

# Sales Customer Average Payment Days Process

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## SEI Templates Functional Specification

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## Table of contents

<b>1</b>	<b>Revision history .....</b>	<b>3</b>
<b>2</b>	<b>Business need .....</b>	<b>3</b>
<b>3</b>	<b>Constraints &amp; restrictions .....</b>	<b>3</b>
<b>4</b>	<b>Technical specification.....</b>	<b>3</b>
4.1	<i>Involved tables/views .....</i>	<i>3</i>
4.2	<i>Links between tables .....</i>	<i>4</i>
4.3	<i>Specific Joins.....</i>	<i>4</i>
4.4	<i>Fields.....</i>	<i>4</i>
4.5	<i>Calculated fields.....</i>	<i>5</i>
4.6	<i>Prompts .....</i>	<i>6</i>
4.7	<i>Notes: .....</i>	<i>6</i>
4.8	<i>Notes: .....</i>	<i>7</i>

## 1 Revision history

Date	Who	Description
2013/06/21	Johann Salas	Document creation

## 2 Business need

The Customer Average Payment Days process provides with useful fields to manipulate data around the payment transactions placed by customers. Statistics such as the amount per transaction group by reference and number of days can be extracted from the Sage ERP X3 databases using this process.

## 3 Constraints & restrictions

- This process is only compatible with Sage ERP X3 V6 and V7.
- Views associated to the process must be created prior installation.
- New prompts associated to the process must be created prior installation.

## 4 Technical specification

### 4.1 Involved tables/views

Element	Alias	Type
GACCDUDATE	GACCDUDATE	Fact Table
BPARTNER	BPARTNER	Table
BPCUSTOMER	BPCUSTOMER	Table
TABCUR	TABCUR	Table
GACCENTRY	GACCENTRY	Table
GTYPACCENT	GTYPACCENT	Table
GACCENTRYD	GACCENTRYD	Table
ZTABCHANGE	ZTABCHANGE	Table
ATEXTRA	ATEXTRA	Table

## 4.2 Links between tables

From Table Name	From Table Alias	Type of Join	Linked Table	Linked Alias	Join
GACCDUDATE	GACCDUDATE	Left	BPARTNER	BPARTNER	GACCDUDATE.BPR_0 = BPARTNER.BPRNUM_0
GACCDUDATE	GACCDUDATE	Left	BPCUSTOMER	BPCUSTOMER	GACCDUDATE.BPR_0 = BPCUSTOMER.BPCNUM_0
GACCDUDATE	GACCDUDATE	Left	TABCUR	TABCUR	GACCDUDATE.CUR_0 = TABCUR.CUR_0
GACCDUDATE	GACCDUDATE	Left	GACCENTRY	GACCENTRY	GACCDUDATE.TYP_0 = GACCENTRY.TYP_0
GACCDUDATE	GACCDUDATE	Left	GACCENTRYD	GACCENTRYD	GACCDUDATE.NUM_0 = GACCENTRYD.NUM_0
GACCENTRYD	GACCENTRYD	Left	ZTABCHANGE	ZTABCHANGE	GACCENTRYD.NUM_0 = ZTABCHANGE.NUM_0
GACCDUDATE	GACCDUDATE	Left	ATEXTRA	ATEXTRA	GACCDUDATE.TYP_0 = ATEXTRA.TYP_0
GACCDUDATE	GACCDUDATE	Left	GTYPACCENT	GTYPACCENT	GACCDUDATE.LIG_0 = GTYPACCENT.LIN_0

## 4.3 Specific Joins

Linked Alias	Linked Field	Operator	Specific Value
ATEXTRA	CODFIC_0	Equal	'GTYPACCENT'
ATEXTRA	ZONE_0	Equal	'DESTRA'
ATEXTRA	LANGUE_0	Equal	@CurrentLang;

## 4.4 Fields

Table	Alias	Field	Description	Type	Prompt
GACCDUDATE	GACCDUDATE	BPR_0	Customer Code	Dimension	Yes
BPARTNER	BPARTNER	BPRNAM_0	Customer Name	Description	No
*SERVER	*SERVER	FLD0000013	Customer-Name	Dimension	No
*SERVER	*SERVER	FLD0000003	Year	Dimension	Yes
*SERVER	*SERVER	FLD0000004	Month	Dimension	Yes
*SERVER	*SERVER	FLD0000008	Day	Dimension	No
GACCENTRYD	GACCENTRYD	ACCDAT_0	Accounting Date	Dimension	No
GACCDUDATE	GACCDUDATE	DUDDAT_0	Due Date	Dimension	No
GACCDUDATE	GACCDUDATE	PAYDAT_0	Payment Date	Dimension	No
GACCDUDATE	GACCDUDATE	NUM_0	Document no.	Dimension	No
*SERVER	*SERVER	FLD0000012	Reference	Dimension	No
GACCDUDATE	GACCDUDATE	TYP_0	Type Code	Dimension	Yes
ATEXTRA	ATEXTRA	TEXTE_0	Type Description	Description	No
GACCDUDATE	GACCDUDATE	CUR_0	Transaction Currency	Dimension	No
*SERVER	*SERVER	FLD0000006	Transaction Amount Total	Measure Calculated	No
*SERVER	*SERVER	FLD0000005	By Due Date Amount Not Due	Measure Calculated	No
*SERVER	*SERVER	FLD0000002	By Due Date Amount 61-90	Measure Calculated	No
*SERVER	*SERVER	FLD0000007	By Invoice Date Amount Not Due	Measure Calculated	No
BPCUSTOMER	BPCUSTOMER	OSTAUZ_0	Credit Limit	Measure	No
*SERVER	*SERVER	FLD0000001	Payments Days	Measure Calculated	No
*SERVER	*SERVER	FLD00000015	Transaction (Global) Amount Total	Measure Calculated	No
*SERVER	*SERVER	FLD00000014	By Due Date (Global) Amount Not Due	Measure Calculated	No
*SERVER	*SERVER	FLD00000011	By Due Date (Global) Amount 61-90	Measure Calculated	No
*SERVER	*SERVER	FLD00000010	By Invoice Date (Global) Amount Not Due	Measure Calculated	No
*SERVER	*SERVER	FLD00000009	Payments (Global) Credit Limit	Measure Calculated	No

#### 4.5 Calculated fields

Field	Description	Type	Prompt	Expression
FLD0000013	Customer-Name	Dimension	No	GACCDUDATE.BPR_0 + '-' + BPARTNER.BPRNAM_0
FLD0000003	Year	Dimension	Yes	YEAR(GACCENTRYD.ACCDAT_0)
FLD0000004	Month	Dimension	Yes	Month(GACCENTRYD.ACCDAT_0)
FLD0000008	Day	Dimension	No	Day(GACCENTRYD.ACCDAT_0)
FLD0000012	Reference	Dimension	No	case when GACCDUDATE.TYP_0 = 'REC' Then GACCENTRY.REF_0 ELSE case when Len(ltrim(GACCENTRY.BPRVCR_0)) > 0 then GACCDUDATE.NUM_0 + ', ' + GACCENTRY.BPRVCR_0 ELSE GACCDUDATE.NUM_0 end end
FLD0000006	Transaction Amount Total	Measure Calculated	No	case when (ascii(GACCENTRYD.MTC_0) > 96 And GACCENTRYD.MTCDATMAX_0 <= Getdate()) THEN (GACCDUDATE.AMTCUR_0 - GACCDUDATE.PAYCUR_0) * GACCDUDATE.SNS_0 else GACCDUDATE.AMTCUR_0 * GACCDUDATE.SNS_0 end
FLD0000005	By Due Date Amount Not Due	Measure Calculated	No	case when (DateDiff ("d", GACCDUDATE.DUDDAT_0 , Getdate()) < 0) then case when (Ascii(GACCENTRYD.MTC_0) > 96 And GACCENTRYD.MTCDATMAX_0 <= Getdate()) THEN (GACCDUDATE.AMTCUR_0 - GACCDUDATE.PAYCUR_0) * GACCDUDATE.SNS_0 else GACCDUDATE.AMTCUR_0 * GACCDUDATE.SNS_0 end else 0 end
FLD0000002	By Due Date Amount 61-90	Measure Calculated	No	case when (DateDiff ("d", GACCDUDATE.DUDDAT_0 , Getdate()) > 60 And DateDiff ("d", GACCDUDATE.DUDDAT_0 , Getdate()) <= 90) then case when (Ascii(GACCENTRYD.MTC_0) > 96 And GACCENTRYD.MTCDATMAX_0 <= Getdate()) THEN (GACCDUDATE.AMTCUR_0 - GACCDUDATE.PAYCUR_0) * GACCDUDATE.SNS_0 else GACCDUDATE.AMTCUR_0 * GACCDUDATE.SNS_0 end else 0 end
FLD0000007	By Invoice Date Amount Not Due	Measure Calculated	No	case when (DateDiff ("d", CASE WHEN GACCENTRY.BPRDATVCR_0 < CAST('19000101' AS DATETIME) THEN GACCENTRY.ACCDAT_0 ELSE GACCENTRY.BPRDATVCR_0 END , Getdate()) < 0) then case when (Ascii(GACCENTRYD.MTC_0) > 96 And GACCENTRYD.MTCDATMAX_0 <= Getdate()) THEN (GACCDUDATE.AMTCUR_0 - GACCDUDATE.PAYCUR_0) * GACCDUDATE.SNS_0 else GACCDUDATE.AMTCUR_0 * GACCDUDATE.SNS_0 end else 0 end
FLD0000001	Payments Days	Measure Calculated	No	case when (Datediff("d", GACCENTRYD.ACCDAT_0,GACCDUDATE.PAYDAT_0)) > 0 then Datediff("d", GACCENTRYD.ACCDAT_0,GACCDUDATE.PAYDAT_0) else 0 end
FLD00000015	Transaction (Global) Amount Total	Measure Calculated	No	case when (ascii(GACCENTRYD.MTC_0) > 96 And GACCENTRYD.MTCDATMAX_0 <= Getdate()) THEN (GACCDUDATE.AMTCUR_0 - GACCDUDATE.PAYCUR_0) * GACCDUDATE.SNS_0*ZTABCHANGE.RAT_0 else GACCDUDATE.AMTCUR_0 * GACCDUDATE.SNS_0*ZTABCHANGE.RAT_0 end
FLD00000014	By Due Date (Global) Amount Not Due	Measure Calculated	No	case when (DateDiff ("d", GACCDUDATE.DUDDAT_0 , Getdate()) < 0) then case when (Ascii(GACCENTRYD.MTC_0) > 96 And GACCENTRYD.MTCDATMAX_0 <= Getdate()) THEN (GACCDUDATE.AMTCUR_0 - GACCDUDATE.PAYCUR_0) * GACCDUDATE.SNS_0*ZTABCHANGE.RAT_0 else GACCDUDATE.AMTCUR_0 * GACCDUDATE.SNS_0*ZTABCHANGE.RAT_0 end else 0 end

FLD00000011	By Due Date (Global) Amount 61-90	Measure Calculated	No	case when (DateDiff ("d", GACCDUDATE.DUDDAT_0 , Getdate())) > 60 And DateDiff ("d", GACCDUDATE.DUDDAT_0 , Getdate()) <= 90) then case when (Ascii(GACCENTRYD.MTC_0) > 96 And GACCENTRYD.MTCDATMAX_0 <= Getdate()) THEN (GACCDUDATE.AMTCUR_0 - GACCDUDATE.PAYCUR_0) * GACCDUDATE.SNS_0*ZTABCHANGE.RAT_0 else GACCDUDATE.AMTCUR_0 * GACCDUDATE.SNS_0*ZTABCHANGE.RAT_0 end else 0 end
FLD00000010	By Invoice Date (Global) Amount Not Due	Measure Calculated	No	case when (DateDiff ("d", CASE WHEN GACCENTRY.BPRDATVCR_0 < CAST('19000101' AS DATETIME) THEN GACCENTRY.ACCDAT_0 ELSE GACCENTRY.BPRDATVCR_0 END , Getdate()) < 0) then case when (Ascii(GACCENTRYD.MTC_0) > 96 And GACCENTRYD.MTCDATMAX_0 <= Getdate()) THEN (GACCDUDATE.AMTCUR_0 - GACCDUDATE.PAYCUR_0) * GACCDUDATE.SNS_0*ZTABCHANGE.RAT_0 else GACCDUDATE.AMTCUR_0 * GACCDUDATE.SNS_0*ZTABCHANGE.RAT_0 end else 0 end
FLD00000009	Payments (Global) Credit Limit	Measure Calculated	No	BPCUSTOMER.OSTAUZ_0*ZTABCHANGE.RAT_0

#### 4.6 Prompts

List of required prompts for this process:

Name
Customer
Year
Month
Document Type

#### 4.7 Notes:

Quantity fields in this process must be handled with caution. They have been summed up in order to appear in grouped lines; however, the values will only be significant if the sums are done on the same units.

When working with data in a multi-company and/or multi-currency data environment, some fine tuning is necessary. The fields containing prices and other numbers that are related to a particular currency are gathered as they are entered at the transaction level. Adjustments may be needed to compare different currencies, such as applying rates to bring all data to the same currency.

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