input type="checkbox"/> Value Mapping required
Link to Mapping specification (Excel Template)	MM XXX-999 Template Mapping Specification v1.0.xls <i>&lt; Attach embedded mapping specification document here &gt;</i>

### 16.1. Systems Diagram

*< This section should contain the functional components data is interfaced between, as well as the direction of data. This should be presented in a systems diagram >*

### 16.2. Interface Details

<b>Interface Type</b>	<input type="checkbox"/> Idoc Interface	Idoc Type: _____
	<input type="checkbox"/> RFC Interface	Message Type: _____ BAPI Call _____

### IDOC Modifications

<sup>4</sup> Message type name, e.g. IDoc type or BAPI name

<sup>5</sup> Message type name, e.g. IDoc type or BAPI name

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*< Complete this section only when the receiving or sending Standard Idoc Structure is required to be modified (i.e. extended or reduced), this is so that only Idoc development requirements are documented here. The table should also be completed to document the exact Idoc type structure of a Customized IDoc >*

SAP Idoc Type:				
SAP Idoc Segment:				
SAP Idoc Extension	(Y/N)			
Field (Business Name)	Required (M/O)	Pos.	Idoc field	
A meaningful SAP field name	Mandatory (M) or optional (O) fields in the Idoc	Position of the field in the Idoc, i.e. first field is '1'; second field is '2' etc	Field Name	Data Element
				Format (Length)

## ALE /EDI Configuration

*< The following tables should be used to document all ALE/EDI configurations. If Configuration exists in more than one SAP system, then the information in the following section should be repeated in multiple tables. >*

Source System & Client or Logical System name	
Partner Profile	
Target System & Client or Logical System Name	
Distribution Model	
Message Type	
Basic IDoc Type	
IDoc Extension	
Business Object / Methods	
Process Code / Function Module	

- Assignment of FM to Logical message and IDoc type

Function Module	FctTyp	BasicTyp	Log mess type
Obj type	Directn	Extension	MsgCode
			MsgFunct

### Characteristics of inbound function modules

Function Module	Input type	Dialog allowed

### Inbound process codes

Process Code	Process Code description

### Link type and serialisation type of message type

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Message type	Serialisation object type	Object type link

Workflow event linkages to be activated

Object type	Event	Receiver type

## Message Mapping

<This is a sample Mapping Table to be used when mapping IDoc types to a flat file, the exact flat file structure must be documented here.

Important remark: if the file below does not cover the requirements for mapping, it is allowed to attach an Excel-sheet, and in that case the table below does not need to be filled. >

IDoc Segment Field Name	Format (Length)	IDoc Segment Field Name	Format (Length)	Req. (M/O)	SAP Field Business Name	Req. (M/O)	IDoc Segment Field Name	Format (Length)	IDoc Segment Field Name	Format (Length)	Req. (M/O)	SAP Field Business Name

## Conversion Rules

< Provide a description for each of the conversion requirements that require coding logic >

Conversion Rule #	Conversion Logic

## 17. Data Conversions

### 17.1. Data Conversions Detailed Description

*< This section should contain a detailed description of the Data Conversion. Describe the program structure and how it processes the data that is to be sent / received. Although complete pseudo code is not necessary, include it in cases where the functionality can be better verified by reading the pseudo code than by reading descriptive text. Please use proper formatting and bulleting in this section to facilitate readability and ease of review. Make use of screenshots of the screens involved in the conversion, as this aids in understanding the underlying functionality clearly. Even in case of function-exits, provide the screenshots of the application / transaction where the function will get triggered. >*

Reference	Field (Business Name)	Business Rules	Comments
	<Conversion Data Field 1>	<List business rule or logic associated with the data>	<blank indicates no change in data>

### 17.2. Import/Export to SAP

*< List the detailed business rules or business logic that apply to each data object, using the reference number in the above table. >*

Source/Target System:	< Source Import / Export System>
Source/Target File Path/File Name or Database:	< Source Import / Export Name>
Source File Type:	< File Type>
File Delimiter:	< Type of Delimiter>
Source File Description:	< Description>

## Import/Export data mapping matrix

<This section should describe the data being input into/output out of SAP.  
If this table is used for Import into SAP it should include any logic or transformation required on the SAP of the data conversion load. The SAP Data relationship diagram Section should be completed to show the relationship of the data. The following table should be completed with all the fields being loaded>

Output File Field name	SAP Table Field Name	IDOC / BI / Loading program field name	Field Desc.	Format (Type and Length)	SAP Default Value	Required (M/O).	SAP Conversion rules / logic	SAP Validation	Check Table for validation

## BDC Conversions

SAP Transaction Code			
Program	Screen	Field Name	Field Value
<Program Name>	<Screen>	<XXXX-YYYY>	<Value Field>

## Technical Details

### Preparation steps

< e.g. When using Idocs, describe which port, partner type, partner function, etc need to be set up.  
e.g. When a new upload program has been developed, then this program needs to be built in LSMW. Describe in this section, the entries required in the SAP tables SXDA0, SXDA1, SXDA2 and SXDA3 >

## Loading Steps within LSMW

### STEP1: Initial Screen

< Give the project name/description, subproject/description and object name/description of the LSMW object.  
>

### STEP 2: Maintain Object Attributes

< Give an overview of the object type and import technique set up in order to upload the data >

### STEP 3: Maintain Source Structures

< Give an overview of the source structures defined within LSMW. >

**STEP 4: Maintain Source Fields***< Give an overview of the source fields >***STEP 5: Maintain Structure Relations**

SAP structures	Source structure
	/

**STEP 6: Maintain field mappings and conversion rules***< Describe the conversion rules required. >***STEP 7: Specify Files***< Give a list of the files needed, together with their properties for: File contents, delimiter, file structure, file type and code page. >***STEP 8: Assign Files***< Assign the respective files defined in Step 7 to the source structures >*

Input files	Source structure

Step 9 Read Data

Step 10 Display read data

Step 11 Convert Data

Step 12 Display converted data

etc.

**Pseudo code for new developments***< In case there is no standard upload program available to upload the data, describe in this section the pseudocode of the upload program that has been developed >*

## 18. User Exits and Enhancements

### 18.1. /SCL/RUSDDSDR\_CICO\_SETTLEMEF01

#### 18.2. User Exit / Enhancement Details

Type of Exit	Function module, Screen or Menu exits
Name of Exit / Business Add-In / Business Transaction Event	Name of user exit, business add-in or business transaction event provided by SAP
Project	
Enhancement	SAP enhancement that contains the exit
SAP Program	Main SAP program where the exit is called from
Function Module	Function Module where the code sits within the user exit
Transactions impacted	Transactions where the user exit is called
Include(s)	SAP program where the exit code will be placed
Screen Number(s)	Relevant for Screen exits
Menu/Path	Relevant for Menu exits

### Data Processing Logic



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## 19. Custom Transactions /Module Pools

### 19.1. Custom Transactions/Module Pools

< This section should contain a detailed description of the Custom Transaction / Module Pool detailed description. This should include a description of the purpose of the transaction, the data flow and screen flow. Any data dictionary read/write logic should be explained from a functional point of view. >

Transaction Code:	
Transaction Description:	
Menu Path:	

### 19.2. Screen Flow

< This section should be used to describe the flow of screens/logic/data. Diagrammatically describe how the development will behave with respect to some user action. (Draw or attach details of screen flow in flow-chart format. See example below). If this Development Specification describes one/multiple development(s) that will be linked to one or more other developments (e.g. custom or standard reports) please draw a diagram to describe the flow between them.

In the diagram, please indicate on the arrows any actions that steer the screen flow, and list and describe them in the 'Screen Flow Event' section >

### Screen Flow Diagram

< In this diagram, give an overview of all the screen required in the transaction, and how they relate to each other. On the arrows that link screens, please provide an 'Event' number. In the paragraph 'Screen flow events', please then give a textual description of these events >

### List of Screens

Screen#	Description

### Screen Flow Events

Action	Description
	Button 'Execute' is pressed on screen 9001 (e.g.)

### 19.3. Screen Number

< Repeat this section (Layout, List of fields..., Error messages) for each of the screens mentioned in the screen flow diagram !!!! Hence Copy the whole section Screen <Screen Number> with all subsections for each of the screens >

## Screen Layout

< This section should be used to give a detailed layout of the screen, including all fields and buttons >

## List of fields or Controls

< In this section, list all fields and buttons on the screen, and indicate their properties >

Field Description	Field Type	SAP Reference Field	I/O	Mand.	Comments

## Logic Before output

< In this section, describe any specific logic required before the screen is displayed (e.g. dynamically determined default value, set/get parameters, ....) >

## Logic After Input

< In this section, describe any logic after the user presses enter or press nay button. (e.g. Get the material text after the user has entered the material number) >

## User Interactions

< In this section, describe any specific knowledge required after the user has performed a specific action (e.g. User double clicks on customer number + user is brought to customer master) >

Action	Outcome

## Error Messages

< In this section, describe any user actions that have to result in an error message >

Error	How error message should be reported	Error message	Corrective Actions

## Data Processing For Screens <Screen Number>

< This section should be used to give a detailed processing description of each of the screens.  
Repeat this section as many times as there are screens!!!! >

## 20. Workflow Developments

### 20.1. Detailed Process Flow

*< Provide detailed description of the process flow indicating specific business requirements and constraints. Add a detailed graphic of the process flow, indicate all events and activities, and list the responsible agents, e.g. >*

### 20.2. Role Activity Diagram/Flow Diagram

*< Provide a high level overview of processing. Create a flow chart using MS-Visio and indicate clearly the start and termination conditions. Document the most important steps in processing. >*

### 20.3. Workflow Definition

#### 3 - Workflow Definitions

Abbreviation: Number:

Name:

Triggering Events:

Object Type: Event:

Start Conditions:

Value:	Operator:	Value:
Value:	Operator:	Value:

Purpose:

#### Workflow Container:

Element	Description	Import	Export	Multiple Values	Mandatory	Dictionary Field	Object Type
		Y/N	Y/N	Y/N	Y/N		

#### Binding Workflow Container /Event Container:

Workflow Container Element		Event Container Element

#### Responsibility Agents:

Task Name	Agent	Deadline	Notification

--	--	--	--

**Steps: (Details of Steps in next section- steps)**

Step	Step Type	Step Description

**Steps**

<Describe the program structure and how it processes the data that is to be sent / received. Although complete pseudo code is not necessary, include it in cases where the functionality can be better verified by reading the pseudo code than by reading descriptive text.

Make use of screenshots of the screens involved in the enhancement, as this aids in understanding the underlying functionality clearly. In case of function-exits, provide the screenshots of the application / transaction where the function will get triggered. >

Step: 0001	Type:
Activity:	
Step Description:	
Event Description:	
Responsibility:	
Deadlines:	
Secondary Methods:	
Exceptions:	
Extras:	
<u>Task Data:</u>	
Task Abbreviation:	Task Number:
Task Description:	
Object Type:	
Method:	
Work Item Text:	
Agent Assignment:	
Background Processing?	
Confirm End of Processing?	
Purpose:	

**20.4. Object Information**

< Name and describe the business objects of the workflow and list their used methods and events >

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1 - Object Information
Object Type:
Description:
Short Description:
Program:
Super Type:
Application:
Purpose:

**Key Fields:**

Element	Description	Short Description	Dictionary Field

**Attributes:**

Element	Description	Source	Virtual/Daatbase	Data Type Reference

**Methods Used:**

Name	Description	Details

**Events Used:**

Name	Description	Short Description

**Methods**

Method Information
Method:
Description:
Short Description:
Dialog? (Y/N)
Synchronous? (Y?N)
Result Parameter? (Y?N)
Result Type:
Dictionary Field:
Instance Independent? (Y/N)
ABAP/4:
Function Module:
Transaction:

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Dialog Module:  
Report:  
Other:  
Purpose:

**Method Parameters:**

Element	Description	Import	Export	Multiple Value	Mandatory (M,O)	Dictionary Field	Object Type
					<M,O>	<SAP Field>	<Type C,I,N,D,P >

## 20.5. Roles

*<Specify the roles that need to be developed**Indicate:**If standard SAP roles can be used to choose the selected agent**If not, describe the role determination processing, and the type of agent (User, Job, Position,...) >*

## 20.6. Deadline Monitoring

Task Name	Deadline Time	Agent	Deadline type

## 20.7. Exception Handling

*<Provide a list of all the conditions on which the Conversion would fail to execute. For each of these cases, mention the error handling mechanism (messages, application log etc.)**Explain the technical implementation details for meeting the security requirements for this Conversion as mentioned in the functional specification. If the functional specification does not provide this information, it may be a good idea to cross-check with the process team regarding this.>*

Exception	Handling

20.8. External Connectivity	
<List and describe the needs for external connectivity (E-mail, MAPI,...)>	
20.9. Technical Details for ABAP Development	
<If any custom Report or transaction etc are developed specify the details of the Development>	

## 21. Portal Design

21.1. Details for Portal Development
<This section provides information relevant to the identified Portal design being requested via this functional specification.>
21.2. SAP Object(s) or Process(es) to be Enhanced:
<List the SAP object(s) or transaction(s) to be enhanced. Include the GUI (Web, BSP, WebDynpro, etc.) to be used for portal display.> .
21.3. Portal Description
<Provide a written description of the functionality that needs to be developed. For portal development, list I-views and pages (new, existing or enhanced) to be used and include navigation information (e.g. side and top menus, etc.).>
21.4. Execution Handling Rules

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<Specify instructions to be followed when errors occur or when any processing occurs outside of the normal process flow.>

## 21.5. Additional Information

<Provide addition information regarding the development item as appropriate.>

## 22. Key Business Test Conditions

Nu. m.	Test Condition	Expected Results
	<Key test conditions>	<Results>

## 23. Open Issues

Num.	Detailed Description	Resolution/Sta tus
<Issue No.>	<Issue Description>	<Status>

## 24. Technical Attributes

Nu m.	Name	Value
	<b>Development Package</b>	<Package>
	<b>SAP Application Area</b>	<Process Area>
	<b>Customer Hierarchy</b>	
	<b>Any Dependencies</b>	

## 25. Transport Details

Nu m.	Transpo rt Type	Transpor t No	SAP Object Name	SAP Object Type	Short Description