Job Monitoring Setup with SAP Solution Manager 7.1 SP 10

December 2013





Business Scenario



Business Scenario

The new unified Job Monitoring allows you to monitor all the business-critical background jobs such as ABAP jobs and BW process chains, centrally. In job monitoring concept, you refer the ABAP jobs and BW process chains as monitored objects. You configure these monitored objects in a technical scenario or a business process solution.

You monitor the objects based on:

- attributes such as job owner, job name, start time
- time intervals

The following metrics indicate the health of the monitored object:

- · Object status Failed, Active, Cancelled, Released
- · Scheduling metrics schedule start time, start delay, end time, duration, out of time window
- Job log messages
- Job log content

By setting threshold values for each metric

Automatic notification or support message generation conditions

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Prerequisites



Version Prerequisites and Managed System Configuration

You are using SAP NetWeaver BW 7.0 or higher for BW process chains

You have implemented any additional SAP Notes that are required for SAP Solution Manager 7.1 SP 10

For other job monitoring specific system prerequisites, refer the SAP Note **1909902**

Architecture



Job Monitoring



Job Monitoring

Architecture, Job Data Collection Logic



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Entry points to Job Monitoring Configuration

Technical Monitoring -> Job & BI Monitoring (transaction code SOLMAN_SETUP)

• By creating a technical Job monitoring scenario



Business Process Monitoring -> Business Process Monitoring (New)

By assigning monitoring objects to a business context

Bus	Business Process Monitoring Setup											
Close	Refresh									Page	Business Proces	s Monitoring Se
	 BPMon Solution 	۵										
	 Logical Components 											
	 Business Scenarios 				Manitaring Objects (4)	- Decumente	liana (0) Manitaria	Dequirements	(0)			
	 Sales 			4	Monitoring Objects (1) J	ob Documenta	nons (U) Monitoring) Requirements	s (U)			
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	 Check Availability [Z_QPT] 			E	s Monitoring Object	Monitor	Logical Component	System ID	Client	No. of Assigned Contexts	INO. OF Children	Status
	 Run MRP [ZBPCA_ST7] 			-	MRP_4_BPMON_JOBMON	ABAP JOD	ZBPCA_S17	\$17	200	1		Activated
	 Create Outbound Delivery 											1
	 Post Good Issues [Z_SQ7] 											
	 Create Billing Document [
	 Monitoring Object List 											
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Configuration – Entry through Technical Monitoring Configuration



Precondition Checks and Managed System Preparation

- Step 2 Configure Infrastructure covers the sub-steps required to prepare the managed systems to be included in the Job monitoring scenario, and generic preparation steps for enabling the monitoring infrastructure within Solution Manager.
- Step 2.1 Check Prerequisites includes infrastructure prerequisites check that automatically detects the missing steps in general infrastructure setup (e.g. not yet executed Basic Setup of Solution Manager).
 - Execute this automatic check and follow-up on potentially missing basic setup steps (this includes especially the version of the ST-A/PI ABAP addon within the monitored SAP BW systems as well as a patch for the BO server system if the BO system version is below 4.0 SP2)



Content Customization Adjustments (optional)

• Step 2.2 Configure Manually – You can ignore all activities that are marked as(optional).

 The remaining activity "Content Customization" allows you to adjust the alert reporting output format. Typically this is also not required to be changed. This step is identical for all monitoring scenario types and not specific to Job monitoring. Therefore it is not explained in full detail here.

SAP Solution Manager Configuration: Technical Monitoring - Job & BI Monitoring Personalize							
↓ 	▶ Overview ▼ Job Monitoring ▶ BI Monitoring						
Overview	Technical System SD7~ABAP~200 User Name LVA Create Support Mes	age					
System Preparation	X X X						
Basic Configuration	1 Overview 2 Configure 2.1 Check 2.2 Configure 2.3 Default Settings 2.4 Workmode 2.5 Update Content						
Managed Systems Configura	v Prerequisites Manually Settings 7						
SAP IT Infrastructure Manag	Edit						
EarlyWatch Alert Management	Help						
Technical Monitoring		•					
IT Service Management	In this step, you perform manual activities for the configuration of the Technical Monitoring infrastructure:						
Change Request Management	1. The activities are displayed in the table Manual Activities. To display the Documentation for the activities, choose Display in the corresponding row.						
Business Process Monitoring	 To perform the activity, choose the link in the column Navigation. After you have performed the activity change the Execution Status to Performed and choose Save. 						
Business Process Change A							
Measurement Platform Set Up	Note: Not all of these configuration activities are required. Some of them provide advanced configuration options. The activity type tells you whether you have to perform the step.						
Data Volume Management							

Default Settings for Alert Reaction

 Step 2.3 Default Settings –allows to customize general behavior on how to react on alerts produced within any monitoring scenario.

- You can enable automatic creation of incidents and notifications and define the channels and persons to be informed via notifications.
- This customization is not specific to the Job monitoring configuration and therefore not explained in detail here.

SAP Solution Ma	nager Configuration: Technical Monitoring - Job & BI Monitoring	Personaliz					
↓ 	→ Overview ▼ Job Monitoring → BI Monitoring						
Overview	Technical System SD7-ABAP-200 User Name LVA	Create Support Messa					
System Preparation	· · · · · · · · · · · · · · · · · · ·						
Basic Configuration	1 Overview 2 configure 2.1 Check 2.2 Configure 2.3 Default Settings 2.4 Workmode 2.5 Update Content						
Managed Systems Configura	v Prerequisites Manualy Settings n						
SAP IT Infrastructure Manag	Edt 4 Previous Next b Save Reset						
EarlyWatch Alert Management							
Technical Monitoring	neip						
IT Service Management	Auto-Incidents						
Change Request Management	Enable this indicator in the tab Summary, if you want incidents (support messages) to be automatically created (in Solution Manager Support Desk) from Alerts. If you disable this indicator, you can still create incidents manually from the alert inbox.						
Business Process Monitoring							
Business Process Change A	n you wan to use Auto-Incoents, make sure that you enter the lolowing mortanion in the tab Incoent.						
Measurement Platform Set Up	Support component						
Data Volume Management	CRII Transaction type If on criteria the corresponding Alert should also be closed.						
Custom Code Management	Default Settings						
Job Management							
SAP Test Acceleration and O	Summary Incidents Notifications Third-Party Components						
Component Based Test Auto	Last Channed at: 0107.2013 - 12-39-24 Last Channed by: Mavank Shrivastava						
Service Availability Managem							
Further Configuration	Last change comment helo						
Technical Monitoring							
O System Monitoring	New Change Comment:						
O IT Infrastructure Monitoring							
O SolMan Self-Monitoring	Automatic biology Constitution - Automatical						
Interface & PO Monitoring	Automatic incellent independent independent						
Job & BI Monitoring	Tuicker company and the second s						
	Automit Alt Configuration lactive						
✓ Related Links							

Define Workmode Settings (Currently not supported until SP10)

- Step 2.4 Workmode Settings allows you to customize workmode settings.
 - You can define whether Job monitoring shall be enabled or disabled under certain workmode conditions
 - These settings affect only the workmode behavior for Job monitoring scenarios not for the system monitoring of the systems involved in Job monitoring scenarios.
 - The business hours, downtimes, etc. can be defined per Job monitoring scenario in the "Technical Administration" workcenter under "Work Mode Management".
 - By default the Job monitoring will be enabled at all times except for "Planned Downtimes".

SAP Solution Manager Configuration: Technical Monitoring - Job & BI Monitoring						
↓ 	▶ Overview ▼ Job Monitoring ▶ Bl Monitoring					
Overview	Technical System SD7~ABAP~200 User Name LVA		Create Support Message			
System Preparation	Configure					
Basic Configuration	1 Overview 2 Infrastructure 2.1 Check 2.2 Configure 2.3 Default Settin	gs 2.4 Workmode 2.5 Update Content				
Managed Systems Configura	v Prerequisites Manually	Settings 7				
SAP IT Infrastructure Manag	Edit Previous Next Save Reset					
EarlyWatch Alert Management	Heln		EF			
Technical Monitoring						
IT Service Management	In this step, you can configure the standard behavior of EEMon depending on the work mode. The settings affect all metrics and alerts of EEMon.					
Change Request Management	EEMon consumes work modes defined for the monitored objects. You can assign work modes to					
Business Process Monitoring	technical systems, hosts and databases individually					
Business Process Change A	 technical scenarios. The work mode is inherited by all objects of the technical scenario. 					
Measurement Platform Set Up	To ensure that scripts are executed for a work mode, select the Monitoring Enabled checkbox.					
Data Volume Management	······································					
Custom Code Management	Monitoring Settings for Work-modes of monitored Scenarios/Systems					
Job Management	Work mode Type	Monitoring Enabled				
SAP Test Acceleration and O	No workmode configured					
Component Based Test Auto	Planned Downtime					
Service Availability Managem	Peak Business Hours					
Further Configuration	Non-Yeak Business Hours					
Technical Monitoring	Maintenance					

Update SAP Monitoring Template Content

- Step 2.5 Update Content allows you to update Solution Manager with the latest monitoring template definitions.
 - Newly updated content will have effect to subsequently executed monitoring template assignments
 - Content version 13 is the minimum version required

Technical System SD7~ABAP~200 User Name LVA	Create Support Message
1 Overview 2 Configure Infrastructure 2.1 Check Prerequisites 2.2 Configure Manually 2.3 Default Settings 2.4 Workmode Settings 2.5 Update Content	
Help	EP
separately. It is recommended that you carry out this step only under the use case System Monitoring.	
If you happen to import the same content version that is currently applied in your system, ensure that you apply the content again. This is required as the latest content you imported may have minor changes although the content version was same.	
Pre requisite: OSS connectivity from the solution manager system.	
Content Update:	
Active Content is the Content Version that has been applied.	-
Content Update	
Last Check: 28 Oct 2013, 05:35:26 CET Refresh	
Active Content:	
New Content Available:	
Update Content	

Create Users

 Step 3 Create Template Users allows you to create standard Template/Demo Users in the SAP Solution Manager system.

If you use BI Reporting, you need additional standard template users in the BW system/client. If your BW system is in the same client as SAP Solution Manager, the relevant roles are assigned to the standard user in the SAP Solution Manager system.

SAP Solution Manager Configuration: Technical Monitoring - Job & BI Monitoring Personalize								
↓ 	▶ Overview ▼ Job Monitoring ▶ BI Monitoring							
Overview	Technical System SD7~ABAP~200 User Name LVA	Create Support Message						
System Preparation								
Basic Configuration	1 Overview 2 Configure 3 Create Template 4 Define Scope 5 Configure ABAP 6 Configure SAP 7 Complete							
Managed Systems Configura	<u> </u>							
SAP IT Infrastructure Manag	Read Only A Previous Next Save Reset							
EarlyWatch Alert Management	Help							
Technical Monitoring	пер							
IT Service Management	This optional step creates standard Template/Demo Users in the SAP Solution Manager system.							
Change Request Management	If you use BI Reporting, you need additional standard template users in the BW system/client. If your BW system is in the same client as SAP Solution Manager, the relevant roles are assigned to the standard user in the SAP Solution Manager system.							
Business Process Monitoring	You have the following options:							
Business Process Change A								
Measurement Platform Set Up	You can create a new user. The system creates the new user, the corresponding business partner, if necessary, and assigns the relevant copied and SAP roles.							
Data Volume Management	Vou can use an evicting user. The system assigns the relevant conied roles and SAD roles to an evicting user.	-						
Custom Code Management	Users							
Job Management	Create all Users	Refresh						
SAP Test Acceleration and O	Status Update Needed Current ID Standard ID User Type System Document	ntation Login						
Component Based Test Auto	TP_JMON_L1 TP_JMON_L1 Dialog User SD7 Displ	ay						
Service Availability Managem	↓ ↓ TP_JMON_L2 TP_JMON_L2 Dialog User SD7 Displ	ay						
Further Configuration	Image: Weight of the second secon	ay						

• Step 4 Define Scope allows you to define managed systems where jobs will be monitored.

SAP Solution Manager Configuration: Technical Monitoring - Job & BI Monitoring						
↓ ► • •	► Overview Job Monitoring ► BI Monitoring					
Overview	Technical System SD7~ABAP~200 User Name LVA	Create Support Message				
System Preparation						
Basic Configuration	1 Overview 2 Configure 3 Create Template 4 Define Scope 5 Configure ABAP 6 Configure SAP 7 Complete					
Managed Systems Configura						
SAP IT Infrastructure Manag	Read Only Previous Next Save Reset					
EarlyWatch Alert Management	Help	E				
Technical Monitoring	incih					
IT Service Management	In this step, you select the technical scenario to configure for Unified Job monitoring. A scenario is a set of technical systems. You must select a scenario to proceed to the next setup steps.					
Change Request Management	Note: To configure several job monitoring scenarios, execute the steps for each scenario.					
Business Process Monitoring	This step allows you to create a new scenario, or maintain or delete an existing Job Monitoring scenario.					
Business Process Change A						
Measurement Platform Set Up	1. To create a scenario, choose the button Create. A scenario creation wizard is displayed in a new browser window.					
Data Volume Management	a) In stan 1 (Enter Name/Tyrna) enter technical name and a lenible description of the scenario					
Custom Code Management	Scenario Selection					
Job Management	Create Maintain Delete	Refresh Filter				
SAP Test Acceleration and O	Name	Monitoring & Alerting Setup Status				
Component Based Test Auto	_1_VJ_Test VJ Test	↓ ↓				
Service Availability Managem	DEMO Demo Scenario	\diamond				

- A new Job monitoring scenario is defined via a guided procedure
 - Step 1: In the first step you have to enter a unique name for the Job monitoring scenario and a description text.

SAP Solution Manager	r Configuration - Tech	nnical Monitoring - Job Mon	itoring			
I >	1 Enter Name/Type	2 Select technical systems	Define attributes	4 Additional Configuration	5	
	Define Technical So	cenario Properties	Manifacian			
	Enter name of the T Enter a description	fechnical Scenario: * Joi for technical scenario: * Sc	o_Mon_Scenario enario Description			
				[Continue	

• Step 2: here you need to select the technical systems that shall be included within your Job monitoring scenario

AP Solution Manager Configuration - Technical Monitoring - Job Monitoring		elect Technical Sys	stems of Type 'Application	Server ABAP'	SAP Solution Manager Configuration - Technical Mon	itoring - Job Monitoring	ļ
Image: Define attributes Additional Configuration Review	1			Filter	Enter Name/Type Select tec	2 3 hnical systems Define attribute	22
	E	Ext. System ID	Caption	ТS Туре 🔺			
🖫 Scenario Header		001	001 on	ABAP	🛄 Scenario Header		
Name Job_Mon_Scenario	1	0BP	0BP on	ABAP	Hame	Job_Mon_Scenario	
Type: Job Monitoring Description: Scenario Description		0CV	0CV on	ABAP	Lype: Description:	Job Monitoring	
		12300001	123 on hostjan	ABAP	Define Technical Syste	ms	
Define Technical Systems		1AS	1AS on	ABAP	Add Technical System(s) 4	
Application Server ABAP		1CD	1CD on	ABAP	Ext. System ID	Caption	т
Ext. System D Caption TS Type A		1ST	1ST on	ABAP	SD7 ST7	SD7 on lddbsd7 . ST7 on lddbst7 .	p p
Caption		1YA	1YA on	ABAP			
		1YB	1YB on	ABAP			
		4C5	4C5 on	ABAP			
Back		A01	A01 on testhost01	ABAP	Back		
		A0100001	A01 on wdflbmd8112	ABAP			
		A0G	A0G on uxdba0g	ABAP			
		A12	A12 on wdflbmd0401	ABAP			

A1200001



Note: Application Server ABAP also runs the BW Process Chains

Only objects from selected technical systems can be monitored in a Job monitoring scenario (example: if you want to monitor a ABAP Job defined within a SAP ABAP system, you have to include that ABAP system in the Job monitoring scenario)

A12 on wdflbmd13312

ABAP

Cancel

OK

5

Deview

Additional Configuration

Continue

• Step 5: Review the scenario details with the list of technical systems that you added for monitoring.

SAP Solution Manager Configura	ation - Technical Monitoring -	Job Monitoring		
Enter Nam	2 ne/Type Select technical sy	3 /stems Define attributes /	4 Additional Configuration	Review
	Scenario Header			
	Name J Type: J Description: Jo	ob_Mon_Scenario ob Monitoring ob Monitoring		
	Scenario Details - Technica	Systems		
	Ext. System ID	Caption	TS Type _≜	
	SD7	SD7 on Iddbsd7	ABAP	
	ST7	ST7 on lddbst7	ABAP	
E	Back		Save	

_

Note: Defining attributes and additional configuration are not required for job monitoring. Hence, the steps 3 and 4 are disabled.

Scenario Selection					
Create Maintain Delete					
Name	÷	Description			
₩ job_mon*					
Job_Mon_Scenario		Scenario Description			

You can add or remove systems later by choosing the "Maintain" button in the scenario selection

Select Job Monitoring Scenario for Monitoring Setup

- After the Job monitoring scenario is created you are back in the Job monitoring configuration roadmap in Step 4 "Define Scope"
- You should now verify that the "Managed System Configuration" has been done for all systems that are included in your Job monitoring scenario
- Via "Next" you enter the Job monitoring specific configuration for the selected scenario





Managed System Configuration status should be green for all systems in the scenario before you continue the Job monitoring setup



Step 5: This section provides a guided procedure to set up Job Monitoring for ABAP Jobs.

Sub-steps involved are:

- Select ABAP jobs from managed system
- Configure metrics and thresholds for monitored objects
- Configure incident and notification

Technical S	cenario Job_Mon_Scer	ario~JOB_MONIT User Name LVA		Create	Support Message
1 Over Read Only	rview 2 v	Configure 3 Create Template 4 Define Scope	5 Configure ABAP Jobs 5.1 Select ABAP Jobs 5.2 Alert Configuration		
Help					E
This section settings as w A status, an	provides a guided proce well. Do not forget to Acti Id the log entries for each	dure to set up Job Monitoring for ABAP Jobs. Configure ABAP Jobs by selecting the Jobs from the vate the scenario before leaving the configuration. step, is displayed in the table below. By choosing the link provided in column Description, you ca	e systems that you want to monitor and define thresholds for various metrics. In addition you could an jump directly to a single setup step.	naintain the incidents ar	id notifications
Steps					
Status	Updates Needed	Description	Туре	Last Changed on	Last Changed by
♦		Select ABAP Jobs	Mandatory	00.00.0000 00:00:00	
\diamond		Alert Configuration	Mandatory	00.00.0000 00:00:00	
\diamond		Incidents and Notifications	Mandatory	00.00.0000 00:00:00	
Details of Step	Select ABAP Jobs	Show All			

Step 5.1: Add an ABAP job for monitoring

You can choose Add Jobs Directly or Add Jobs from Managed System

	Add Jobs from Managed System Add Jobs Direc	ctly Delete	Generat	e Sel	ection Activate Selection Deactivate Selection
Ē	* Monitored Obj. Name	Monitored	Job		User
	/BDL/TASK_PROCESSORBENU	Saved		1	TANGP

Note: *Add Jobs Directly* allows to add jobs according to the filter criteria specified during 'Identification'. You also have the possibility to select jobs which are not scheduled yet on the Managed System but you know the Job names and user who will execute them with this option.

Add Jobs Directly and Identification

- Offers the possibility to retrieve job information from the corresponding Managed System according to the filter criteria defined. Result will show all jobs matching in the corresponding system.
 - Job name, refers to the name of the Background Job
 - Variant, name of special variant
 - User, user who executed the job. If no user is maintained explicitly all users (*) are taking into account.
 - Start Procedure, determines how the job is planned to run. There are four different possibilities: by time, by event, by preceding job and use job start condition.
 - Event ID, Event parameter, used if the job is expected to start by event.
 - Preceding Job, mandatory if the job is expected to start by a preceding job. Event ID and parameter must remain blank.
 - Parallel Jobs?, when processing is done in parallel .
 - External Program, name of the executed external program.
 - External Parameter, can be used when custom specific rules are used.
 - · Job rule, when custom specific rules are used.



Special Rules are applicable to identify groups of Background Jobs if the job names follow complicated naming conventions and cannot be mapped by simple procedures mentioned before because they are not flexible enough. For example when names of the jobs are build dinamically with data from table. In this case is not possible to define the name of their jobs prior

their execution.

Add Jobs from Managed System

- 1. Choose a system and a client.
- 2. Choose Get Jobs from ABAP System to fetch the list of jobs that matches to the filter criteria.

You could add a Simple Job Filter Criteria and search for the jobs that you want to monitor.

Example for Filter Search:

Job Name - FI* and search results a list of 10 jobs. As per the search result, you can choose the exact jobs for monitoring by choosing Add Selected Jobs Also, it is possible to retain the selection criteria with a pattern selection, for example, FI* and treat it as a Monitoring Object.

3. Choose Add filter criteria as Monitored Object or Add Selected Jobs according to your case.

Select Simple Jobs Technical System: C6200001 Client: 001 Simple Jobs Fitter Criteria Job Name: ABAP Program: External Program: External Program: Event ID: Preceding Job: User: Job Start Condition	• 1	Job Step No: Variant: External Parameters: Event Parameter: Job Rule:		Most of the time you may be interested in Monitoring Jobs scheduled periodically and not on jobs which are running only once. In those cases you have to filter by Status = S (Scheduled)													
From: * 🔯 21.11.2013	o: * 🔯 21.11.2013 👘 o: * 🕑 23:59:00																
				En Joh Nama	Ioh Sten No. Scheduled	Schedulard	Sta	Dar ABAD Drogram	Variant	Llear	Event D	Event Parameter	Preceding Job	Start Data	Start Time	End Date	End Time
				BDI (TASK PROCESSOR	1 06 11 2013	01:49:49	Fini I	Hourty IBDL/TASK SCHEDULER	800000000018	68 TANGP	CYOILE	Lyont Parameter	Proceeding too	06.11.2013	01:50:15	06 11 2013	01:50:15
				/BDL/TASK PROCESSOR	1 06.11.2013	02:49:49	Fini	Hourly /BDL/TASK SCHEDULER	800000000018	68 TANGP				06.11.2013	02:49:55	06.11.2013	02:49:55
				/BDL/TASK_PROCESSOR	1 06.11.2013	03:49:49	Fini I	Hourly /BDL/TASK_SCHEDULER	800000000016	68 TANGP				06.11.2013	03:49:50	06.11.2013	03:49:51
				/BDL/TASK_PROCESSOR	1 06.11.2013	04:49:49	Fini	Hourly /BDL/TASK_SCHEDULER	800000000016	68 TANGP				06.11.2013	05:07:24	06.11.2013	05:07:24
				/BDL/TASK_PROCESSOR	1 06.11.2013	05:49:49	Fini I	Hourly /BDL/TASK_SCHEDULER	800000000018	68 TANGP				06.11.2013	05:49:51	06.11.2013	05:49:52
				/BDL/TASK_PROCESSOR	1 06.11.2013	06:49:49	Fini I	Hourly /BDL/TASK_SCHEDULER	800000000016	68 TANGP				06.11.2013	06:50:11	06.11.2013	06:50:11
				/BDL/TASK_PROCESSOR	1 06.11.2013	07:49:49	Fini	Hourly /BDL/TASK_SCHEDULER	800000000016	68 TANGP				06.11.2013	07:49:56	06.11.2013	07:50:07
				/BDL/TASK_PROCESSOR	1 06.11.2013	08:49:49	Fini	Hourly /BDL/TASK_SCHEDULER	800000000018	68 TANGP				06.11.2013	08:50:02	06.11.2013	08:53:37
				/BDL/TASK_PROCESSOR	1 06.11.2013	09:49:49	Fini	Hourly /BDL/TASK_SCHEDULER	80000000018	68 TANGP				06.11.2013	09:50:02	06.11.2013	09:53:44
				/BDL/TASK_PROCESSOR	1 06.11.2013	10:49:49	Fini	Hourly /BDL/TASK_SCHEDULER	800000000016	68 TANGP				06.11.2013	10:49:54	06.11.2013	10:52:48
				4										·			
												Add filter	criteria as monitor	ed object Add s	elected jobs as	monitored object	i Cancel
																	_

ABAP Jobs Schedule

Simple Schedule, indicates the relevant day of the week for monitoring.

Weekdays Monday to Friday are set automatically.



Sch	edule								
Sch	edule type: * Sim	ple Schedule	¥						
	Days of the Wee	k						First Start	Periodicity
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Planned Start Time	Period [Minutes]
			\checkmark	 	✓	v		00:00:00	60
	Critical Job								
Data	Collection Freque	ncy: 15 Minutes	 Data Retention Period ((in days): 2					

ABAP Jobs Schedule

- Schedule
 - Critical Job, mark the Job as critical, if the alerts collection from monitored systems to SAP Solution Manager should take place more frequently. Per default the alert collection for critical jobs is 5 minutes and for noncritical jobs the alert collection is 60 minutes.
 - Data Collection Frequency, specify how often the back ground job for data collection will be scheduled on the Managed System.
 - Data Retention Period (in days), is the time (in days) for which data is kept in the metric directory.
 - You will see only metrics for those job instances that have been run within the retention period.



Configured objects summary

Once you add monitored objects, you can view the summary of monitored objects per system.

Example:

In the snap shot **ST7 System** and **client 001** is selected for monitoring and it has **(0) Managed Object** configured in this scenario.



Explanation for the MO configuration representation:

C6200001, ST7 - System SID 000 - Client (number) - Monitored objects for that client C6200001 200(0) - The system/client combination highlighted is currently selected for configuration ST7 100(2) - The system/client combinations underlined are all other clients where Change Manager (TMW) is configured

Configure Alerts Metric Definitions



Configure Alerts Metric Definitions

The availability of the alerts depends on the start procedure defined for the job.

- Start Delay: You can monitor if the start of a job has been delayed. This alert is always available. For jobs that are started by event, by preceding job or by job Start condition this alerts means the technical start delay. The technical start delay is the delay as visible in transaction SM37. For jobs started by time the start delay is considered relative to the specified start time.
- Not started on time: You can monitor if no job has started until a defined time of the day.
- End Delay: You can monitor if job has not finished by a certain time. This alert is available for non-periodic jobs.
- **Maximum Definition**: You can monitor if the job has exceeded a certain run time. This alert is always available.
- **Status (Cancellation)**: You can raise a yellow or red alert if the job has cancelled. This alert is always available.
- **Parallel Processing**: You can monitor if a specified number of identical jobs are running in parallel (started within 2 minutes of each other). This alert is available if in the scheduling information the job has been specified as processed in parallel.
- Out of Time Window: You can monitor if a job has run outside a certain time window (started too early or finished too late). This alert is available for non-periodic jobs.
- **Job Log Messages**: You can monitor if certain messages appear in the job log. This alert is always available.
- Job Log Content: You can add values if the lob log messages and monitor the total sum of these values.

Configure Alerts

Visual representation of logical grouping of the metrics for different job events



Configure Alerts Set Thresholds

- Step 5.2 After ABAP jobs have been assigned for monitoring you can configure details per monitored job
 - Define general settings (switch on/off data collection and/or alerting)
 - Define thresholds per metric



Configure Incidents and Notifications

Step 5.3: In this step you configure Incidents and Notifications.

- Incident, allows you to maintain:
 - When it has to be created, for red or yellow alerts.
 - CRM Transaction Type
 - Support Component
 - Reported By
 - Category ID
 - Finally you have the possibility of confirming Alerts automatically at the
 - same time as the incident.

Incident Settings	
Template Settings	
Automatic Incident Creation:	Active
Create Incident for:	Red and Yellow Alerts 💌
CRM Transaction Type:	Incident (IT Service Managemer
Support Component:	D
Reported By:	SOLMAN_BTC SOLMAN_BTC
Category ID:	D D
Incident Confirmation Confirms Alert:	

Note: If you choose Global Settings (Active), then the corresponding functionality for which the option is selected will take the global settings.

Configure Notifications

Notifications, when a yellow or red alert are triggered a notification can be send to the Maintain Recipient Lists or Maintain Global Recipients.



On the *Recipients and Recipient Lists* table you can add (Add Entry button), delete (delete entry button) recipients/recipients lists and also maintain Recipient lists and global recipients. Clicking on "Maintain Recipient Lists" and "Maintain Global Recipients" launches Notification Administration application and you can maintain Recipient Lists and Global Recipients.

Configure Alerts

Activate

Once you configure alerts, you need to save, generate and activate the configured monitored object. **Monitored data will be collected from the time it was activated.** Depending on the frequencies and set up of the job monitoring, it could take some time until the first results will be displayed in the Job Monitoring UI.

Generate Selection Activate Selection Deactivate Selection

Generate All

All configured monitoring object (ABAP Jobs) in the technical scenario will be generated on this action. This process will generate the alert configuration details with reference to the latest saved version of the monitoring object. It is obligatory to carry out a generation before activating the scenario.

Activate All

All configured monitoring object (ABAP Jobs) in the technical scenario will be activated. Activation happens with the generated version. This process will enable you to monitor the configured job in the job monitoring work center.

Deactivate All

The context information in the directory (run time) will be cleared off and the data collection will be switched off for all the configured monitoring object. When you deactivate a monitored object the activated version is deleted in the Solution Manager Monitoring.



Generate All Activate All Deactivate All

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Configure SAP NetWeaver BW Process Chains

Step 6: In this step you configure SAP NetWeaver BW Process Chains by selecting the process chains from the systems that you want to monitor.

Sub-steps involved are:

- · Add process chains from the systems that you want to monitor
- Define thresholds for various metrics
- · Maintain incidents and notifications

► Overview Job Monitoring ► BI Monitoring	
Technical Scenario MFMon~JOB_MONIT User Name LVA	Create Support Message
1 Overview	
Read Only Previous Next Save Reset	

Configure SAP NetWeaver BW Process Chains

Step 6.1: Add BW Process Chains

- 1. Choose Add BW Process Chains/Steps from Managed System
- 2. Choose a Technical System.
- 3. Choose Get Process Chains from BW System to fetch the list of process chains.

You could add a *BW process Chain Filter Criteria* and search for the PC that you want to monitor by defining a pattern (*) for a selection of Process Chains. This enables the user to flexibly choose a range of process chains that could have their actual name decided only at the runtime.

- 4. Choose the required steps of the selected chain when you have selected multiple process chains. You can select the BW Process Chain Header or a process chain header
- + steps of the same chain.
- 5. Choose Add BW Process Chains.



If you want to assign an existing monitored object of a chain to a process step as parent, then a new monitored object is created for the step. However, the monitored object for the process step inherits the schedule of the existing monitored object of the chain, which can be changed if the parent monitored object is deactivated.

Generate All Activate All Deactivate All			
DP7(0) <u>SD7(0)</u>			
Add BW Process Chains/ Steps from Managed Sys	stem Delete	Generate Selection Activate Select	ion Deactivate Selection
而 * Monitored Obj. Name	Monitored	Parent Mon. Object	BW Chain ID

Use Ctrl select for multiple selection

V Process Chain Filter Criteria					
V Process Chain Header			BW Process Chain	Steps	
<u>2</u>		Fiter	Process Ch	Variant	
BW Chain ID Show Steps			ABAP	Z_REPORT	
BLR_TEST Choose Steps			TRIGGER	BLR_START	
Create new monitored object Use existing monitored object					
Monitored Obj. Name	System ID	<u></u>			
ZGB_BLR_TEST_CHAIN	517				
DIR TEST CHINI	911				
BLR_TEST_CHAIN BLR_TEST_CHAIN AK	\$17				
BLR_TEST_CHAIN BLR_TEST_CHAIN_AK BLR_TEST_CHAIN_Menuel	ST7 ST7				
BLR_TEST_CHAIN BLR_TEST_CHAIN_AK BLR_TEST_CHAIN_Monuel BLR_TEST_CHAIN111	\$17 \$17 \$17				
ER_TEST_CHN ER_TEST_CHN ER_TEST_CHN_PK ER_TEST_CHN_PK BR_TEST_CHN_PK ER_TE	517 517 517			5	

Configure Alerts

Step 6.2 After Process Chains have been assigned for monitoring you can configure details per monitored PC

- Define general settings (switch on/off data collection and/or alerting)
- Define thresholds per metric



Configure Incidents and Notifications

Step 6.3: In this step you configure Incidents and Notifications.

- Incident, allows you to maintain:
 - When it has to be created, for red or yellow alerts.
 - CRM Transaction Type
 - Support Component
 - Reported By
 - Category ID
 - Finally you have the possibility of confirming Alerts automatically at the
 - same time as the incident.

Incident Settings	
Template Settings	
Automatic Incident Creation:	Active 💌
Create Incident for:	Red and Yellow Alerts 💌
CRM Transaction Type:	Incident (IT Service Managemer
Support Component:	Ē
Reported By:	SOLMAN_BTC
Category ID:	D
Incident Confirmation Confirms Alert:	

Note: If you choose Global Settings (Active), then the corresponding functionality for which the option is selected will take the global settings.

Configure Notifications

Notifications, when a yellow or red alert are triggered a notification can be send to the Maintain Recipient Lists or Maintain Global Recipients.



On the *Recipients and Recipient Lists* table you can add (Add Entry button), delete (delete entry button) recipients/recipients lists and also maintain Recipient lists and global recipients. Clicking on "Maintain Recipient Lists" and "Maintain Global Recipients" launches Notification Administration application and you can maintain Recipient Lists and Global Recipients.

Work Modes can be activated for Incidents or Notifications. When a Planned Downtime was scheduled an Automatic Notification or Automatic Incident Creation can be deactivated.

Configure Alerts

Activate

Once you configure alerts, you need to save, generate and activate the configured monitored object. **Monitored data will be collected from the time it was activated.** Depending on the frequencies and set up of the job monitoring, it takes some time until the first results will be displayed in the Job Monitoring UI.

Generate Selection Activate Selection Deactivate Selection

Generate All

All configured monitoring object (BW PC) in the technical scenario will be generated on this action. This process will generate the alert configuration details with reference to the latest saved version of the monitoring object. It is obligatory to carry out a generation before activating the scenario.

Activate All

All configured monitoring object (BW PC) in the technical scenario will be activated. Activation happens with the generated version. This process will enable you to monitor the configured job in the job monitoring work center.

Deactivate All

The context information in the directory will be cleared off and the data collection will be switched off for all the configured monitoring object. When you deactivate a managed object the activated version is deleted in the Solution Manager runtime in the Managed System.

Delete can only be possible when no active versions exists.

Generate All Activate All Deactivate All

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Check Summary

- Step 7 Complete gives an overview on the success status of each step and sub-step of the Job Monitoring Configuration
 - All steps and sub-steps should have a green status
 - Press "Finish" to complete the Job configuration

1 overview 2 Configure infrastructure	Create Tem Users	plate 4 Define S	icope 5 Ja	onfigure ABAP 6 Configure SAP 7 Complete							
📢 Previous Next 🕨 Save Reset Finish Export To H	TML										
Help											
The Job Monitoring is set up for the scenarios in scope. In this step, the status of all previous Job Monitoring steps are displayed.											
Steps											
Configuration Step	Status	Last Changed on	Last Changed by	Description							
Overview	\diamond			Overview							
Configure Infrastructure	Δ			Configure Infrastructure							
Check Percentisities											
Check Prerequisites	Δ	17.10.2013 08:25:42	ZHAOLEO	Check Prerequisites							
Check Prerequisites Configure Manually	Δ	17.10.2013 08:25:42 29.08.2013 14:16:05	ZHAOLE0 C5179363	Check Prerequisites Configure Manually							
Check Prerequisites Configure Manually Default Settings		17.10.2013 08:25:42 29.08.2013 14:16:05 21.10.2013 15:23:12	ZHAOLEO C5179363 SAMPATHR	Check Prerequisites Configure Manually Default Settings							
Check Prerequisites Configure Manually Default Settings Workmode Settings		17.10.2013 08:25:42 29.08.2013 14:16:05 21.10.2013 15:23:12 22.05.2013 19:17:26	ZHAOLEO C5179363 SAMPATHR JOBMAICFG_02	Check Prerequisites Configure Manually Default Settings Workmode specific Monitoring Settings							
Check Prerequisites Configure Manually Default Settings Workmode Settings Update Content		17.10.2013 08:25:42 29.08.2013 14:16:05 21.10.2013 15:23:12 22.05.2013 19:17:26 04.11.2013 07:39:40	ZHAOLEO C5179363 SAMPATHR JOBMAICFG_02 YUEZ	Check Prerequisites Configure Manually Default Settings Workmode specific Monitoring Settings Updates Repository Content							
Check Prerequisites Configure Manually Default Settings Workmode Settings Update Content Create Template Users		17.10.2013 08:25:42 29.08.2013 14:16:05 21.10.2013 15:23:12 22.05.2013 19:17:26 04.11.2013 07:39:40 20.06.2013 23:12:26	ZHAOLEO C5179363 SAMPATHR JOBMAICFG_02 YUEZ C5171162	Check Prerequisites Configure Manually Default Settings Workmode specific Monitoring Settings Updates Repository Content Create Template Users							
Check Prerequisites Configure Manually Default Settings Workmode Settings Update Content Create Template Users Define Scope		17.10.2013 08:25:42 29.08.2013 14:16:05 21.10.2013 15:23:12 22.05.2013 19:17:26 04.11.2013 07:39:40 20.06.2013 23:12:26 06.11.2013 13:53:26	ZHAOLEO C5179363 SAMPATHR JOBMAICFG_02 YUEZ C5171162 SAMPATHR	Check Prerequisites Configure Manually Default Settings Workmode specific Monitoring Settings Updates Repository Content Create Template Users Define Scope							
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Check Prerequisites Configure Manually Default Settings Workmode Settings Update Content Create Template Users Define Scope Configure ABAP Jobs Select ABAP Jobs		17.10.2013 08:25:42 29.08.2013 14:16:05 21.10.2013 15:23:12 22.05.2013 19:17:26 04.11.2013 07:39:40 20.06.2013 23:12:26 06.11.2013 15:49:31	ZHAOLEO C5179383 SAMPATHR JOBMAICFG_02 YUEZ C5171162 SAMPATHR LVA	Check Prerequisites Configure Manually Default Settings Workmode specific Monitoring Settings Updates Repository Content Create Template Users Define Scope Configure ABAP jobs for monitoring and alerting Select ABAP Jobs from Managed System							
Check Prerequisites Configure Manually Default Settings Workmode Settings Update Content Create Template Users Define Scope Configure ABAP Jobs Select ABAP Jobs Alert Configuration		17.10.2013 08:25:42 29.08.2013 14:16:05 21.10.2013 15:23:12 22.05.2013 19:17.26 04.11.2013 07:39:40 20.06.2013 23:12:26 06.11.2013 13:53:26 06.11.2013 15:49:31 06.11.2013 15:53:03	ZHAOLEO C5179363 SAMPATHR JOBMAICFG_02 YUEZ C5171162 SAMPATHR LVA LVA	Check Prerequisites Configure Manually Default Settings Workmode specific Monitoring Settings Updates Repository Content Create Template Users Define Scope Configure ABAP jobs for monitoring and alerting Select ABAP Jobs form Managed System Configure thresholds of the selected ABAP Jobs							
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Configuration - Entry through Business Process Monitoring



entry from Business Process Monitoring

Setup from Business Process Monitoring

- Select Business Process Operations (New) Workcenter you may require role SAP_SMWORK_BPO.
- Go to Setup Business Process Monitoring
- Select the checkbox "Monitoring using MAI" to monitor via job monitoring in Technical Monitoring Workcenter. This change is irreversible. This flag can only be set without migration, if the solution does not have a monitored object assigned.



entry from Business Process Monitoring

- Select your Solution where your Business Process is documented
- Select your Business Scenario where the Business Process is located
- Select the Business Process which contains the Job to be monitored
- Select the step with the Job





entry from Business Process Monitoring

- Create a New Monitoring Object under Tab 'Monitoring Objects'
- On the Create New Monitoring Object section -> Cross Application, select Background Processing
- Choose the Monitor from drop-down Monitor list.
- Select OK.



entry from Business Process Monitoring

- Get Jobs from ABAP System
- Select Job for Monitoring
- Add selected Jobs



entry from Business Process Monitoring

- During Select Objects you follow the same procedure as before for ABAP Jobs.
- You **Check Identification Data button** and you can add more than one job by step according to your filter criteria.



Not Saved

MRP_4_BPMON_JOBMON

ORGANISTA

by time

MRP 4 BPMON JOBMON

The table does not contain any data

Check Identification Data

Solution

Identification

Job Name:

Variant

User: *

Start Procedure:

MRP...

Scenario

Ð

•

entry from Business Process Monitoring

• During schedule you can also mark jobs which are critical or not.



entry from Business Process Monitoring

 Alert Configuration follows same procedure as an ABAP Job, after selecting objects you have to click on 'Configure Alerting'.

 Notification and settings are the same as ABAP Job and BW Process Chains

 Save, Generate and Activate your Monitoring Configuration.



Monitoring



Prerequisites

Ma Activate SICF services by performing the steps below:

Filter

- launch transaction SICF 1.
- Specific Service for hierarchy type 2.
- Activate the following service name. 3. " JOBMON_DATA " CNMUI5SVC
 - " UI5 UI5
 - " AGS_OCC_UI5
 - " BSP jobmon_runtime

Maintain Serv	vices						
D 🔁							
ilter for Calling ICF Hi	erarchy	_					
Hierarchy Type	(()	SERVICE	ð				
Virtual Host							
Service Path					7		
Service Name		JOBMON_DATA					
Reference Service							
Description					ĩ		
Language		English	•				
		-					
	Maintain servi	ce					
	Create Host/Service	~~ %2 fit fot III ⇔Extern		🧐 🎦 System Manitor Active 🖁	-a		
	Cicate Host Service			System Homeon Active	-		
	Filter Details		D.11				
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						Paste	

Prerequisites contd...

- Uncheck browser cache.
- To make the Refresh of the Job Monitoring UI work correctly with IE 9 and IE 10 the following setting needs to be changed:
- 1. Go to Tools ->Internet Options
- 2. In *General* tab press *Settings* in the *Browser History* section.
- 3. In Check for newer versions of stored pages select the option Every time I visit the webpage.

Monitoring

from Technical Monitoring

ABAP Jobs and SAP NetWeaver Process Chains are monitored from Technical Monitoring workcenter by Job Mon Systems, Job Mon Scenarios

Q



Monitoring

Job Monitoring UI

- Monitoring UI is divided in three sections:
 - Filter area
 - Monitored Object List and
 - Monitored Object
 Instance Details.

Jo	b Monitorin	ıg									When	you c	lick on	the	Welcome USE/
۹.	Filter Job Type Filter	Jol	Name			т	Allows you Jobs, BW F Job Name, Time Rang Metrics	filter by / Process (System, e, Status	ABAP Chains, Client, or	eftesh T	Job Id Job Id	oring r you th ce list entific chedu	name, it ne MO to and to and	: will	Identification Name ant: Count: 22000
	ABAP Jobs BW Process Chair	BAP Jobs BW Process Chains System Client		v			Status • Al Green Red Metric All			Yellow 🚽	Job Instance Detail and BPMon Step associated			S	P Program: EST_WAIT I GANISTA
r t	Proc Chain ST7	cc Chain ST7 Triangle allows you to see MO Instance list			ay V		Records Sent Data Packages								00056405F91ED2BD882889FA3A0388 pb. <u>Scheduling Info</u> chedule Type: iticality:
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	Start Time	End Time	Status	Duration	Start Delay	End Delay	Start Time Time Wi.	Job Log	Job Log J	lob Can	Job Active	Inci	E-Mail		og ID:
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SAP Notes related to Job Monitoring:

- <u>1581417</u> Advanced Correction BPM Data Collectors for BW Process Chains
- 1706837 Corrections: BI Data Col. For BW Process Chains ST-A/PI 01P
- <u>1870459</u> ST-A/PI 01Q: Corrections Data Provider for BW Process Chains
- 1866169 Corrections unified job monitoring ST-PI 2008_1_xxx SP9
- <u>1927294</u> SP10: JOBMON: Translation related issues