



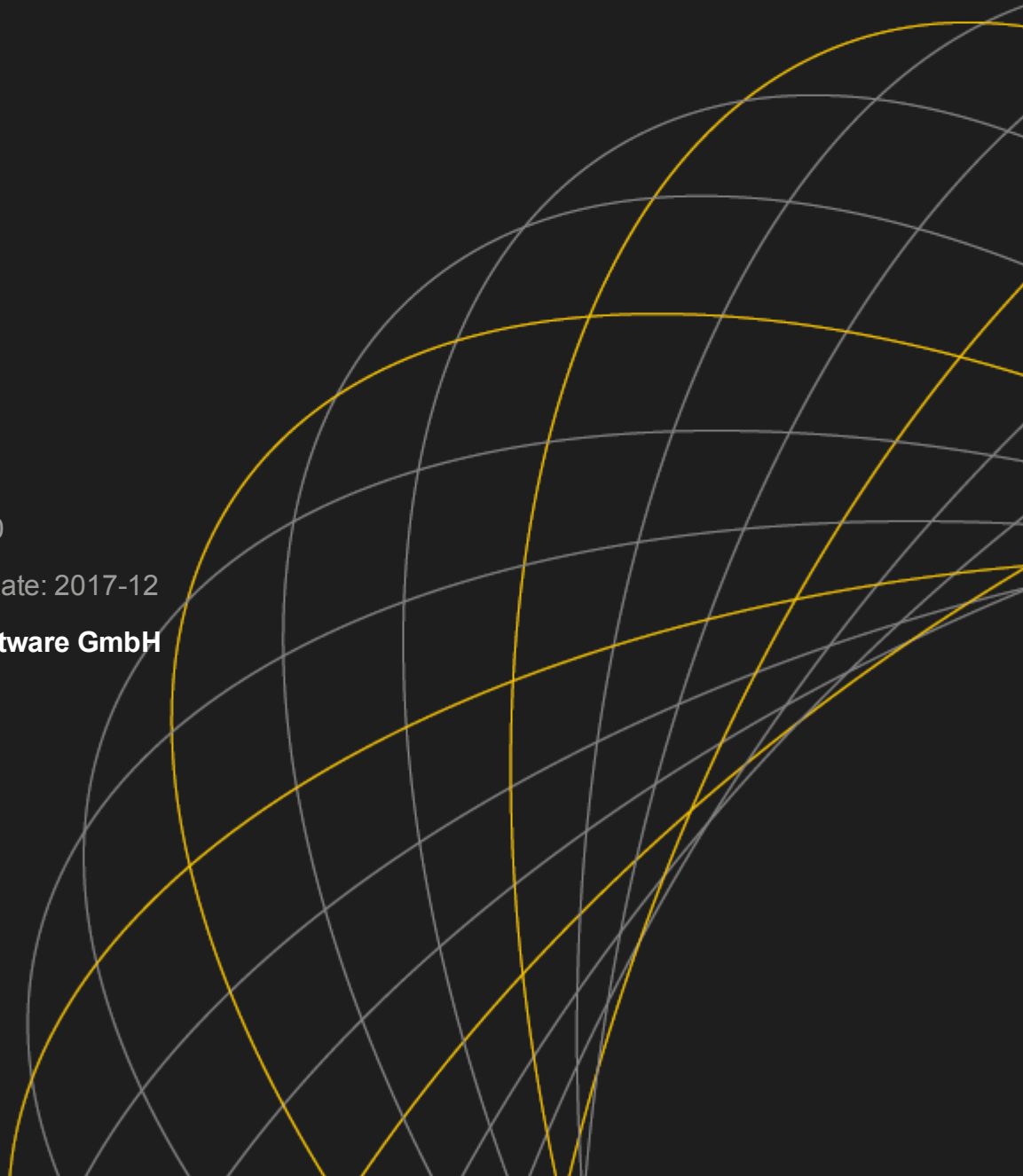
Temenos Workload Automation

ONE Automation

Version: 2.1.0

Publication Date: 2017-12

Automatic Software GmbH



Copyright

Automic® and the Automic logo® are trademarks owned by Automic Software GmbH (Automic). All such trademarks can be used by permission only and are subject to the written license terms. This software/computer program is proprietary and confidential to Automic Software and is only available for access and use under approved written license terms.

This software/computer program is further protected by copyright laws, international treaties and other domestic and international laws and any unauthorized access or use gives rise to civil and criminal penalties. Unauthorized copying or other reproduction of any form (in whole or in part), disassembly, decompilation, reverse engineering, modification, and development of any derivative works are all strictly prohibited, and any party or person engaging in such will be prosecuted by Automic Software.

No liability is accepted for any changes, mistakes, printing or production errors. Reproduction in whole or in part without permission is prohibited.

© Copyright Automic Software GmbH. All rights reserved.

Other names may be trademarks of their respective holders.

Contents

1 About Temenos 24	iv
2 About ARA	5
3 About Workload Automation for Temenos	7
4 About Actions	8
5 Getting Started	10
5.1 Links & Guides	10
5.2 Prerequisites	10
6 Installing and Upgrading Packs	11
7 Workload Automation for Temenos Pack Description	12
7.1 Check Service Completion Action	13
7.2 Clear File Action	15
7.3 Start TSM in Debug Mode Action	17
7.4 Start TSM in Phantom Mode Action	18
7.5 Verify Business Dates Action	19
7.6 Check TSM Stop Action	21
7.7 Start Service Action	23
7.8 Stop Service Action	25
7.9 Retrieve T24 Date	27
7.10 Reporter Collect Action	29
7.11 Store to Database Action	31
7.12 Retrieve Dashboard Data Action	34
7.13 COB Monitoring Action	37
8 System Configuration and Connection Parameters	38
9 Templates	40
10 Configuring Temenos T24 Dashboards	41
11 About Automic Software, Community and Support	45

1 About Temenos 24

Temenos 24 is a core banking system which provides a SOA-based front-to-back platform. This application has removed the need for end-of-day processing and enabled 24/7 online service. Temenos can be implemented within an n-tier deployment, which ensures continuous operation of the system as a whole.

 To know more see: <https://www.temenos.com/en/solutions/products/core-banking-software/>

2 About ARA

Atomic Release Automation is an end-to-end solution for planning, coordinating and automating software release processes, including automated deployment of applications across large-scale server environments.

Purpose

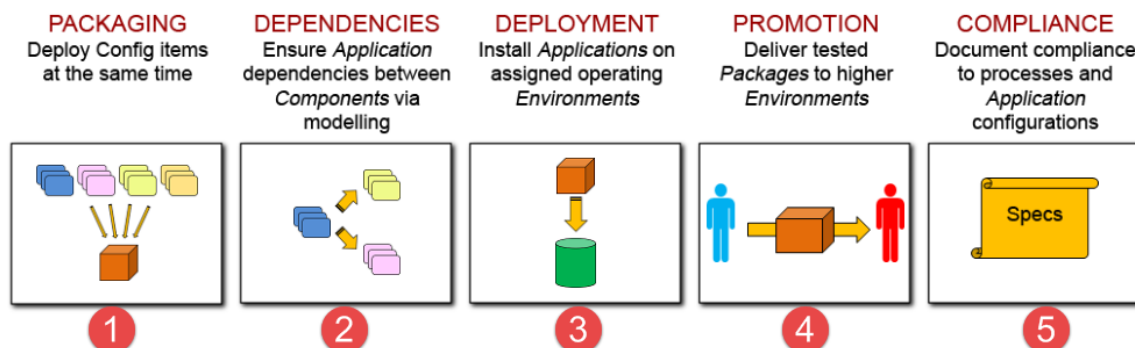
The purpose of Atomic Release Automation is to unify enterprise application and infrastructure automation functionality onto a single platform - without the need of managing multiple tools. Users first architect and control the execution of application process flows, then orchestrate the underlying infrastructure to meet required service levels.

ARA streamlines application release workflow managements for even the most highly-scaled environments while reducing deployment cost across the organization including development, testing and production.

The particular aim is to enable consistent, traceable and auditable deployment for multi-tier applications across heterogeneous and distributed IT infrastructures, reaching from physical or virtual to cloud computing platforms. To improve efficiency, quality and release cycle time, a highly automated system like Atomic Release Automation is preferred.

Main Functions

ARA does the following:



1. It allows modelling the various components of an application, which are defined as meta-data elements in ARA, with all necessary technical references to the physical elements, and then the packaging of these components for simultaneous deployment. By using the Automation Engine's powerful synchronization capabilities, it is able to deploy, at the same time, the artifacts that are intended to stay together in a single package.
2. As components of an application generally carry important dependencies across one another, ARA provides native capabilities to build those dependencies via modelling tools, so that the application is deployed in the right sequence. A dependency of a component on another can be enforced using ARA's modeling tools, rather than makeshift orchestration mechanisms.
3. ARA deploys the right components to the right environments and it does so natively. Teams no longer have to worry about pushing the proper artifacts to their assigned systems. ARA does that for them.
4. ARA is capable of staging by allowing users to design structured deployment environments. Hence, each environment like DEV, QA and PRODUCTION exists in ARA as distinct entities and

the same component can be deployed seamlessly across these environments without the need for manual handling and configuration.

5. ARA is particularly adept at enforcing governance and compliance. It provides all the necessary tools to comply with a team's internal processes without having to design checks and balances and fail-safe mechanisms. It will further audit deployments to ensure that everything goes smoothly and without error, all the time.

3 About Workload Automation for Temenos

Automatic Continuous Delivery for Temenos helps you simplify T24 workload and lower maintenance overhead. It allows you to improve security control restricting IT operations use of T24 commands and eliminates unnecessary manual intervention. It also helps you automate the interaction with backend files.

4 About Actions

What are Actions?

Actions are sets of objects that provide a special functionality -for example to start a Tomcat server- and can be embedded within other workflows.

Actions cover different areas of critical data center operations and help you to automate simple and complex tasks.

Examples for simple tasks are the following:

- File system operations or permission checks on Windows, UNIX and Linux,
- Starting, resetting or stopping web-servers or
- Managed transferring of files or folders across platforms.

Examples for more complex tasks are the following:

- Virtualization
- Package management
- Creating websites, web applications and application pools for various platforms like IIS, JBoss, Tomcat or Websphere
- Setting up and configuring database servers

You can access and re-use Actions from the Process Assembly perspective (see AWI User Guide).

For more specific information, see the documentation of the Action Pack where the Action belongs to.


Because Actions are parametrized with prompts for input values, they can be applied in a variety of workflows.

Structure of Actions

An Action consists of all of the following categories:

- A workflow
- At least one prompt-set for input parameters
- A set of sub-tasks for the actual execution

Furthermore, most Actions specify a rollback task that will be executed if the workflow containing the Action fails.

 *Technical Note:* Actions are stored in the Automation Engine. Although they could be built in the Automation Engine directly, you would need to create many objects manually. The Action Builder provides means to create a skeleton for new Actions in a comfortable, integrated user interface.

What are Action Packs?

Action Packs are groups of Actions that are related to each other (for example, Windows File System Actions) and are always imported and exported as a single unit to an existing ARA/ASO client.

For example: the Tomcat Action Pack (which is available to download from the [Automic Marketplace](#)) helps you to automatically manage your application deployments to a Tomcat application server. The Tomcat Action Pack contains the following Actions: Create/Drop Datasource, Start/Stop/Resume Server,

Create Snapshot, Start/Stop Application, Deploy/Undeploy Application, List Applications, List JNDI Resources.

5 Getting Started

5.1 Links & Guides

You can find links to resources for Workload Automation for Temenos 24 in the table below.

Component	Link
Automic Release Automation	ARA v12.x can be downloaded from: http://downloads.automic.com/ . Compatibility Information and system requirements can be found on our website Automic Compatibility Matrix (https://docs.automic.com/tools/compatibility_checker). ARA v12.x documentation is available at Automic Docs (https://docs.automic.com) .

5.2 Prerequisites

Supported Systems

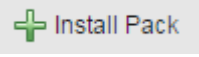



- ARA/AWA v12.x

Supported Versions

- Temenos R16
 - Temenos TAFJ
-

6 Installing and Upgrading Packs

To install a Pack

1. Go to the **Administration** perspective and click the **Packs** accordion tab in the sidebar.
 2. Click . The **Install Pack** window opens.
 3. Click  and browse to the location where you have downloaded the Pack.
 4. Select the Pack you want to install and click **Next**.
 5. Click **Install**. After the installation is complete the new Action Pack can be found in the **PACKAGES** folder (Process Assembly perspective).
-  To upgrade an installed Pack to a newer version, the same procedure can be used. The system will automatically detect the former version and prompt you to upgrade it.
-  Post-fixes are also allowed in the package format schema "integer.integer.integer+(chars|integer).(chars|integer)*" in order to support semantic versioning.
-

7 Workload Automation for Temenos Pack Description

7.1 Check Service Completion Action


This Action checks whether the specified service is completed or not.

 This action will fail if the specified service is still running.

Action Name : **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.CHECK_SERVICE_COMPLETION**

Input

Caption	Variable	Type	Required	Example	Description
Service Name	&UC4RB_TM_SERVICE_NAME#	Text	YES	COB	Name of the Service
Initial Waiting Time (seconds)	&UC4RB_TM_INITIAL_WAIT_TIME#	Number	YES	60	Initial waiting time before checking the service completion. 0 means no waiting time.
Retry Count	&UC4RB_TM_RETRY_COUNT#	Number	YES	5	Specify how many times you want to retry. Minimum Value : 1
Retry Interval (seconds)	&UC4RB_TM_RETRY_INT#	Number	YES	30	Specify how frequently you want to retry to check the service completion. Minimum Value : 30

 Provide T24 Bin directory using:

T24 Bin Directory

This promptset provides the T24 bin directory path:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_BIN_DIRECTORY

Input

Caption	Variable	Type	Required	Default	Example	Description
T24 bin directory	&UC4RB_TM_T24BIN#	Text	Yes	/home/tafj/TAFJ/bin	/home/tafj/TAFJ/bin	Specify bin directory of T24 setup.

 Provide T24 DBTools details using:


T24 DBtools Details

This promptset provides T24 Dbtools username and password:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_DBTOOLS_DETAILS

Input

Caption	Variable	Type	Description
DBTools Username	&UC4RB_TM_DBTOOLS_U#	Text	DBTools username
DBTools Password	&UC4RB_TM_DBTOOLS_P#	Password	DBTools password

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT

Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login


7.2 Clear File Action

This Action clears the specified file.

Action Name : **PCK.AUTOMIC_TEMENOS_T24.CLEAR_FILE**

Input

Caption	Variable	Type	Required	Example	Description
File Name	UC4RB_TM_FILE_NAME	Text	YES	F.EB.EOD.ERROR	File name that you want to clear.

 Provide T24 Bin directory using:

T24 Bin Directory

This promptset provides the T24 bin directory path:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_BIN_DIRECTORY

Input

Caption	Variable	Type	Required	Default	Example	Description
T24 bin directory	&UC4RB_TM_T24BIN#	Text	Yes	/home/tafj/TAFJ/bin	/home/tafj/TAFJ/bin	Specify bin directory of T24 setup.

 Provide T24 DBTools details using:

T24 DBtools Details

This promptset provides T24 Dbtools username and password:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_DBTOOLS_DETAILS

Input

Caption	Variable	Type	Description
DBTools Username	&UC4RB_TM_DBTOOLS_U#	Text	DBTools username
DBTools Password	&UC4RB_TM_DBTOOLS_P#	Password	DBTools password

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT


Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login

7.3 Start TSM in Debug Mode Action

This Action runs TSM in Debug mode.

Action Name: **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.START_TSM_DEBUG**

 Provide T24 Bin directory using:


T24 Bin Directory

This promptset provides the T24 bin directory path:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_BIN_DIRECTORY

Input

Caption	Variable	Type	Required	Default	Example	Description
T24 bin directory	&UC4RB_TM_T24BIN#	Text	Yes	/home/tafj/TAFJ/bin	/home/tafj/TAFJ/bin	Specify bin directory of T24 setup.

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT


Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login

7.4 Start TSM in Phantom Mode Action

This Action starts TSM in Phantom mode.

Action Name: **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.START_TSM_PHANTOM**

 Provide T24 Bin directory using:


T24 Bin Directory

This promptset provides the T24 bin directory path:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_BIN_DIRECTORY

Input

Caption	Variable	Type	Required	Default	Example	Description
T24 bin directory	&UC4RB_TM_T24BIN#	Text	Yes	/home/tafj/TAFJ/bin	/home/tafj/TAFJ/bin	Specify bin directory of T24 setup.

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT


Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login


7.5 Verify Business Dates Action

This Action lists the business dates of T24 application to confirm that the batch date in the T24 system is the same as the actual date. This action also checks that no COB service is currently active.

Action Name: **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.VERIFY_BUSINESS_DATES**

 The Action will fail:

- If the count of business dates fetched (which are same as Current date) is not equal to the number of records.
- If the count of batch status as 'O' (available in the list of business dates) is not equal to the number of records.

 Provide T24 Bin directory using:

T24 Bin Directory

This promptset provides the T24 bin directory path:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_BIN_DIRECTORY

Input

Caption	Variable	Type	Required	Default	Example	Description
T24 bin directory	&UC4RB_TM_T24BIN#	Text	Yes	/home/tafj/TAFJ/bin	/home/tafj/TAFJ/bin	Specify bin directory of T24 setup.

 Provide T24 DBTools details using:


T24 DBtools Details

This promptset provides T24 Dbtools username and password:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_DBTOOLS_DETAILS

Input

Caption	Variable	Type	Description
DBTools Username	&UC4RB_TM_DBTOOLS_U#	Text	DBTools username
DBTools Password	&UC4RB_TM_DBTOOLS_P#	Password	DBTools password

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT


Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login

7.6 Check TSM Stop Action


This Action checks if all the agents are stopped.

Action Name: **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.CHECK_TSM_STOP**

 This Action will fail if all the agents are not stopped.

Input

Caption	Variable	Type	Required	Example	Description
Retry Count	&UC4RB_TM_RETRY_COUNT#	Number	YES	5	Specify how many times you want to retry. Minimum Value : 1
Initial Waiting Time (Seconds)	&UC4RB_TM_INITIAL_WAIT_TIME#	Number	YES	60	Initial waiting time before checking whether TSM is stopped or not. 0 means no waiting time.
Retry Interval (Seconds)	&UC4RB_TM_RETRY_INT#	Number	YES	30	Specify how frequently you want to retry to check whether TSM is stopped or not. Minimum Value: 30

 Provide T24 Bin directory using:

T24 Bin Directory

This promptset provides the T24 bin directory path:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_BIN_DIRECTORY

Input

Caption	Variable	Type	Required	Default	Example	Description
T24 bin directory	&UC4RB_TM_T24BIN#	Text	Yes	/home/tafj/TAFJ/bin	/home/tafj/TAFJ/bin	Specify bin directory of T24 setup.

 Provide T24 DBTools details using:


T24 DBtools Details

This promptset provides T24 Dbtools username and password:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_DBTOOLS_DETAILS

Input

Caption	Variable	Type	Description
DBTools Username	&UC4RB_TM_DBTOOLS_U#	Text	DBTools username
DBTools Password	&UC4RB_TM_DBTOOLS_P#	Password	DBTools password

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT

Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login

7.7 Start Service Action

This Action starts the service in a Temenos system.

Action Name: **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.START_SERVICE**

Input

Caption	Variable	Type	Required	Example	Description
Version	UC4RB_TM_T24_VERSION#	Text	YES	TSA.SERVICE, ?	Specify version object.
Process	UC4RB_TM_T24_PROCESS#	Text	NO	I/PROCESS	Specify Process.
Object	UC4RB_TM_T24_OBJECT#	Text	NO	TSM	Specify the service name that you want to start.
Fail if already started	UC4RB_TM_T24_FAIL_COND#	Radio		YES or NO	Specify yes, if you want to fail the action if service is already started. Default will be YES.

 Provide T24 user details using:


T24 User Details

This promptset provides T24 user details:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_USER_DETAILS

Input

Caption	Variable	Type	Required	Default	Description
Login	UC4RB_TM_T24_USER#	Text	YES	AUTO01	T24 User name.
Password	UC4RB_TM_T24_PASSWD_ENC#	Password	YES		Password to the user name.
OGM Company	UC4RB_TM_T24_COMPANY#	Text	YES	GB0010001	T24 specific code/tag for the banks country code.

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT

Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login

7.8 Stop Service Action

This Action stops the service in a Temenos system.

Action Name: **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.STOP_SERVICE**

Input

Caption	Variable	Type	Required	Example	Description
Version	UC4RB_TM_T24_VERSION#	Text	YES	TSA.SERVICE, ?	Specify version object.
Process	UC4RB_TM_T24_PROCESS#	Text	NO	I/PROCESS	Specify process.
Object	UC4RB_TM_T24_OBJECT#	Text	NO	TSM	Specify the object name that you want to stop.
Fail if already stopped	UC4RB_TM_T24_FAIL_COND#	Radio		YES or NO	Select "yes" if you want the action to fail if service is already stopped.

 Provide T24 user details using:

T24 User Details

This promptset provides T24 user details:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_USER_DETAILS

Input

Caption	Variable	Type	Required	Default	Description
Login	UC4RB_TM_T24_USER#	Text	YES	AUTO01	T24 User name.
Password	UC4RB_TM_T24_PASSWD_ENC#	Password	YES		Password to the user name.
OGM Company	UC4RB_TM_T24_COMPANY#	Text	YES	GB0010001	T24 specific code/tag for the banks country code.

 Provide RA Agent information using:

Overwrite RA Agent Promptset

This promptset provides agent information to the actions with Soap Webservice:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.OVERWRITE_RA_AGENT

Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	OVERWRITE_RA_AGENT_PROMPT#	Text	Yes	Overwrite the RA Agent


7.9 Retrieve T24 Date

This Action retrieves the T24 system date.

Action Name : **PKC.AUTOMIC_TEMENOS_T24.PUB.ACTION.RETRIEVE_T24_DATE**

Input

Caption	Variable	Type	Required	Description
Company Id	UC4RB_TM_COMPANY_ID#	Text	YES	Specify Company Id

 Provide T24 Bin directory using:

T24 Bin Directory

This promptset provides the T24 bin directory path:

PKC.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_BIN_DIRECTORY

Input

Caption	Variable	Type	Required	Default	Example	Description
T24 bin directory	&UC4RB_TM_T24BIN#	Text	Yes	/home/tafj/TAFJ/bin	/home/tafj/TAFJ/bin	Specify bin directory of T24 setup.

 Provide T24 DBTools details using:

T24 DBtools Details

This promptset provides T24 Dbtools username and password:

PKC.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_DBTOOLS_DETAILS

Input

Caption	Variable	Type	Description
DBTools Username	&UC4RB_TM_DBTOOLS_U#	Text	DBTools username
DBTools Password	&UC4RB_TM_DBTOOLS_P#	Password	DBTools password

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PKC.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT

Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login

Output

Output is printed in the job report. The T24 date is published in the following AE variable.

Caption	Variable
T24 Date	UC4RB_TM_T24_DATE#

7.10 Reporter Collect Action

This Action reads the COB completion data from the T24 database using the DBTools utility and inserts it into the reporting database from where the data will be read and displayed on the dashboard.

Action Name: **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.REPORTER_COLLECT**

Input

Caption	Variablename	Type	Required	Example	Description
T24 Date	UC4RB_TM_T24_DATE#	Text	Yes	2015-04-30	Specify date for which report should be collected

 Provide T24 Bin directory using:

T24 Bin Directory

This promptset provides the T24 bin directory path:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_BIN_DIRECTORY

Input

Caption	Variable	Type	Required	Default	Example	Description
T24 bin directory	&UC4RB_TM_T24BIN#	Text	Yes	/home/tafj/TAFJ/bin	/home/tafj/TAFJ/bin	Specify bin directory of T24 setup.

 Provide T24 DBTools details using:

T24 DBtools Details

This promptset provides T24 Dbtools username and password:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_DBTOOLS_DETAILS

Input

Caption	Variable	Type	Description
DBTools Username	&UC4RB_TM_DBTOOLS_U#	Text	DBTools username
DBTools Password	&UC4RB_TM_DBTOOLS_P#	Password	DBTools password

 Provide UXT24 directory using:


UXT24 Directory

This promptset provides the T24 bin directory path:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.UTX24_DIRECTORY

Input

Caption	Variable	Type	Required	Example	Description
UXT24 directory	&UC4RB_TM_UXT24#	Text	Yes	/opt/automic/t24	Specify directory of UXT24.

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT

Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login

Output

The response is printed in the job report.


7.11 Store to Database Action

This Action is used to store data in the database provided. It reads the job report of the REPORTER_COLLECT Action and prepare data to insert it in the database.

Action Name: **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.STORE_TO_DATABASE**

Input

Caption	Variable	Type	Required	Example	Description
Run ID	UC4RB_TM_RUNID#	Text	Yes	732017	Specify REPORTER_COLLECT action run Id.

 Provide DB Details using:

DB Details

This promptset provides DB Details:

PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.STORE_TO_DATABASE

Input

Caption	Variable	Type	Required	Default Value	Example	Description	Sample dashboard database
Database Type	UC4RB_TM_DB_TYPE#	Combobox	YES	MSSQL	MSSQL	Specify database type.	Server : 192.168.44.75 Database :T24_DASHBOARD_DB Username/Password : automic/automic Table Name : UNI_T24
Host Name	UC4RB_TM_DB_HOST#	Text	YES		localhost	Specify host name	
Port	UC4RB_TM_DB_PORT#	Text	No	1433	1433	Specify port number	
Username	UC4RB_TM_DB_USERNAME#	Text	YES			Specify database username.	
Password	UC4RB_TM_DB_PASSWORD#	Text	YES			Specify database password	
Database Name	UC4RB_TM_DB_NAME#	Text	YES		Sample DB	Specify database name.	
Table Name	UC4RB_TM_DB_TABLENAME#	Text	YES	Temp_Dashboard		Specify table name. Can not be more than 30 chars in length and must start with an alphabet.	

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT

Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login

Output

The response is printed in the job report.


7.12 Retrieve Dashboard Data Action

This Action populates the data from reporting database to the dashboard.

Action Name: **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.RETRIEVE_DASHBOARD_DATA**

Input

Caption	Variable	Type	Required	Default Value	Example	Description
Batch Start Date	UC4RB_START_DATE#	Text	No		2017-09-22	Specify Batch Start Date
Batch End Date	UC4RB_END_DATE#	Text	No		2017-09-22	Specify Batch EndDate

 Provide DB Details using:

DB Details

This promptset provides DB Details:

PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.STORE_TO_DATABASE

Input

Caption	Variable	Type	Required	Default Value	Example	Description	Sample dashboard database
Database Type	UC4RB_TM_DB_TYPE#	Combobox	YES	MSSQL	MSSQL	Specify database type.	Server : 192.168.44.75 Database :T24_DASHBOARD_DB Username/Password : automic/automic Table Name : UNI_T24
Host Name	UC4RB_TM_DB_HOST#	Text	YES		localhost	Specify host name	
Port	UC4RB_TM_DB_PORT#	Text	No	1433	1433	Specify port number	
Username	UC4RB_TM_DB_USERNAME#	Text	YES			Specify database username.	
Password	UC4RB_TM_DB_PASSWORD#	Text	YES			Specify database password	
Database Name	UC4RB_TM_DB_NAME#	Text	YES		Sample DB	Specify database name.	
Table Name	UC4RB_TM_DB_TABLENAME#	Text	YES	Temp_Dashboard		Specify table name. Can not be more than 30 chars in length and must start with an alphabet.	

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT

Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login

Output

The response is printed in the job report.

7.13 COB Monitoring Action

This Action populates the data from the reporting database to the dashboard.

Action Name: **PCK.AUTOMIC_TEMENOS_T24.PUB.ACTION.COB_MONITORING**

Input

Caption	Variable	Type	Required	Default Value	Example
Batch End Date	UC4RB_END_DATE#	Text	No	2017-09-22	Specify Batch End Date
Batch End Date	UC4RB_END_DATE#	Text	No	2017-09-22	Specify Batch End Date

 Provide T24 DBTools details using:


T24 DBtools Details

This promptset provides T24 Dbtools username and password:

PCK.AUTOMIC_TEMENOS_T24.PRIV.PROMPTSET.T24_DBTOOLS_DETAILS

Input

Caption	Variable	Type	Description
DBTools Username	&UC4RB_TM_DBTOOLS_U#	Text	DBTools username
DBTools Password	&UC4RB_TM_DBTOOLS_P#	Password	DBTools password

 Provide Agent and Login information using:

Overwrite Agent Promptset

This promptset provides agent and login information:

PCK.ITPA_SHARED.PRIV.PROMPTSET.OVERWRITE_AGENT

Input

Caption	Variablename	Type	Required	Description
Overwrite Agent	AGENT#	Text	Yes	Overwrites the default agent
Overwrite Login	LOGIN#	Text	Yes	Overwrites the default login

Output

The response is printed in the job report.

8 System Configuration and Connection Parameters

System Configuration Details

System configuration information will be provided to the actions using the following VARA object:

VARA PCK.AUTOMIC_TEMENOS_T24.PUB.VARA.HEADLESS_AGENT_LOGIN

Input

Key	Example	Description
AGENT	UNIX_AGENT	Name of the agent running on the Temenos T24 machine.
LOGIN	UNIX_LOGIN	Login object name of the agent running on the Temenos T24 machine.
RA_Agent	SOAP_AGENT	Name of the Webservice agent.
DB_AGENT	UNIX_44_135	Name of the agent where the sqlcmd tool is installed. SQLCMD utility is used to interact with the MS SQL database.
DB_AGENT_LOGIN	LOGIN.UNIX	Login object name of the agent where the sqlcmd tool is installed.
DB_HOST_NAME	192.168.1.1	Database host name or IPAddress. This database will be used to store the T24 monitoring data which will be further used by the dashboard to display COB execution metrics.
DB_NAME	T24_DASHBOARD_DB	Database name.
DB_USERNAME	automic	Database server username.
DB_PASSWORD	automic	Database server password.
DB_PORT	1433	Database port number.
TABLE_NAME	UNI_T24	Table name where you want to store the data. If this table does not exist already, it will be created automatically.

Connection Parameters


This VARA provides connection parameters. Value1 in the VARA refers to the parameter for a UNIX system and value2 refers to the parameter for a WINDOWS system

PCK.AUTOMIC_TEMENOS_T24.PUB.VARA.HEADLESS_CONN_CONFIG

Input

Key	Example	Description
BASE_URL	http://192.168.44.27:8080/TAFJServices	Soap web service URL of T24 system
COMOHOME	/home/t24/T24_H2/UD	Folder path where the T24 Agent logs file(s) are located.
DBTOOLS_USERNAME	t24user	DBTools username
DBTOOLS_PASSWORD	*****	DBTools password
T24_COMPANY	GB0010001	T24 specific code/tag for the bank country code.
T24_USER_LOGIN	AUTO01	T24 username
T24_USER_PASSWORD	*****	T24 user password
T24BIN	C:/Temenos/TAFJ/bin	Bin directory of T24 setup where the DBTools are located.
OUTPUT_DIR	/opt/automic/t24/t24Data	Directory where you want to generate the COB monitoring data. This data will be further used by the dashboard to display COB Activity.

Transfer Files

 This step can be skipped if the TAFJ and Tomcat servers are running on the same machine. Otherwise, the specified directory must be copied (as specified by the output directory parameter OUTPUT_DIR) from the TAFJ machine to the Tomcat machine.

To transfer the files, update the following parameters in the **PCK.AUTOMIC_TEMENOS_T24.PUB.JOBF.TRANSFER_OUTPUT_FILES** AE object based on your environment:

- Agent and login information.
- Source Settings: Add name and login details for the Agent running on the TAFJ Server. File path should be (OUT_DIR)*.txt. where OUT_DIR is the path used in PCK.AUTOMIC_TEMENOS_T24.PUB.VARA.HEADLESS_CONN_CONFIG.
- Destination Setting: Add name and login details for the Agent running on the Tomcat Server. File path should be <Tomcat-HOME>\webapps\ROOT\WEB-INF\cgi*.txt.

9 Templates

Restart TSM Workflow

This template is used to restart TSM in phantom mode. Using connection parameters, it will stop the services on Temenos system. Once all the agents are successfully stopped, it will start the temenos services and then TSM in phantom mode.

Template name: **PCK.AUTOMIC_TEMENOS_T24.PUB.TEMPLATE.RESTART_TSM**

Start COB Workflow

This template is used to start COB. Using connection parameters, it will verify the business dates on the Temenos system and clear the error files, then it will stop the services on the system. Once all the agents are successfully stopped, it will start the Temenos services, COB service and TSM correspondingly.

Template name: **PCK.AUTOMIC_TEMENOS_T24.PUB.TEMPLATE.START_COB**

Start TSM Workflow

This template is used to start TSM in phantom mode.

Template name: **PCK.AUTOMIC_TEMENOS_T24.PUB.TEMPLATE.START_TSM**

10 Configuring Temenos T24 Dashboards

Dashboards help you keep track of the Close of Business (COB) progress. Two different Dashboards provide you with an overview of the COB process: **COB Monitoring** and **Predictive/Historical Analysis**.

Prerequisites

The following components must be installed and configured:

- [Setting up the Temenos T24 System](#)
- [Setting Up the Tomcat Server](#)
- [Setting Up the MS SQL database](#)
- [Setting Up the ARA Dashboard Configuration](#)

Setting up the Temenos T24 System

1. T24 system should be installed and COB should be configured correctly.
2. Perl should be installed and set as executable in Path environment variable.
3. Agent OS should be installed.
4. JRE 1.7 or higher should be installed and set as executable in Path environment variable.
5. If T24 system is installed on Windows, then cut.exe and tail.exe should be available and set as executable in Path environment variable.

Setting Up the Tomcat Server

1. Install tomcat version 7 or higher.
2. Install Perl on the machine where the Tomcat webserver is running (Perl is needed to run the cgi scripts)
3. Configure Tomcat to allow cgi scripts [E.g. <Tomcat-HOME>\conf]
Uncomment the following lines in web.xml:

```
<servlet>
<servlet-name>cgi</servlet-name>
<servlet-class>org.apache.catalina.servlets.CGIServlet</servlet-
class>
<init-param>
<param-name>debug</param-name>
<param-value>0</param-value>
</init-param>
<init-param>
<param-name>cgiPathPrefix</param-name>
<param-value>WEB-INF/cgi</param-value>
</init-param>
<init-param>
<param-name>executable</param-name>
<param-value>C:\Users\mho\AppData\Local\Atlassian\SourceTree\git_
local\bin\perl.exe</param-value>
</init-param>
<load-on-startup>5</load-on-startup>
</servlet>
```

4. Uncomment the CGI Gateway mapping in the `web.xml` file:

```
<!-- The mapping for the CGI Gateway servlet -->
<servlet-mapping>
<servlet-name>cgi</servlet-name>
<url-pattern>/cgi-bin/*</url-pattern>
</servlet-mapping>
```

5. Configure the `<Tomcat-HOME>/conf/context.xml` and add the `privileged=true` attribute.

```
<Contextprivileged="true"><!-- Default set of monitored resources. If
one of these changes, the --><!-- web application will be
reloaded. --><WatchedResource>WEB-
INF/web.xml</
WatchedResource
><WatchedResource>${catalina.base}/conf/web.xml</WatchedResource><!--
Uncomment this to disable session persistence across Tomcat restarts
--><!--<Manager pathname="" />--></Context>
```

6. Download the Temenos Pack v2.1.0 from the Automic Automic Marketplace.
7. Extract the zip and save the cgi scripts under `<UnextractedPackage>\t24resources\cgi` to `<Tomcat-HOME>/webapps/ROOT/WEB-INF/cgi`
8. Save the `t24.zip` resources to the `<Tomcat HOME>/webapps` directory.
9. Install the AE Agent on the machine where tomcat is installed.


Setting Up the MS SQL database

1. Install the MS SQL database server.
2. Configure the Database and set up username/password.
3. SQLCMD utility should be installed and set as executable in the PATH environmental variable.
4. Install the AE Agent on the same machine where SQLCMD is installed.

Setting Up the ARA Dashboard Configuration

1. Install the Temenos 2.1.0 Action Pack.
2. Configure the Dashboard setting URL to point to the correct cgi endpoint, i.e. according to Tomcat Configuration and cgi files.

Format: `http://<ServerAddress>:TomcatPort/cgi-bin/jobmon.cgi` .E.g. `http://localhost:8080/cgi-bin/jobmon.cgi`

 The Refresh Interval can be also changed here (default: 10 seconds).

COB Monitoring

The screenshot shows the COB Monitoring dashboard in the Temenos T24 system. The dashboard is titled "T24 Near Real Time Monitoring" and features a sidebar with navigation options like "My Dashboards", "Public Dashboards", and "T24 Overall Average Executions". The main content area is divided into three sections:

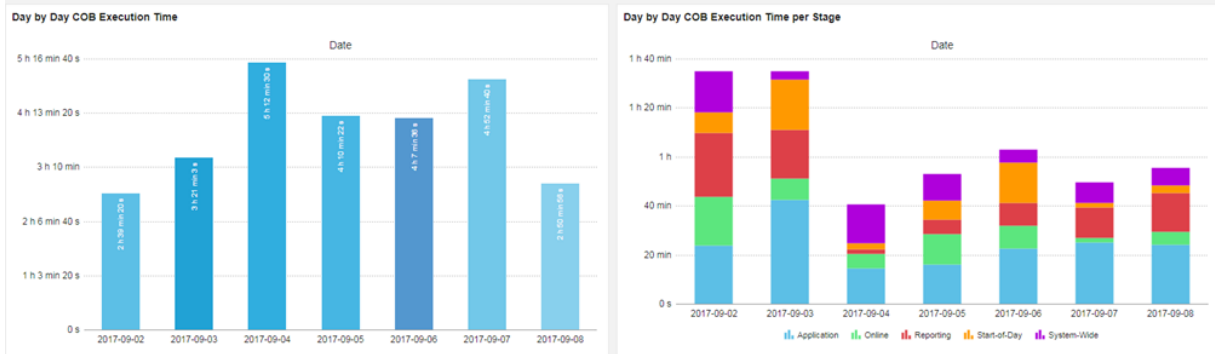
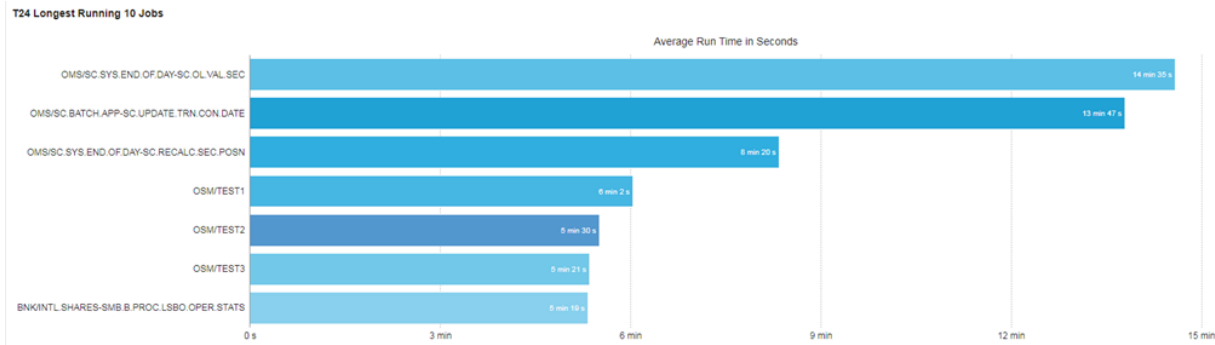
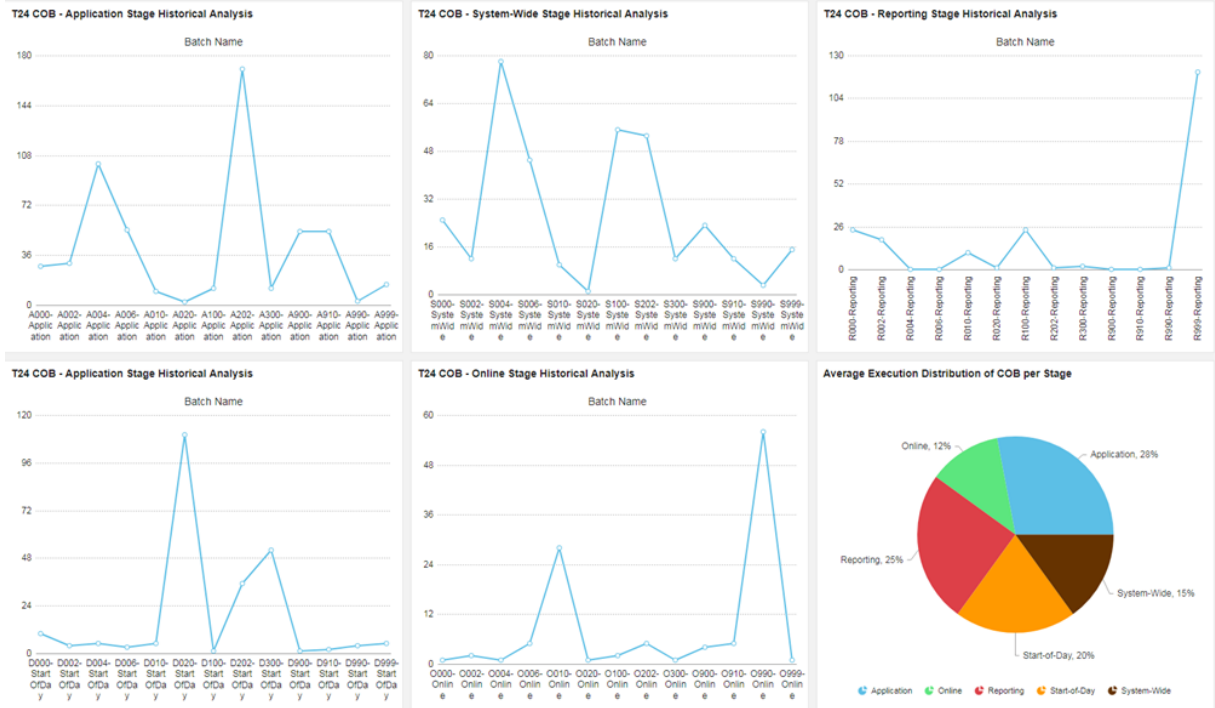
- COB Monitor:** A summary table showing COB Stage, Running, Error, Completed, Ready, Total, and Percentage Completed. The total percentage completed is 72.04%.
- Job Monitor:** A list of jobs with columns for Company/Job Name, Completion Status, COB Stage, Batch Date, and Start Time. The jobs are listed in descending order of completion time.
- T24 Near Real Time Monitoring:** A table showing Agent, Job List, COMO Entry, and Record Count. The jobs are listed in descending order of record count.

The COB Monitoring dashboard is generated by the following cgi scripts:

- cobmon.cgi
- jobmon.cgi
- locks.cgi

Predictive/Historical Analysis

This dashboard represents historical data as graphics to help customers analyze the COB process in detail. E.g. Longest Running jobs, day-by-day execution time, execution time per stage (Application, System-Wide, Reporting, Start of the day, Online).



11 About Automic Software, Community and Support

This topic introduces the Automic Software company and how to leverage the full potential of our solutions to you.

You can also obtain Automic documentation online from docs.automic.com.

About Automic

Automic is the world's most comprehensive platform in automating businesses. Founded 1985, Automic pioneered the largest, independent, globally deployed automation platform which powers the enterprise, application and infrastructure. Now, as the consumerization of IT accelerates, Automic is re-imagining how organizations integrate next generation service models such as Cloud, DevOps and Big Data. Today, our software automates tens of millions of operations a day for over 2,000 customers worldwide. We challenge conventional thinking, enabling our customers to be faster, smarter, in control. Automic – the standard in business automation.

Find out more at our website www.automic.com.

Global Headquarter: Automic Software GmbH, Am Europlatz 5, 1120 Vienna, Austria

Download Center

The Automic Download Center (downloads.automic.com) is the place where you find product downloads, documentation, release notes and information on new releases and hot-fixes about your Automic solution.

Marketplace


The [Automic Marketplace \(https://marketplace.automic.com/\)](https://marketplace.automic.com/) features hundreds of business automation templates and solutions for enterprise automation needs including workload automation, service orchestration, DevOps initiatives, big data operations and social media outreach. DevOps engineers can also access a broad range of open-source containers to facilitate rapid application release automation. Users are able to provide ratings, review and feedback on existing plugins, get support and request new plugins.

Automic Community

Join the Automic Community (community.automic.com) to talk with other users from around the world to learn how they optimize their business automation with Automic. Interact with the Automic Team to get ONE Automation tips and tricks straight from the source.

Technical Support

Our Technical Support Team (support@automic.com) is ready to support you, anytime and anywhere. Three support centers located in Europe, the United States, and Asia Pacific build the core of the Automic support organization.


 For information on the files the Technical Support team may need to assist you efficiently see:
[Technical Support](#)

Training Services

We offer a range of training options on how to get the most out of your Automic solution. Depending on your location, either open training sessions at an Automic Software Service Center, or personalized training sessions at your company's site suits best. Visit the training site and get detailed information about currently offered courses: <http://automic.com/about/training/>

Automic Ideas

Do you have a suggestion that could make our products even better? We would love to hear it! Your input is key to our success. We encourage you to submit and vote for ideas to improve Automic products at <http://ideas.automic.com/>.

 An Automic Support account is required to log in.
