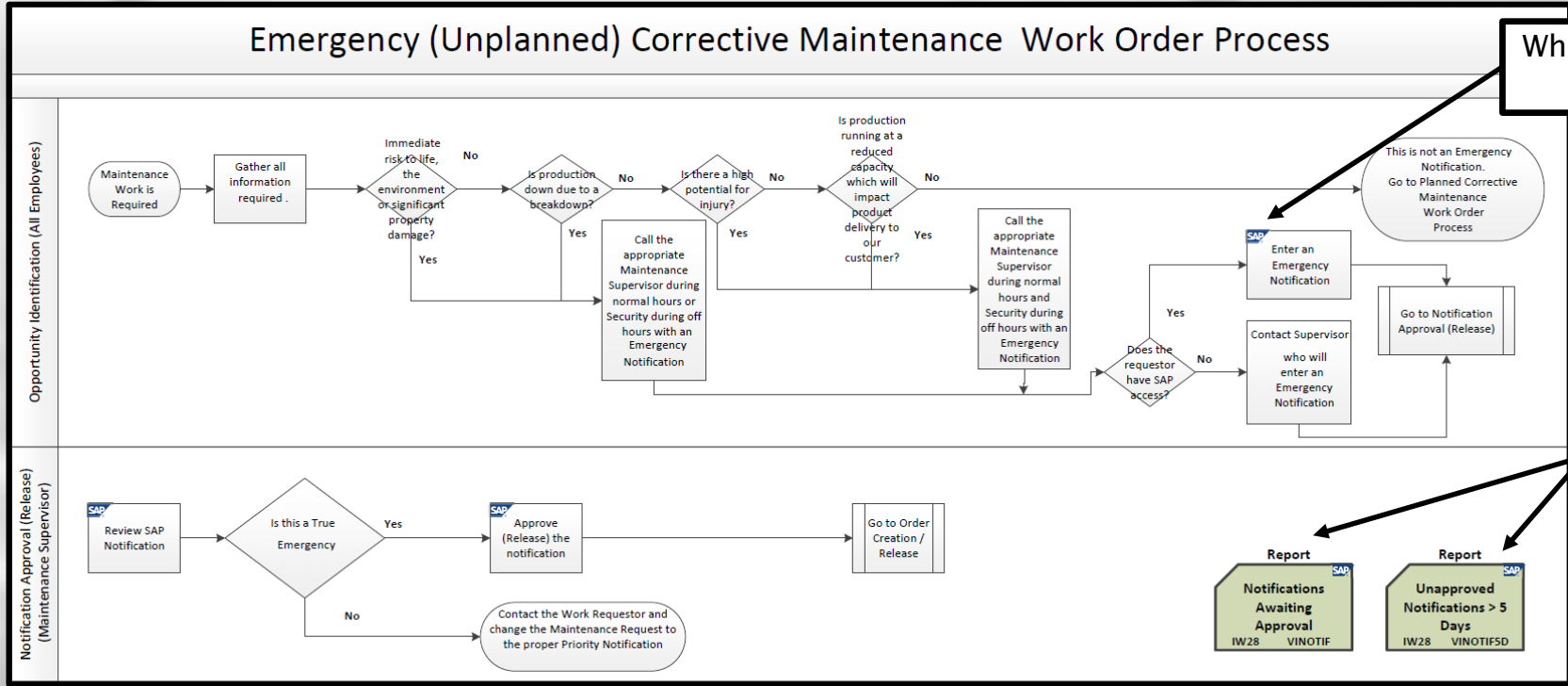


SAP PM Optimization Detail



Business Process Alignment with SAP PM

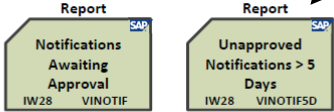
RSI would work with the customer to ensure that all of the Maintenance Business Processes are clearly aligned with their SAP PM implementation



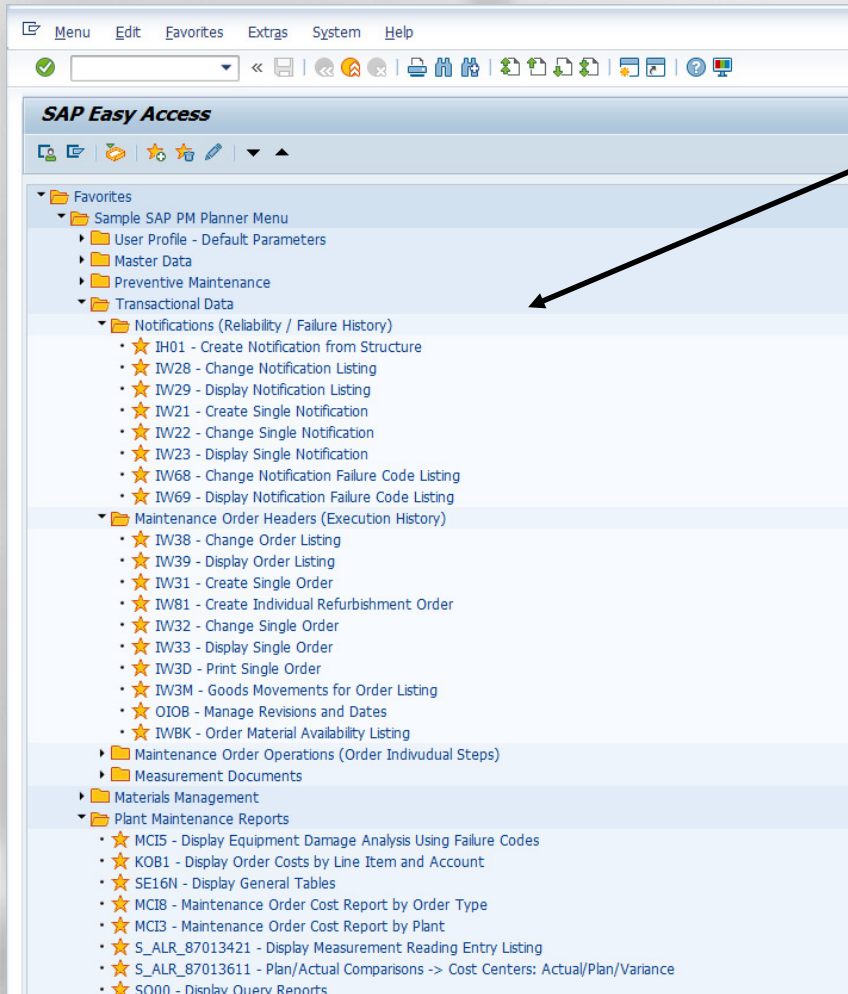
What Process Steps involve SAP PM?

What SAP PM Reports (and Variants) display Order Statuses or Performance Metrics?

Who is responsible for these actions and decisions?



SAP PM Basic Navigation Support



Clear Navigational Tools are needed as a basic starting point for every SAP PM user. Either as a well laid out Favorites or User Menu.

There does exist other bolt on Tools to support more Navigation efficient Navigation and Data Entry, notably from SAP Personas, or other third party developers. RSI feels strongly that these tools can indeed offer much value to SAP PM users and we can offer a very common sense approach to SAP PM Navigation and Data Entry using these tools.



SAP PM Reporting Mapping

SAP PM Processing

SAP PM Processing

It is vital that there exists a well planned, designed and documented Reporting Structure in SAP PM. If not, this structure can be developed.

Notifications
System Variants
Status Reports
Status Performance
Cost Reports
Cost Performance
Health Metrics

Orders
System Variants
Status Reports
Status Performance
Cost Reports
Cost Performance
Health Metrics

Confirmations
System Variants
Status Reports
Status Performance
Cost Reports
Cost Performance
Health Metrics

For each element, define in detail the Report:

- Transactions
- Selection Variants
- Display Variants

Func Locations
System Variants
Status Reports
Status Performance
Cost Reports
Cost Performance
Health Metrics

Work Centers
System Variants
Status Reports
Status Performance
Cost Reports
Cost Performance
Health Metrics

Maint Plans
System Variants
Status Reports
Status Performance
Cost Reports
Cost Performance
Health Metrics

Equipment
System Variants
Status Reports
Status Performance
Cost Reports
Cost Performance
Health Metrics

Bills of Mat
System Variants
Status Reports
Status Performance
Cost Reports
Cost Performance
Health Metrics

Task Lists
System Variants
Status Reports
Status Performance
Cost Reports
Cost Performance
Health Metrics



Order Reporting Map

For each element, define in detail the Report:

- Transactions
- Selection Variants
- Display Variants

Report Category	Transaction	Query	Selection Variant	Display Variant	Report Name
Transaction Templates	IW39		SAP_TCODE_IW39	/ORTT01	System Selection Variant - IW39/IW38
	IW49		SAP_TCODE_IW49	/OPTT01	System Selection Variant - IW49/IW37
	IW49N		SAP_TCODE\$IW49	/OOTT01	System Selection Variant - IW49N/IW37N
	IW3M		SAP_TCODE_IW3M	/OPTT02	System Selection Variant - IW3M
	IWBK		SAP_TCODE_IWBK	/OPTT03	System Selection Variant - IWBK
Status	IW39		ORSTSTAT	/ORST01	Orders by Status
	IW39		ORSTPLAN	/ORST01	Orders in Planning
	IW39		ORSTRELD	/ORST01	Orders Released Awaiting Scheduling
	IW39		ORSTSCHD	/ORST01	Orders Scheduled
	IW39		ORSTPCNF	/ORST01	Order Execution in Progress
	IW39		ORSTSFCNF	/ORST01	Orders Final Confirmed
	IW39		ORSTREJT	/ORST01	Orders Rejected
	IW39		ORSTTECO	/ORST01	Orders Technically Complete
	IW39		ORSTCLSD	/ORST01	Orders Business Closed
	IW49		OPSTPLAN	/OPST01	Orders in Planning
	IW49		OPSTRELD	/OPST01	Operations Released Awaiting Scheduling
	IW49		OPSTSCHED	/OPST01	Operations Scheduled
	IW49		OPSTPCNF	/OPST01	Operations Execution in Progress
	IW49		OPSTFCNF	/OPST01	Operations Final Confirmed



Query Development

Many times Custom Reports can be developed using the SAP Query Tool that reduce the development time as well as the need for custom coding. RSI can develop Query Reports that can ultimately be transitioned to SAP Transactions.

VIAUFSK : Generated Table for View

Technical Nam	Long Text
PDAT3	Planned closing date
IDAT1	Release date
IDAT2	Technical completion date
IDAT3	Close date
OBJID	Object ID
VOGRP	Group of disallowed transactions
LOEKZ	Deletion flag
PLGKZ	Identifier for planning with line item
KVEWE	Usage of the condition table
KAPPL	Application
KALSM	Costing Sheet
ZSCHL	Overhead key
ABKRS	Processing group
KSTAR	Settlement cost element
KOSTL	Cost Center
SAKNR	G/L account for basic settlement
SETNM	Allocation set
CYCLE	Cost center to which costs are act
SDATE	Start Date
SEONR	Sequence number
OBJNR	Object number
PRCTR	Profit Center
VNAME	Joint venture
RECID	Recovery Indicator
ETYP	Equity type
PSPEL	Work breakdown structure elemen
AWSL5	Variance Key
ABGSL	Results Analysis Key
TPLNR	Functional Location
ABCKZ	ABC indicator for technical object
EQFNR	Sort field
SWERK	Maintenance plant
STORT ILOA	Location of maintenance object
MSGRP	Room
BEBER	Plant section
CR OBJTY	Object types of the CIM resource
PPSID	Object ID of PP work center
GSBER ILOA	Business Area
KOKRS ILOA	Controlling Area
PROID	Work Breakdown Structure Eleme
BUKRS ILOA	Company Code
ANLNR	Main Asset Number
ANLN	Asset Subnumber
DAUPN	Standing order number
AUFNR ILOA	Settlement order
GLTRP	Basic finish date
GSTRP	Basic Start Date

EQUI : Equipment master data

Technical Name	Long Text
EOUNR	Equipment Number
ERDAT	Date on Which Record Was
ERNAM	Name of Person Who Crea
EOASP	Language in Which the Pie
AEDAT	Date of Last Change
AENAM	Name of person who chan
BEKUN	Technical object authorizat
EOTYP	Equipment category
EOART	Type of Technical Object

COSP : CO Object Cost Totals for External Postin

Technical N	Long Text
LEDNR	Ledger for Controlling objects
OBJNR	Object number
GJAHR	Fiscal Year
WRTPP	Value Type
VERSN	Version
KSTAR	Cost Element
HRKFT	CO key subnumber
VRNG	CO Business Transaction
VBUND	Company ID of trading partner

COSS : CO Object Cost Totals for Internal Postin

Technical N	Long Text
LEDNR	Ledger for Controlling objects
OBJNR	Object number
GJAHR	Fiscal Year
WRTPP	Value Type
VERSN	Version
KSTAR	Cost Element
HRKFT	CO key subnumber
VRNG	CO Business Transaction
PAROB	Partner Object

VIQMEI : Generated Table for View

Technical Name	Long Text
OMNUM	Notification No
IWERK	Maintenance Planning Plant
ILOAN	Location and account assign
ILOAI	ILOA Individual
EOUNR	Equipment Number
BAUTL	Assembly
EBORT	Installation Point for Subite
MSAUS	Breakdown Indicator
AUSVN	Start of Malfunction (Date)

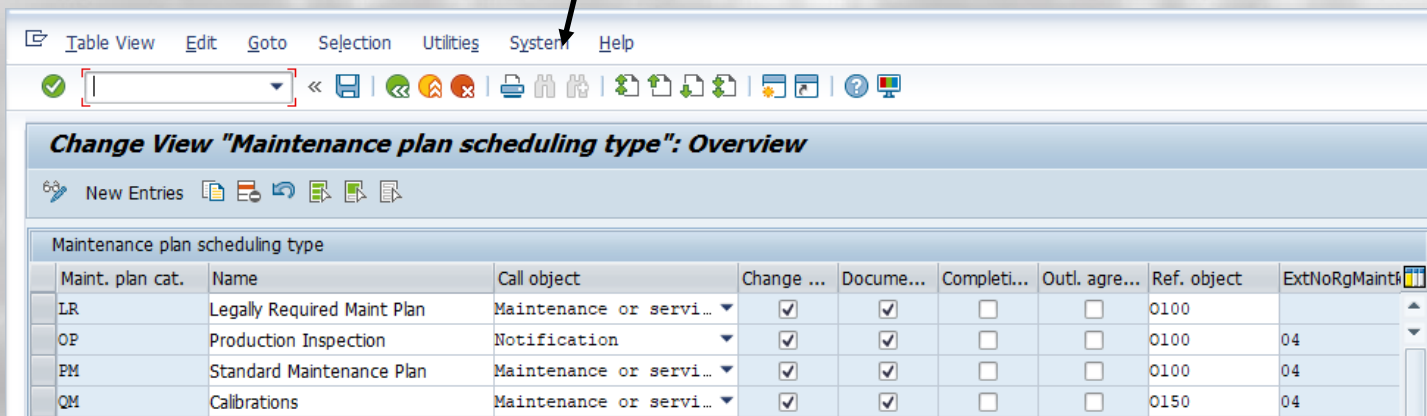
RSI Equipment Reliability Cost Report

Object Type	Criticality	Equipment	Equipment Description	Maint Type	Type	Order	Order Short Text	Notification	Notification Short Text	Effect on Operation	Material Cost (\$)	Labor Cost (\$)	Prod DT	Prod Loss (\$)	Total Impact (\$)
Conveyor											2,207.54	32,627.50	13.02	57,526.00	92,361.04
3-Medium		10000010	18" Belt Conveyor	Planned Corrective	ZM01	10000024	Replace Belt	10000013	Belt is Torn	Prod Rate = 0 (Downtime)	1,545.00	3,300.00	6.56	32,144.00	36,989.00
3-Medium		10000025	Tighten Belt	Planned Corrective				10000014	Belt is Slipping	Prod Rate Not Impacted	12.56	412.50	0.00		425.06
Gearbox											456.23	3,850.00	1.25	3,062.50	7,368.73
2-Med High		10000009	Gearbox	Planned Corrective	ZM01	10000027	Replace High Speed Pinion	10000016	Gearbox Making Noise	Prod Rate Restricted (Slowback)	456.23	3,850.00	1.25	3,062.50	7,368.73
Instrument											0.00	2,700.00	0.00		2,700.00
3-Medium		40000001	Actuator	Preventive / Predictive	ZM08	80000016	Baling Actuator Calibration	80000016	Baling Actuator Calibration		0.00	900.00	0.00		900.00
3-Medium		40000002	Pressure Transmitter	Preventive / Predictive		80000017	Water Pressure Trans Calibration	80000017	Water Pressure Trans Calibration		0.00	900.00	0.00		900.00
3-Medium		40000004	Actuator	Preventive / Predictive		80000015	Plant Water Valve Actuator Calibration	80000015	Plant Water Valve Actuator Calibration		0.00	900.00	0.00		900.00
Pump											0.00	7,095.00	1.31	3,209.50	10,304.50
2-Med High		10000001	Goulds 3298 Pump	Planned Corrective	ZM01	10000026	Clean out Pump Intake	10000015	Pump is Cavitating	Prod Rate Restricted (Slowback)	0.00	577.50	1.31	3,209.50	3,787.00
2-Med High				Preventive / Predictive	ZM08	80000007	Styrene Unloading Pump RINSP	80000007	Styrene Unloading Pump RINSP		0.00	962.50	0.00		962.50
2-Med High		10000018		Preventive / Predictive		80000008	Butadiene Unloading Pump RINSP	80000008	Butadiene Unloading Pump RINSP		0.00	1,925.00	0.00		1,925.00
1-High		10000021		Preventive / Predictive		80000009	Primary Pump RINSP	80000009	Primary Pump RINSP		0.00	1,980.00	0.00		1,980.00
2-Med High		10000022		Preventive / Predictive		80000010	Secondary Pump RINSP	80000010	Secondary Pump RINSP		0.00	1,650.00	0.00		1,650.00
Tank											121.11	605.00	0.00		726.11
1-High		20000000	Fire Water Storage Tank	Planned Corrective	ZM01	10000028	Replace Tank Access Door Gasket	10000017	Tank Access Door is Leaking		121.11	605.00	0.00		726.11
VF Drive											72.64	14,665.00	3.90	19,110.00	33,847.64
1-High		10000003	Siemens PM240-2 VFD	Emergency Corrective	ZM00	100023	Replace Braking Resistor	100013	Replace Braking Resistor	Prod Rate = 0 (Downtime)	72.64	7,975.00	3.90	19,110.00	27,157.64
1-High				Preventive / Predictive	ZM08	80000011	Styrene Unloading VFD RINSP	80000011	Styrene Unloading VFD RINSP		0.00	2,400.00	0.00		2,400.00
1-High		10000020		Preventive / Predictive		80000012	Butadiene VFD RINSP	80000012	Butadiene VFD RINSP		0.00	1,950.00	0.00		1,950.00
2-Med High		10000023		Preventive / Predictive		80000013	Primary Pimp VFD RINSP	80000013	Primary Pimp VFD RINSP		0.00	1,140.00	0.00		1,140.00
2-Med High		10000024		Preventive / Predictive		80000014	Secondary Pump VFD RINSP	80000014	Secondary Pump VFD RINSP		0.00	1,200.00	0.00		1,200.00



Configuration Change

There do exist opportunities that require a change in the SAP PM Configuration for the Customer. RSI is well versed in the SAP PM Configuration Table, and can provide instruction, execution, and testing for configuration changes.



The screenshot shows the SAP Change View for 'Maintenance plan scheduling type'. The table below lists the configuration data:

Maint. plan cat.	Name	Call object	Change ...	Docume...	Completi...	Outl. agre...	Ref. object	ExtNoRgMaintk
LR	Legally Required Maint Plan	Maintenance or servi...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0100	
OP	Production Inspection	Notification	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0100	04
EM	Standard Maintenance Plan	Maintenance or servi...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0100	04
QM	Calibrations	Maintenance or servi...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0150	04



Reliability Solutions, Inc.

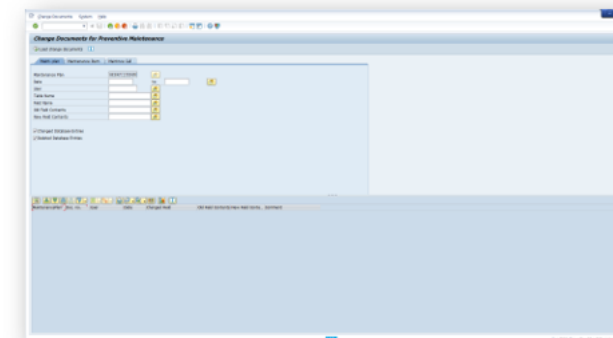
Igniting Reliability with an SAP Spark!

Example SAP PM Configuration Change Request

Project: Add Change Documents to Maintenance Plans – RSI-PM-002

Current Opportunity

A Key Task associated with the Preventive Maintenance Improvement Process is to be able to track modifications to the Maintenance Plans. At present, changes to Maintenance Plans are not being recorded.



Present Production Client Configuration

SAP, by Maintenance Plan Category, does allow Change Documents when configured, but present Production Client Configuration does not enable Maintenance Plan Change Documents as shown below.

