

SAP CONSULTING Solution

Data Quality in SAP ERP

Master Data Cockpit



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SAP Consulting

Agenda



- 1. The Challenge: Master Data Management**
2. Our Business Solution
3. Rules and Routines
4. Selection Screen
5. Result

Companies encounter following problems:

- The data quality is often too low and confusing
- Consistent standards are scarcely to verify
- Mistakes and inaccuracies lead to inconsistency
- Obsolete data remains undetected

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Questions and answers about SAP's Master Data Cockpit:

- Which prerequisites must be fulfilled by the customer?
 - Use of SAP R/3

- Which advantages does the SAP Master Data Cockpit offer?
 - Improvement of data quality
 - Attainment of consistent systems
 - Identification of mistakes in master data
 - Individualized inspection rules

- Is the Master Data Cockpit a modification?
 - It is an add-on tool and not a modification.

- Is there any customizing necessary to use the Master Data Cockpit?
 - No, there are no customer-specific adjustments necessary.

- How time-consuming is the installation?
 - The consulting solution will be installed within one day and is available immediately .

- How much does the Master Data Cockpit cost?
 - Please send an inquiry to Marc Hoppe.



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Rules and Routines – Definition

Master Data Cockpit - Rules & Routines

Rules Routines

Database

Table field

I. Choose a field value from database

Field value

II. Or Choose an operator and value

Operator

Value

III. Or Choose a filled or an empty field

Field filled? Yes No

Save rule:

Master Data Cockpit - Rules & Routines

Rules Routines

Rule

and or xor

Rule

and or xor

Rule

Save routine:

Connection of rules to routines

- One routine consists of at least one rule
- Connection with the operators “and”, “or”, “xor” possible

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Selection Screen – Parameters



Master Data Cockpit - Selection & Inspection

Base Rules & Routines Result

Material	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	
Individual Material Group	<input type="text"/>	to	<input type="text"/>	
MRP Controller	<input type="text"/>	to	<input type="text"/>	
Prodn Supervisor	<input type="text"/>	to	<input type="text"/>	
Plant-sp.matl status	<input type="text"/>	to	<input type="text"/>	
Purchasing Group	<input type="text"/>	to	<input type="text"/>	
Plant	<input type="text"/>	to	<input type="text"/>	
Storage Location	<input type="text"/>	to	<input type="text"/>	
X-distr.chain status	<input type="text"/>	to	<input type="text"/>	
Material Type	<input type="text"/>	to	<input type="text"/>	
Material Group	<input type="text"/>	to	<input type="text"/>	
Division	<input type="text"/>	to	<input type="text"/>	
Sales Organization	<input type="text"/>	to	<input type="text"/>	
Distribution Channel	<input type="text"/>	to	<input type="text"/>	
Purch. Organization	<input type="text"/>	to	<input type="text"/>	

Master Data Cockpit - Selection & Inspection

Base Rules & Routines Result

Determin the scope

Routine

and or xor



Routine

- Choice of defined routines
- Connection of two routines with the operators “and”, “or”, “xor” possible

Selection Screen – Result Management



Master Data Cockpit - Selection & Inspection

Base Rules & Routines **Result**

Perform Inspection

- Show Result
- Save Inspection

Description

Get saved result from database

Delete result from database

Database Key	<input type="text"/>	to	<input type="text"/>
User Name	<input type="text"/>	to	<input type="text"/>
Date	<input type="text"/>	to	<input type="text"/>
Time	<input type="text" value="00:00:00"/>	to	<input type="text" value="00:00:00"/>

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Master Data Cockpit - Inspection Overview

Inspection Statistic		Information	Key Figure										
<ul style="list-style-type: none"> ✗ Inspection ✗ 1. Routine 00900 <ul style="list-style-type: none"> ✓ 325 ✗ 260 ⚠ 14 ✗ 2. Rule 00901 <ul style="list-style-type: none"> ✓ 260 ✗ 339 ⚠ 0 ✗ 3. Rule 00902 <ul style="list-style-type: none"> ✓ 0 ✗ 599 ⚠ 0 		00900	Date	Time	Database Key	ATC	APC	AFC	ACC	AIC	AIQ	RIQ	ICQ
		Rule 00900 AND Rule 00901 OR Rule 00...	07.02.2012	16:18:34	Inspection	599	585	14		585	0,00	0	0,98

Material	Material Description	Plant	Resub.Dat.	Resub.Flg.	Open.Meas.	MRP Cont.	Stor. Loc.	Pr.Superv.	MatlStatus	POrg	PGr	X-distr.chain status	Matl Type	Matl Gro..	Division	Sales Org.	Distr. Chl	Inspection
P-100	Pump PRECISION 100	3000				001	0001			3000			FERT	001	01	1000	10	✗
P-100	Pump PRECISION 100	3000				001	0001			3000			FERT	001	01	2300	10	✗
P-100	Pump PRECISION 100	3000				001	0001			3000			FERT	001	01	2400	10	✗
P-100	Pump PRECISION 100	3000				001	0001			3000			FERT	001	01	2500	10	✗
P-100	Pump PRECISION 100	3000				001	0001			3000			FERT	001	01	3000	10	✗
P-100	Pump PRECISION 100	3000				001	0002			3000			FERT	001	01	1000	10	✗
P-100	Pump PRECISION 100	3000				001	0002			3000			FERT	001	01	2300	10	✗
P-100	Pump PRECISION 100	3000				001	0002			3000			FERT	001	01	2400	10	✗
P-100	Pump PRECISION 100	3000				001	0002			3000			FERT	001	01	2500	10	✗
P-100	Pump PRECISION 100	3000				001	0002			3000			FERT	001	01	3000	10	✗
P-101	Pump PRECISION 101	3000	18.08.2011	✓		001	0001			3000			FERT	001	01	1000	10	✗
P-101	Pump PRECISION 101	3000	18.08.2011	✓		001	0001			3000			FERT	001	01	2300	10	✗
P-101	Pump PRECISION 101	3000	18.08.2011	✓		001	0001			3000			FERT	001	01	2400	10	✗
P-101	Pump PRECISION 101	3000	18.08.2011	✓		001	0001			3000			FERT	001	01	2500	10	✗

Result – Overview



Material	Material Description	Plant	Resub.Dat.	Resub.Flg.	Open.Meas.	MRP Cont.	Stor. Loc.	Pr.Superv.	MatlStatus	POrg	PGr	X-distr.chain status	Matl Type	Matl Gro...	Division	Sales Org.	Distr. Chl	Inspection
P-100	Pump PRECISION 100	3000		<input type="checkbox"/>	<input type="checkbox"/>	001	0001			3000			FERT	001	01	1000	10	✘
P-100	Pump PRECISION 100	3000		<input type="checkbox"/>	<input type="checkbox"/>	001	0001			3000			FERT	001	01	2300	10	✘
P-100	Pump PRECISION 100	3000		<input type="checkbox"/>	<input type="checkbox"/>	001	0001			3000			FERT	001	01	2400	10	✘
P-100	Pump PRECISION 100	3000		<input type="checkbox"/>	<input type="checkbox"/>	001	0001			3000			FERT	001	01	2500	10	✘
P-100	Pump PRECISION 100	3000		<input type="checkbox"/>	<input type="checkbox"/>	001	0001			3000			FERT	001	01	3000	10	✘
P-100	Pump PRECISION 100	3000		<input type="checkbox"/>	<input type="checkbox"/>	001	0002			3000			FERT	001	01	1000	10	✘
P-100	Pump PRECISION 100	3000		<input type="checkbox"/>	<input type="checkbox"/>	001	0002			3000			FERT	001	01	2300	10	✘
P-100	Pump PRECISION 100	3000		<input type="checkbox"/>	<input type="checkbox"/>	001	0002			3000			FERT	001	01	2400	10	✘
P-100	Pump PRECISION 100	3000		<input type="checkbox"/>	<input type="checkbox"/>	001	0002			3000			FERT	001	01	2500	10	✘
P-100	Pump PRECISION 100	3000		<input type="checkbox"/>	<input type="checkbox"/>	001	0002			3000			FERT	001	01	3000	10	✘
P-101	Pump PRECISION 101	3000	18.08.2011	<input checked="" type="checkbox"/>	<input type="checkbox"/>	001	0001			3000			FERT	001	01	1000	10	✘
P-101	Pump PRECISION 101	3000	18.08.2011	<input checked="" type="checkbox"/>	<input type="checkbox"/>	001	0001			3000			FERT	001	01	2300	10	✘
P-101	Pump PRECISION 101	3000	18.08.2011	<input checked="" type="checkbox"/>	<input type="checkbox"/>	001	0001			3000			FERT	001	01	2400	10	✘

- Display of all datasets resulting from the selection parameters and the table fields of used rules
- The result of inspection for each dataset is shown in the last column, graphically displayed



- 1 Information for each used routine and rule
- 2 Quantity of correct, incorrect, and failure datasets per rule
- 3 An icon represents the result of inspection for every instance:
→ rules, routines, inspection

Statistics	Information
✘ Inspection	Routine 00999 AND Routine 00900
✓ 1. Routine 00999	Rule 00999
✓ Rule 00999	MARD WERKS < Z
<ul style="list-style-type: none"> ✓ 5512 ✘ 0 ⚠ 0 	Result of 1. Rule
✘ 2. Routine 00900	Rule 00900 AND Rule 00901 OR Rule 00902
✘ Rule 00900	MARC MATNR < P900
<ul style="list-style-type: none"> ✓ 3465 ✘ 2047 ⚠ 0 	Result of 2. Rule
✘ Rule 00901	MARC MATNR > P900
<ul style="list-style-type: none"> ✓ 2047 ✘ 3465 ⚠ 0 	Result of 3. Rule
✘ Rule 00902	MARC MATNR = P900
<ul style="list-style-type: none"> ✓ ✘ 5512 ⚠ 0 	Result of 4. Rule

3

1

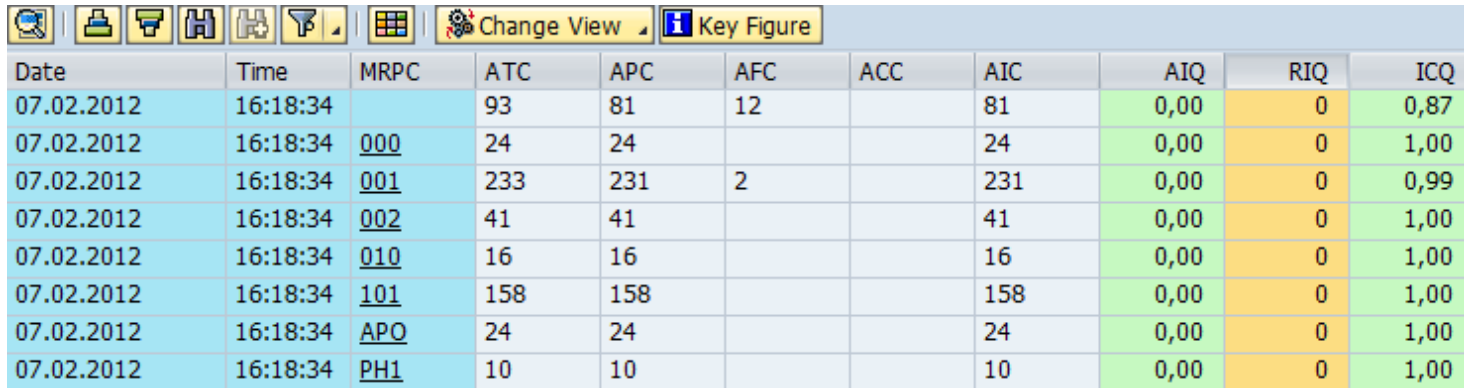
2

Result – Key Figures & Views I

Date	Time	Database Key	ATC	APC	AFC	ACC	AIC	AIQ	RIQ	ICQ
07.02.2012	16:18:34	<u>Inspection</u>	599	585	14		585	0,00	0	0,98

- Key figures for scaling the data quality

Key Figure	Description	Calculation
ATC	All Tested Candidates	
APC	All Proofed Candidates	
AFC	All Failed Candidates	
ACC	All Correct Candidates	
AIC	All Incorrect Candidates	
AIQ	Absolute Inspection Quota	$AIQ = ACC / ATC$
RIQ	Relative Inspection Quota	$RIQ = ACC / APC$
ICQ	Inspection Coverage Quota	$ICQ = APC / ATC$



The image shows a screenshot of an SAP Key Figure table. At the top, there is a toolbar with icons for search, print, filter, and view options. A 'Change View' dropdown menu is open, showing 'Key Figure' as the selected option. Below the toolbar is a table with 11 columns: Date, Time, MRPC, ATC, APC, AFC, ACC, AIC, AIQ, RIQ, and ICQ. The table contains 8 rows of data, each representing a different characteristic (MRPC) and its corresponding key figures.

Date	Time	MRPC	ATC	APC	AFC	ACC	AIC	AIQ	RIQ	ICQ
07.02.2012	16:18:34		93	81	12		81	0,00	0	0,87
07.02.2012	16:18:34	<u>000</u>	24	24			24	0,00	0	1,00
07.02.2012	16:18:34	<u>001</u>	233	231	2		231	0,00	0	0,99
07.02.2012	16:18:34	<u>002</u>	41	41			41	0,00	0	1,00
07.02.2012	16:18:34	<u>010</u>	16	16			16	0,00	0	1,00
07.02.2012	16:18:34	<u>101</u>	158	158			158	0,00	0	1,00
07.02.2012	16:18:34	<u>AP0</u>	24	24			24	0,00	0	1,00
07.02.2012	16:18:34	<u>PH1</u>	10	10			10	0,00	0	1,00

- Different views/aggregations possible
- Calculation of key figures for each characteristic of chosen parameter

Where can I get more information on SCM CS?

Go to SAP service marketplace and search for note 1493943!

Or ask for more information:

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Thank you!

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