

# IT Automation Conductor [Tutorial]

**%In this document, "Exastro IT Automation" is described as "ITA".** 

Version 1.7.1 Exastro developer

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# 1. Introduction



# 1.1 About this document

#### Main menu

• This document introduces the Conductor menu group.



# 2. About Conductor



# 2.1 About Conductor

 Conductor specifies Movements into one sequence and links it to an operation before executing it.



# 2.2 Conductor features

- While the Conductor Function has ,in similarity to the Symphony function, an execution function, it also contains the following functions.
- Hence, Conductor allows for execution of more complicated jobflows.
- Parallel movement executions
  - Ability to call other jobflows
  - Conditional branching according to the execution result of movement



# 2.3 Conductor Function Description (1/11)

#### The main menus the Conductor menu group and their functions are as following

#### ∃ Menu

#### Main menu

Conductor interface information

Conductor class list

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#### **①Conductor class edit**

Create an operation using previously created movement.

#### ②Conductor execution

Execute operations.

#### **3**Conductor confirmation

Confirm previously created operations.

#### **(4)**Conductor Regularly execution

Register operations and configure regularly executed jobflows.

# 2.3 Conductor Function Description (2/11)

## Conductor class edit (1/4)

• In the "Conductor class edit" menu, Movements and different functions can be added and deleted.



# 2.3 Conductor Function Description (3/11)

#### Conductor class edit (2/4)

•Users can use the Conditional branch function by selecting it from the "Function" tab on the right side of the screen.



# 2.3 Conductor function description (4/11)

#### Conductor class edit (3/4)

 By selecting multiple Nodes, users can use the buttons in the menu on the left to align the items. To select multiple Nodes, drag the mouse while holding the mouse button and drag over the Nodes you want to select or hold the shift key and press the Nodes you want selected individually.

For more information about the Node tab, please refer to this manual.



# 2.3 Conductor menu functions (5/11)

#### Conductor class edit (4/4)

• The following explains the different functions available. For more details, please refer to <u>this manual</u>.

Figure	Namee	Description.	Figuree	Namee	Description.
S Start	Conductor start.	Start of Conductor+		Parallel merge.	Execute all process when all Nodes connected to this Node are finished. e
	Conductor end+	End of Conductor. % If there are multiple Conductor end, the operation will end until all Conductor end are complete	Andre Forente Construction C	Movement <sup>2</sup>	Execute Movement**
O PAUSE D O	Conductor pause.	Pauses the Jobflow temporarily.+/ Cancel the pause to move on to next step. +/			
	Conductor calle	Calls another registered Conductor class and executes it. $\varphi$	C C Terrafuer		
	Conditional branch+2	Branch process according to the result of "Movement" and "Conductor call" that the Node connects to. +/ Status that can be specified is as follows.+/ • Normal end+/ • Abnormal end+/ • Emergency stop+/ • Preparation error+/ • Unexpected error+/ • SKIP complete+/			
	Parallel branch↔	Execute "Movement" or "Conductor call" in parallel.+/ W The maximum parallel process number depends on the configuration and server spec of ITA. +/			

# 2.3 Conductor Function Description (6/11)

## Conductor execution(1/2)

• Choose and execute the created Conductor in the "Conductor execution" menu.

Description	
Scheduling	Use this box to schedule when you want the
Specify the scheduled date/time in (YYYY/MM/DD HH:MM) Immediately execute when blank. Scheduled date/time	Conductor to run.
Conductor [filter]	⊽Open
Conductor [List]	△Close
Select       Conductor class ID       Conductor name       Explanation       Remarks       Last update date/time       Last updated by         1       1       sample1       2020/09/02 18:28:03       System Administrator         2       Test       2020/10/08 09:26:00       System Administrator	Select Conductor and Operation.
Operation [Filter]	⊽Open
Operation [List]	△Close
Select       No.          Operation ID         Operation ID         Operation name         Scheduled date for execution         Last execution date         Remarks         Last update date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         Last         update         date/time         legacy         U         update         date/time         legacy         U         update         date/time         legacy         U         update         date/time         legacy         U         update         legacy         U         update         update	st updated by⊖ execution procedure execution procedure

# 2.3 Conductor Function Description (7/11)

## Conductor execution (2/2)

• The conductor and operation selected at the top of the page will be displayed.



# 2.3 Conductor (8/11)

#### Conductor confirmation

 Check the execution status from the "Conductor Confirmation Menu".
 Clicking the movement will



# 2.3 Conductor Function Description (9/11)

## •Conductor check (1)

In the "Conductor" Menu group -> "Conductor list" menu ->"List" Sub-menu, users can download the input/results data for each Conductor.

Description							
Display filter							
Discard	d Conductor instan	ce ID Conductor name	Operation Name		Executing user	Emergency stop flag	
Exclude discarded	records 🗸						
	<ul> <li>Search from pullo</li> </ul>	own Search from pulldowr	<ul> <li>Search from pulldown</li> </ul>				
4							
Filter	Clear filter						
Auto-filter							
- Auto Intel							
List							
Conductor insta	nce ID⊖ d display Conductor na	me⊖ Operation Name⊖ Statu	s⊖ Executing user⊖	Emergency stop flag	nput data set (zip)	Result data set (zip)	cheduled (
	2 stails Conductor 2	test operation Abend	System Administrator	Not issued	download(.zip)	download(.zip)	
	1 tails Conductor 1	test operation Abend	System Administrator	Not issued	download(.zip)	download(.zip)	
4							
Filter result count: 2	1						
Output E	ccel						

# 2.3 Conductor Function Description (10/11)

#### •Conductor Routine Executions (1/2)

• In the "Conductor Regularly execution" menu, users can manage regularly executed operations.

Display filter	∆Close
Discard       Periodic work execution ID       Conductor class name       Operation name       status         Exclude discarded records                Exclude discarded records                 V       Search from pulldown	Next execution date     Last update date/time     Last updated by       ~     ~     ~       ~     ~     ~       ✓ Search from pulldown
4 Filter Clear filter	A detailed schedule can be set from the" Schedule Settings" button.
List/Update	⊽Open
Register	∆Close
Periodic work execution ID Conductor class name Operation name status Schedule cings	Next execution date Start date <sup>®</sup> End date pe
Auto-Input	
‰*is a required item.	
Back Register	

# 2.3 Conductor Function Description (11/11)

#### Conductor Routine Executions (2/2)

• "Schedule settings" allows user to set detailed settings such as the regular execution period and the period for stopping work.

Set a schedule	×										
Work period * Start date: 2020/10/19 11:00 End date	2020/10/19 11:00 End date: 2020/10/29 23:27 Clicking here will display a calendar.										
Schedule											
Time	* Interval: 5 Time	4		0.1			020				
Day		1	<b>n</b>	OCI	ober	· • 2	2020	. •	<u> </u>		
Week									11:00		
Month(Specify day)		Sun	Mon	Tue	Wed	Thu	Fri	Sat	12:00		
<ul> <li>Month(Specify day of week)</li> </ul>		27	28	29	30	1	2	3	13:00		
End of month		4	5	6	7	8	9	10	14:00		
Work suspension period		11	12	13	14	15	16	17	15:00		
2020/10/06 23:34 ~ 2020/10/14 23:34		18	19	20	21	22	23	24	16:00		
Noto		25	26	27	28	29	30	31	-		
	* is a required field										

# 2.4 Conductor workflow

The Conductor workflow is as follows.
 Details can be found in the Practice document.



