

ITA_User Instruction Manual

Conductor

- Version 1.11 -

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% [Exastro IT Automation] is written as [ITA] in this document.

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Introduction

This document describes the functions and operation methods of the ITA Conductor function.

1 Overview of ITA Conductor

This chapter explains the functions and operation methods of the Conductor menu. Conductor menu provides the following functions that are commonly required to perform work using ITA.

2 ITA Conductor menu screen configuration

This chapter explains the menu and screen configuration of the ITA Conductor menu.

2.1 ITA Conductor menu list

The ITA common/Conductor menu is shown below

No	Menu Group	Menu / Screen	Description
1		Conductor interface information	Maintain (View/Register/Update/Discard) settings such as shared directory path of Movement when executing Conductor
2		Conductor class list	Maintain (View/Discard) Conductor class. Click "Details" to move to Conductor class edit menu.
3	Conductor	Conductor class edit	Edit Conductor class
4	Conductor	Conductor execution	Execute Conductor operation
5		Conductor confirmation	Check the result of Conductor operation execution
6		Conductor list	View the list Conductor (execution history) Click "Details" to move to Conductor confirmation
7		Conductor regularly execution	Manage Conductor operations that executes routinely.

Table 2.1-1 ITA Conductor screen list

3 ITA Conductor user instruction procedure

3.1 Jobflow

The standard ITA Conductor jobflow is as follows.

More detailed information regarding each operation is listed in the next section.

- For information regarding registering Device information and Operations, please refer to "Exastro-ITA_User_Instruction_Manual_Basic-Console".
- > For information regarding registering Movements, please refer to the different driver's manuals.
- It is possible to use the Movement's shared directory path, even when Conductor is running. If you need information to be delivered between Movements, you can do so by using a shared directory path.

Ansible_Driver and Terraform_Driver and Terraform_CLI_Driver can use this function.

For more information, please see "Exastro-ITA_User_Instruction_Manual_Ansible-driver" and "Exastro-ITA_User_Instruction_Manual_Terraform-driver"

and "Exastro-ITA_User_Instruction_Manual_Terraform-CLI-driver"

The workflows done in both "Conductor call" and "Symphony call" have their own common directory. (Movements that strides over the workflows are not shared)



Figure 3.1-1 Jobflow

4 Function and operation method description

4.1 ITA Conductor

4.1.1 Conductor interface information

(1) In [Conductor interface information] screen, users can set the path of shared directory for each Movement executed by Conductor and the refresh interval for [Conductor confirmation] screen.

	Conductor Conduc
≡ Menu	
Main menu	Description \forall Open
Conductor interface information	Display filter \triangle Oose
Conductor class list	Discard No Data relay storage path Condition monitoring Last update date/time Last updated by
Conductor class edit	V Search from pulldown V Search from pulldown V Search V Search from pulldown
Conductor execution	
Conductor confirmation	
Conductor list	Filter Clear filter
Conductor Regularly execution	M Auto-filter
	List $ riangle Oose$
	Update Discard No 🖗 Data relay storage path 🖨 Condition monitoring cycle (unit: millisecond) 🔶 Rema Last update date/time. Last updated by
	Update 1 /root/ITA/data_relay_storage/conductor 3,000 2015/04/01 10:00:00 System Administrator
	Filter result count: 1
	Output Excel
Contact administrator	

Figure 4.1-1 (Conductor interface information) Menu

(2) The list of common items on the registration screen is as follows.

Table 4.1-1	List of Registration	Screen Items	(Conductor interface information)
-------------	----------------------	--------------	-----------------------------------

Item	Description	Input	Input	Restrictions
		Required	type	
Data relay	When executing Conductor, enter the directory shared	0	Manual	Maximum length
storage path	by each Movement with the directory path viewed		input	128 bytes
	from the ITA server. For the path viewed from Ansible,			
	and Ansible-Tower server, please refer to the interface			
	information in the instruction manual for Ansible			
	Driver. Connection between terraform is obtained			
	from REST API without common directory. Therefore,			
	Directory path is used in Terraform-Driver and			
	Terraform-CLI-Driver.			
Status monitoring	Enter the interval for refreshing the display of "4.1.5	0	Manual	Minimum value
cycle (unit:	Conductor execution". Generally, it is recommended to		input	1000ms
millisecond)	set the number to 3000 millisecond.			
Remarks	Free description field	_	Manual	-
			input	

4.1.2 Conductor notification definition

In "Conductor notification definition" menu sets definition for notification performed in Conductor. Notification is sent using Webhook.

Registered Conductor notification definition sets notification status in "Notice" within "Conductor class list" during process.

Exastro	Conductor					U Chan	ser name [System Login ID ge password	Administrator] [administrator] Logout
≡ Menu								
Main menu	Description							⊽Open
Conductor interface	Display filter							∆Close
Information	Discard	Conductor class ID	Conductor name	Explanation	last u	ndate date/time	last undate	d by
Conductor class list	Exclude discarded records 🔻	~				~		
Conductor class edit		▼ Search from pulldown	▼ Search from pulldown	▼ Search from pulldown	•		▼ Search from p	ulldown
Conductor execution								
Conductor confirmation	4							+
Conductor list	Filter	Clear filter						
Conductor Regularly execution	🗷 Auto-filter							
	List							△Close
	Discard Conductor class IL	1 Details Sample1	tor name⇔ Explanation	1⇔ Kemarks⇔ Last Up 2020/08/	/26 09:52:36	System Administrato		
	Filter result count: 1							
	Output Excel							
Contact administrator								

Figure 4.1-2 (Conductor notification definition) Menu

(2) Details of (Conductor notification definition) Menu > (List) Sub menu are listed below

Item	Description	Input Boguirod	Input	Restrictions
Notification name	Enter notification name	o	Manual	
Class(CURLOPT_URL)	Enter class URL	0	Manual	
Header (CURLOPT_HTTPHEADER	Enter HTTP header in JSON format	0	Manual input	
) Message (CURLOPT_POSTEIELDS)	Enter message according to service	0	Manual	*
PROXY / URL (CURLOPT_PROXY)	Enter URL if PROXY setting is needed.		Manual input	
PROXY / PORT (CURLOPT_PROXYPORT)	Enter PORT if PROXY setting is needed.		Manual input	
Confirmation URL(FQDN)	Enter FQDN used in input variable for confirmation URL		Manual input	
Other	Enter in JSON format All option corresponding, curl_setopt() are available. Refer to cURL function for PHP		Manual input	
Start time	Enter to stop notification		Manual input	
End time	Enter to stop notification		Manual	

Table 4.1- 1^[List] Sub menu

		input	
Remarks	Free description field		

% For available ITA variables, see the following table. Refer to $\lceil 5.1.1$ Conductor \rfloor for Teams, Slack input.

Table 4.1-2 Conductor class list ITA variables

ITA variables	Selected variable	Remarks
CONDUCTOR_INSTANCE_ID	Conductor instance ID	
CONDUCTOR_NAME	Conductor name	
OPERATION_ID	Operation ID	
OPERATION_NAME	Operation name	
STATUS_ID	Status ID	
STATUS_NAME	Status name	
EXECUTION_USER	Execution user	
TIME_BOOK	Book time	
TIME_START	Start time	
TIME_END	End time	
JUMP_URL	Jump URL	*

%"Operation confirmation URL(FQDN)" input is used as output for work confirmation URL as following.

<Work confirmation

URL(FQDN)>/default/menu/01_browse.php?no=2100180005&conductor_instance_id=X

Ex: When work confirmation URL(FQDN) value is [http://exastro-it-automation.local]

http://exastro-it-

automation.local/default/menu/01_browse.php?no=2100180005&conductor_instance_id=X

4.1.3 Conductor class list

 In the [Conductor class list] screen, users can view or discard registered Conductor classes. Click the "Details" button to move the edit screen "<u>4.1.4 Conductor class edit</u>".

Exastre	Conductor					Use Change	r name [System Admini Login ID [admini password Logo
Menu							
in menu	Description						⊽Op
nductor interface prmation	Display filter						∆Clo
dustan dara list	Discard	Conductor class ID	Conductor name	Explanation	Last upd	ate date/time	Last updated by
Iductor class list	Exclude discarded records 🔻	~)~(
nductor class edit		 Search from pulldown 	 Search from pulldown 	 Search from pulldown 	•		 Search from pulldowr
ductor execution							
luctor confirmation	4						
luctor list	Filter	Clear filter					
uctor Regularly ition	🗹 Auto-filter		-				
	List						∆Cla
	Discard Conductor class I)⇔ Detailed display⇔ Cond	uctor name⇔ Explanatio	n⇔ Remarks⇔ Last u	pdate date/time⊜	Last updated by⊜	
	Discard	1 Details Samp	el	2020/08	/26 09:52:36	System Administrator	
	Filter result count: 1						
	Output Excel						
tact administrator							

Figure 4.1-3 (Conductor class list) Menu

4.1.4 Conductor class edit

- (1) "Conductor class edit"
 - Users can register Conductor names and parts that makes up the work flow (also called • Nodes)

 Table 4.1-4
 Conductor class edit screen mode list

This screen has two different modes. Please see the table below for more information. •

٠		

Mode	Description
EDIT	 The mode that users can edit Conductor class
	 Default mode of Conductor class edit screen
	•Switch to VIEW mode by clicking register/update button in
	EDIT mode
VIEW	 The mode that users can only view Conductor class
	• The mode that is displayed when clicking the "Details" button
	in Conductor class list
	•Switch to EDIT mode by clicking the edit button in VIEW mode

For more information about operating the different modes, please refer to "Table 4.1-18 "Conductor class edit" Menu Operation list.

The contents displayed in the "Detailed Information "section changes depending on the • selected Node

	Conductor	B) Detailed information
≣ Menu	1017 (HIL)	
Main menu		Conductor
Conductor interface information		Norma 1
Conductor class list	Nede	
Conductor class edit	INOUE	Detailed
Conductor execution		Information
Conductor list		Meanweth Process of
Conductor Regularly execution	Drag and drop	Hiter : + ID Movement name 1 NV3
	A) Node list	Node list
	Registration	
Contact administrator		

Figure 4.1-4 Submenu screen (Conductor class edit: EDIT) •

Node list

The Nodes available are displayed in the bottom right area of the screen The Nodes can be created from the following tabs.

- i. Movement tab
 - ♦ List of ID and name of registered Movement.
- ii. Function tab
 - ♦ Conductor end
 - ♦ Conductor pause
 - ♦ Conductor call
 - ♦ Symphony call
 - ♦ Conditional branch
 - ♦ Parallel branch
 - ♦ Parallel merge
 - ♦ Status File branch
- (2) The following table shows the different conductors and their function.

Table 4.1-5 Node list					
Figure	Name	Description			
Conductor OUT Start	Conductor start	Start of Conductor			
	Conductor end	End of Conductor %If there are multiple Conductor end, the operation will end until all Conductor end are complete.			
	Conductor pause	Pauses the workflow temporarily.			
		Cancel the pause to move on to next step.			
IN Conductor call OUT	Conductor call	Calls another registered Conductor class and executes it. When original Conductor shuts down with error, Conductor executes process as normal call and does not have effect on original status.			
IN Normal end	Conditional branch	Branch process according to the result of "Movement" and "Conductor call" that the			
Other O		Status that can be specified is as follows.			
		• Abnormal end			
		•Emergency stop			
		•Preparation error			
		•Unexpected error			
		•SKIP complete			
		•Warning end			

	Parallel branch	Execute "Movement" or "Conductor call" in parallel. % The maximum parallel process number depends on the configuration and server spec of ITA.
O STADBY	Parallel merge	Execute all process when all Nodes connected to this Node are finished.
status file due	Status file branch	Branches off process based on results of work directory of Movement file.
Image: State	Movement	Execute Movement

The following section lists the different restrictions for using Nodes.

IN/OUT of all Nodes have to be connected.



Figure 4.1-5 Node restriction (Correct example: Parallel branch)

If you want to use a Parallel merge node, you must also use a Parallel branch



Figure 4.1-6 Node restriction (Bad example: Parallel branch)

•Flow that is branched by Conditional branch can't be merged to Parallel merge.



Figure 4.1-7 Node restriction (Bad example: Conditional branch)

•For Parallel branch, Conditional branch, Parallel merge, and Conductor pause, it is invalid to connect them to same type of Node.



Figure 4.1-8 Node Restriction (Bad example: Successive use)

It is invalid to assign the Conductor that is currently begin updated to Conductor Call.



Figure 4.1-9 Node restriction (Bad example: Conductor call)

- ·User can set Nodes by drag and drop the Nodes on the bottom-right side of screen
- •Users can memo the description of operation or comment in the Note column of each node.
- The column is only for reference on the web, it doesn't affect operation execution.
- ·Click the "Register" button after setting up Nodes to register the Conductor class.

Detailed Information

In the upper left area of the screen, users can see detailed information about the selected node.

- •The name of the tab changes depending on the node selected.
- i. Conductor name tab
 - •This tab is displayed when no node is selected
 - The items found in the tab are as following.

Item	Description	Input Required	Input type	Restriction
ID	Unique ID for Conductor is auto-numbered	-	Auto input	-
Name	Enter any desired name for Conductor class	0	Manual	-
			input	
Notice	Select notification to perform	-	Select	*
	Select multiple notification for each status.			
Role	Select the role that have access to this Conductor.		Select	
	If no role is selected, all role will be have access.			
Note	Enter description and comment for Conductor class	-	Manual	-
			input	

Table 4.1-6"Conductor name" Tab

※selectable notifications are registered in "エラー! 参照元が見つかりません。 Conductor notification definition"

Conductor name
ID : Auto numbering
Name :
Permission role
Role : System Administrator
Permission role select
Note

Figure 4.1-10 "Conductor" name tab

Notice list							×
Notification name	Executing	Executing (delay)	Normal end	Warning end	Emergency stop	Abend	Unexpected error
Notification sample							
Carse					ision Cansel		

Figure 4.1-1 "Notice" popup

Permission r	role select	×
Select ID	D Nase	
2 1	System administration	
2	Role1	
3	Role2	
	Decision	Delete

Figure 4.1-12 "Permission role select" popup

ii. Movement details and input items

- •This tab is displayed if a Node is selected in the Node list Movement tab.
- The items found in the tab are as following.

ltem	Description	Input required	Input type	Restriction
Movement ID	ID of the selected Movement is displayed.	-	Auto input	-
Orchestrator	Orchestrator name of the selected Movement is displayed.	-	Auto input	
Name	Name of the selected Movement is displayed.	-	Auto input	-
Default skip	Target operation will be skipped if checked.	-	Manual	
	This is a parameter that can be changed in Conductor		input	
	execute screen.			
Operation	· Click the Select button to select Operation from the	-	Select	-
	displayed list.			
	 The name of the Operation class will be displayed. 			
Note	Enter a comment or a description regarding the Node.		Manual	
			input	

Fable 4.1-7 "Movement" ta	ab
---------------------------	----

Movement	
Movement ID :	1
Orchestrator :	Ansible Legacy
Name :	Legacy1
Default skip :	
Operation sele	
Operation :	
Select Clea	r
Note	

Figure 4.1-13 "Movement" tab

Nane
Operation1
Test Operation
Operationtest
Basic settings all
ope1
operation

Figure 4.1-14 "Operation select" popup

iii. Node (common) details and input items

• This tab is displayed if "Conductor start", "Conductor end" or "Conductor pause" is selected in the Node list's Function tab.

•The items found in the tab are as following.

Table 4.1-8"Function" tab

ltem	Description	Input required	Input type	Restriction
Туре	Type of selected Node is displayed	-	Auto input	-
Note	Enter a comment or a description regarding the Node.	-	Manual	-
			input	



Figure 4.1-15 "Function" tab

iv. Conductor call details and input items

• This tab is displayed if "Conductor call" is selected in the Node list's Function tab.

•The items found in the tab are as following.

Table 4.1-9	"Conductor	call"	tab

ltem	Description	Input required	Input type	Restriction
Default skip	Target operation will be skipped if checked.	-	Manual	-
	This is a parameter that can be changed in Conductor execution screen.			
Conductor	·Click the Select button to select Conductor class from the	0	Select	-
	displayed list.			
	 The name of the Conductor class will be displayed. 			
Operation	Click the Select button to select Operation from the	-	Select	-
	displayed list.			
	 The name of the Operation class will be displayed. 			
Note	Enter a comment or a description regarding the Node.		Manual	
			input	

Conductor call
Default skip : 📃
Conductor select
Conductor : [1]:SAMPLE1
Conductor select Clear
Operation select Operation : Operation select Clear
Note

Figure 4.1-16 "Conductor call" tab

lec	t call conductor		>
ID		Name	
	Unselected		
	SMIPLE 2		
	SAMPLES		
	SAMPLE4		
5	SAMPLES		
	SAMPLES		
	SAMPLE7		
8	SAMPLE8		

Figure 4.1-17 "Conductor select" popup

v. "Symphony call" tab.

• This tab is displayed if "Symphony call" is selected in the Node list's Function tab.

• The items found in the tab are as following.

ltem	Description	Input required	Input type	Restriction
Default skip	Target operation will be skipped if checked.	-	Manual	-
	This is a parameter that can be changed in Conductor execution screen.		input	
Symphony	 Click the Select button to select Symphony class from the displayed list. The name of the Symphony class will be displayed. 	0	Select	-
Operation	 Click the Select button to select Operation from the displayed list. The name of the Operation class will be displayed. 	-	Select	-
Note	Enter a comment or a description regarding the Node.		Manual input	

Symphony call
Default skip : 📃
Symphony select
Symphony :
Symphony select Clear
Operation select
Operation :
Operation select Clear
Note

4.1-18 "Symphony call" tab

Selec	t call symphony				X
Ð			Kine		
	SAUPLES				
	SAMPLE2				
	SWPLED				
	SAMPLE4				
				Decision	Delete

4.1-19 "Symphony select" Popup

vi. Parallel branch tab

• This tab is displayed if "Parallel branch" is selected in the Node list's Function tab.

•The items found in the tab are as following.

ltem	Description	Input required	Input type	Restriction				
case	Set number of branches. 2 branches is set on default, click the following to add or delete branch. •Add •Delete	-	Select					
Note	Enter a comment or a description regarding the Node.		Manual input					

Table 4.1-11	"Parallel branch" tab



Figure 4.1-20 "Parallel branch" tab

vii. Conditional branch tab

This tab is displayed if "Conditional branch" is selected in the Node list's Function tab.
The items found in the tab are as following.

Item		Description	Input required	Input type	Restriction
case (1-6)	Set condition Movement an User can cha The following Case1 Other	al branch according to the execution result of and Conductor Call. ange the condition by drag and drop g is set by default Normal end Abnormal end, Emergency stop, Preparation error, Unexpected error, Skip complete, Warning end	-	Select	*
Note	Enter a comr	nent or a description regarding the Node.		Manual input	

Table 4.1-12 Conductor class edit item list (Conditional branch)



Figure 4.1-21 "Conditional branch" tab

viii. Parallel merge tab

• This tab is displayed if "Parallel merge" is selected in the Node list's Function tab.

•The items found in the tab are as following.

Table 4.1-13"Merge" tab

	U			
Item	Description	Input required	Input type	Restriction
case	Select the number of parallel operation. 2 branches is set on default, click the following to add or delete branch. •Add •Delete	-	Select	
Note	Enter a comment or a description regarding the Node.		Manual input	

Merge		
Case :	Add Delete	
		-

Figure 4.1-22 "Merge" tab

ix. "End "tab

• This tab is displayed if "End" is selected in the Node list's Function tab.

Item listed in tab are following

Item	Description	Input required	Input type	Restriction
End status	 When End is processed, selected status is reflected on Conductor. Normal end (Default value) Warning end Error end Priority of status when multiple End node is executed Priority: Normal < Warning < Error	-	Select	
Note	Enter a comment or a description regarding the Node.	-	Manual input	-



Figure 4.1-2 "End" tab

x. "Status file branch" tab

• This tab is displayed if "End" is selected in the Node list's Function tab. • Item listed in tab are following

Item	Description	Input required	Input type	Restriction
lf	Set branch requirement for Movement status file.	-	Manual	*
1	Press "Add"/"Delete" button to add or delete branch.		input	
elseif	Default branch is "if" and "else"			
Note	Enter a comment or a description regarding the Node.	-	Manual	-
			input	

Table 4	1-4	"Status file	branch"	tab
		otatus me	branch	เฉม

Status fil	e branch
Case :	Add Delete
if :	
else if :	
Note	

Figure 4.1- 3 "Status file branch" tab

※Reference status file

- Refer to "MOVEMENT_STATUS_FILE" under operation result directory in each Movement for status file
- "else" process is operated when status file does not exist.
- When status file has multiple line (including line feed), line after feed is excluded from evaluation subject.

Ex) Status file including line feed

1		
23		
4		

Evaluate "1" as status file content.

Table 4.1-5 Status file ITA variable

ITA variable	Variable content	Restriction
movement_status_filepath	Under operation result	*
	directory "MOVEMENT_STATUS_FILE" path	
		— · · ·

* compatible with "Ansible-Legacy", "Ansible-Pioneer" and "Ansible-LegacyRole"

xi. "Node" tab

- This will be displayed if there are multiple nodes selected in the Movement/Function tab in the Node list.
- You can either drag and drop nodes into the selection area, or click multiple nodes while holding the Shift key to select multiple Nodes.
- The items found in the tab are listed below.

Table 4.1- 6 "Node" tab

Item	Description	Input require d	Input format	Restrictio ns
←	Aligns the selected nodes to the left	-		-

▶	Aligns the selected nodes to the left and right center	-	Select	-
\rightarrow	Aligns the selected nodes to the right	-	Select	-
I ↑	Aligns the selected nodes to the top	-	Select	-
*	Aligns the selected nodes to the top and bottom center	-	Select	-
<u>↓</u>	Aligns the selected nodes to the bottom	-	Select	-
	Aligns the selected nodes vertically with equally spacing in-between them.	-	Select	-
	Aligns the selected nodes horizontally with equally spacing in-between them.	-	Select	-



Figure 4.1- 4 "Node" tab

• Operations that can be executed in Class edit screen is as follows.

ltem	Description	Register (EDIT)	Update (VIEW)	Update (EDIT)	Remarks
New	Return to the default status.	0	-	-	
Save	Save the current edit screen as file.	0	-	-	
Read	Read and restore status from saved file.	0	-	-	

FIGURE 4.1-12 LIST OF OPERATIONS THAT CAIL BE DEMONSTREE IN CONTRACTOR CLASS FULL SCIEN

Cancel	Cancel the previous operation.	0	-	0
Redo	Redo the cancelled operation.	0	-	0
Delete node	Delete the selected node.	0	-	0
Registration	Perform registration	0	-	-
To Edit	Switch to EDIT mode to perform edit of Constructor	-	0	0
	class.			
Diversion	Diverse registered Conductor and register a new	-	0	0
	conductor.			
Update	Update the edited content.	-	-	0
Reload	Discard the modification and return to the status	-	-	0
	before edit.			
Cancel	Discard the modification and switch to VIEW mode		-	0

(2) View mode.

When moving from [Conductor class list] screen to Conductor class edit screen or after registration, the following screen will be displayed

Exast IT Automa	Conductor		User Change	r name [System Login ID [password	Administrator] administrator] Logout
≡ Menu	VIEN	The	e entire display	Display reset	full screen
Main menu		Conducto	r <u>- 1111</u>		
Conductor interface		ID : Name :	1 Sample1		
Conductor class list		Note			
Conductor class edit					
Conductor execution					
Conductor confirmation	Start Cegacy1 CE End				
Conductor list		Movemen	t Function		
Conductor Regularly		Filter :			
execution		+ 10		Movement nam	e
			Legacy1		
	log	1			
	To edit.				
Contact administrator					

Figure 4.1-21 "Conductor class edit" menu ("View" mode)

Item	Description
"To edit" button	Press this button to edit a registered Conductor
"Diversion" button	Press this button to copy a registered Conductor.

(3) The following screen will be displayed if "To edit" button is clicked.

	User name [System Administrator] Login ID [administrator] Change password Logout	
≡ Menu	EDIT Cancel Redo Delete node	The entire display Display reset full screen
Main menu		Conductor
Conductor interface information		ID: 1 Name: Sample1
Conductor class list		- Note
Conductor class edit		A
Conductor execution		
Conductor confirmation	Start End	
Conductor list		Movement Function
Conductor Regularly		Filter :
execution		+ ID Movement name
		1 Legacy1
	update Reload Cancel	
Contact administrator		

Figure 4.1-22 "Conductor class edit" menu ("Edit" mode) Table 4.1-8 "Edit" Mode

ltem	Description
The entire display	All nodes will be displayed
"Display reset" button	The display will reset according to the "Conductor_start"
"Full screen" button	Makes the browser window go full screen.
%Press the "end full screen mode" to exit full screen.	
"Update" button	Saves the edited contents
"Reload" button	Resets the edit screen and removes any changes.
"Cancel" button	Cancels the process and returns the screen before the "Edit" button was
	pressed.

4.1.5 Conductor execution

- (1) Indicate Conductor execution in [Conductor execution] screen.
- "Conductor [List]" displays the Conductors registered in "<u>4.1.3</u> Conductor class list".
 - "Operation [List]" displays the Operations registered in "Basic console.
 - i. Please refer to "User Instruction Manual" for details.
- Select radio button in "Conductor [List]" and "Operation [List]", then click the "Execution" button to move to "<u>4.1.6</u> Conductor confirmation" then start tracing of execution.
- Enter "Scheduled date/time" then click the "Execution" button will schedule execution. The scheduled execution can be checked in "<u>4.1.7</u> Conductor list".
 ※Date/Time before current time can't be entered.
- The setting value of Operation and skip for Movement and Conductor Call can be changed.
 - i. Setting value will not reflect to registered data. The setting value will only reflect to Conductor executions.

Exastro IT Automation	Conductor	User name [System Administrator] Login ID (administrator) Change password Logout
∃ Menu		
Main menu	Description	⊽Open
Conductor interface	Scheduling	∆Close
Conductor class list	Specify the scheduled date/time in (YYYY/MM/DD HH:MM) Immediately execute when blank.	
Conductor class edit		
Conductor execution	Conductor [filter]	⊽Open
Conductor confirmation	Conductor [List]	∆Close
Conductor list	Select Conductor class ID Conductor name Explanation Remarks Last update date/time Last updated	by
Conductor Regularly execution	I Sample1 2020/08/26 18:07:41 System Adminis Filter result count: 1	trator
		_
	Operation [Filter]	⊽Open
	Operation [List]	∆Close
ſ	Select No.÷ Operation ID÷ Operation name; Scheduled date for execution; Last executi Last update date/	time⊖ Last updated by⊖
	1 1 0peration1 2020/08/27 16:15 2020/08/27 16:13:47	System Administrator
	Filter result count: 1	
	Conductor execution	_
	Difference Image: conductor Image: conductor <	abon1
Contact administrator		

Figure 4.1-28 Submenu screen (Conductor execution)

The list of items in Conductor execution screen is as follows.

ltem	Description	Input Required	Input type	Restrictions
Scheduled	Specify the scheduled date and time of	-	Manual input	Date and time before
date/time	Conductor execution			the current time cannot
				be entered
Conductor [List]	The Conductor registered in "4.1.7	0	Radio	
	Conductor class list" will be displayed.		buttons	
Operation [List]	The operations registered in "Basic	0	Radio	
	console" will be displayed		buttons	
Skip	Check to skip the target operation	-	Checkbox	
	ℜRefer to the "About skip" in below			
Operation	※ Refer to the "About specifying	-	Manual input	
	Operation" in below			
Notice	Check notification setting	-	Button	
Execution	Execute register Conductor	0	Button	

Table 4.1-21	Registration screen items	(Conductor execution)
--------------	---------------------------	-----------------------

X About specifying Operation.

Click the "Select" button in "Operation Select" column will display a modal of Operation list.

Users can specify Operation that is different from the Operation specified by radio button. According to the specification, Conductor can be executed with the "Specific value" substituted with the value registered for other Operation ID in the "Substitution value list" menu of the Orchestrator which that Movement belongs to (e.g. "Substitution value list" in ITA Anisble-Legacy console).

The Operation ID specified in Conductor class edit screen is saved according to register/update.

Moreover, users can change the Operation for each step of Conductor before execution. However, the settings in Conductor execution screen only reflects to Conductor execution. The settings will not be saved.

Users can take use of this function to diverse the Movement to operate for another server.

※ About Skip

Users can change the status of Skip.

The skip setting in Conductor class edit screen is saved according to register/update.

Moreover, users can change the skip setting for each step of Conductor before execution. The settings will not be saved.

Users can take use of this function to temporary skip operation or execute operation while executing Conductor.

4.1.6 Conductor confirmation

(1) In [Conductor confirmation] screen, the status of Conductor execution is displayed.

By clicking the "Details" button in "<u>4.1.7</u> Conductor list", the status of the selected Conductor will be displayed. Users can execute "Cancel reservation", "Resume" or "Emergency stop" according to the situation.

The execution status of each Node can be displayed by selecting them.

To check the details of the execution status, uses can select the URL in "Operation status" of "Movement" and "Conductor Call".



Figure 4.1-29 Submenu screen (Conductor confirmation)

XIf you edit the Conductor that has been executed in "Conductor execution" with "Conductor class edit", it will be in a different state from the Conductor during execution, so even if you click the "Details" button, the status may not be displayed. If you want to edit the Conductor that has already been executed and then execute again, it is recommended to create another Conductor with a new diversion by using "Conductor class edit" and use it.

• If the selected Conductor execution is scheduled and is yet executed, a "Cancel reservation" button will be displayed.

• If the button is clicked, the status in "<u>4.1.7</u> Conductor list" will become "Unexecuted (Schedule)" and will not be executed.



Figure 4.1-30 Submenu screen (Conductor confirmation – Cancel reservation)

Exast	ľ ⊕ Conductor	User	r name [System / Login ID [i	Administrator] administrator]
IT Automa	tion	Change	password	Logout
≡ Menu	CHECKING	The entire display	Display reset	full screen
Main menu		Conductor		
Conductor interface		Conductor instance ID :	5	
information	Ansible Legacy OUT	Conductor ID :	1	
Conductor class list		Conductor name :	Sample1	
	Terror	Status :	Running	0.10
Conductor class edit		Find time :	2020/09/02 18.2	.0.19
Conductor execution		Execution user :	System Administi	rator
Conductor confirmation	Start End	Reservation date :		
Conductor list		Emergency stop :		
Conductor list		Note		
Conductor Regularly execution	Ansible Legacy 017			
	Legacy1	L		_
		Operation		
		Operation ID : 1		
	log	Operation name : Opera	tion1	
	1 NOTICE Pause => Node instance : 19			
Contact administrator				

Figure 4.1-31 Submenu screen (Conductor confirmation – Resume)

Exast IT Automa	Conductor	Use	er name [System / Login ID [password	Administrator] administrator] Logout
∃ Menu	CHECKING	The entire display	Display reset	full screen
Main menu		Conductor		
Conductor interfere		Conductor instance ID :		
information	TH Ansible Legacy OUT	Conductor ID :		
Conductor class list	Legacy1	Conductor name :	Sample1	
	and a second	Status :	Running	
Conductor class edit		Start time :	2020/09/02 18:2	28:19
Conductor execution		End ume :	System Administ	rator
Conductor confirmation	Start End	Reservation date :		
		Emergency stop :		
Conductor list				
Conductor Regularly	18 Ansible Legacy Out			
execution	Legacy1			
		Operation		
		Operation ID : 1		
	1 NOTICE Pause ⇒> Node instance : 19	Operation name : Oper	auon1	
	Emergency stop			
Contact administrator				

Figure 4.1-32 Submenu screen (Conductor confirmation – Emergency stop)

The list of items in Conductor confirmation screen is as follows.

ltem	Description	Input required	Input type	Restriction
Resume	Cancel pause and continue operation execution	-	button	-
Emergency stop	Stop Conductor execution	-	button	-
Cancel reservation	Cancel scheduled Conductor execution	-	button	Displayed only when execution is scheduled and is yet executed.

Table 4.1-22 Registration screen list (Conductor confirmation)

- (2) The "Conductor confirmation" menu displays the execution status of all executed Conductors.
 In the upper right corner, users can see the information about any selected Nodes. The tab name changes depending on the selected Node.
 - i. "Conductor name" tab.
 - This tab is displayed if no Nodes are selected.
 - The tab items are as follows.

•

ltem	Description
Conductor instance ID	Conductor instance ID
	A unique ID which is automatically assigned for
	each Conductor Instance.
Conductor name	Conductor name
	Displays the names of running Conductor
	classes.
Status	Status
	Displays the status for running Conductors.
	One of the following statuses will be displayed.
	Not executed
	 Not executed (Reserved)
	Executing
	 Executing(postponed)
	Normal end
	 Emergency stop
	 Abnormal end
	Unexpected error
	Reservation deleted
Pause Status	Pause status
	Displays the "Pause status" for any running
	Conductors that are paused.
	This item will display the "Pause status" for any
	conductors that are called using the "Conductor
	call" function.
	This item will be blank if the conductor is
	unpaused.
Start time	Start time
	Displays the date and time of when the Conductor
	was executed.
End time	End time
	Displays the data and time of when the Conductor
	ended.
Execution user	Execution user
	Displays the user who executed the Conductor.
Reservation date	Reservation date
	Displays the conductor's reservation date and
	time.
Emergency stop	Emergency stop flag
	Displays the status "Stopped" if the Conductor
	has been emergency stopped. Will display "Not
	stopped" if else.
Note	Remarks/Notes
	Displays any description and notes for the
	Conductor.

Table 4.1-23 "Conductor name" tab

Conductor名称	
Conductor instance ID :	56
Conductor name :	Conductor_001
Status :	正常終了
Pause status :	
Start time :	2022/02/28 16:37:41
End time :	2022/02/28 17:39:47
Execution user :	システム管理者
Reservation date :	
Emergency stop :	
Note	

Figure 4.1- 5 "Conductor name" tab

- ii. "Node" tab
 - This tab is displayed when a Node is selected.
 - The tab items are as follows.

•

Table 4.1- 24 "Node nam	e" tab
-------------------------	--------

Item	Description	
Node type	Displays the Type of the Node	
Node Instance ID	A unique ID which is automatically assigned for	
	each Node Instance.	
Node name	Displays the name of the Node class.	
Status	Displays the status of running Nodes.	
	One of the following statuses will be displayed.	
	Not executed	
	•Preparing	
	•Executing	
	 Executing(Postponed) 	
	Executed	
	Abnormal end	
	 Emergency stop 	
	•Paused	
	Normal end	
	Preparation error	
	Unexpected error	
	Skip complete	
	 Post-skip pause 	
	Skip complete	
	•Warning	
Status file	Displays the status file value if the selected node is	

		a Movement.		
Start time		Displays the date and time the node was executed.		
End time		Displays the data and time the node ended.		
Operation stat	us	Displays a link that leads the user to the operation		
		confirmation screen of the conductor, symphony		
		or movement.		
Specified	Operation ID	ID of the specified individual operation.		
individually	Operation Name	Name of the specified individual operation.		
operation				
Note		Displays any description and notes for the Node		

Node	<u> </u>
Node type :	start
Node instance ID :	376
Node name :	node-1
Status :	正常終了
Status file:	
Start time :	2022/03/01 09:13:15
End time :	2022/03/01 09:13:15
Operation status :	
 Specified individu 	ually operation
Operation ID :	
Operation name :	
Note	

Figure 4.1- 34 "Node" name

4.1.7 Conductor list

 Users can manage executed Conductor operations in "Conductor list" screen. By specifying the criteria and clicking the "Filter" button, the table of Conductor list will be displayed.

Users can click the "Details" button to move to "<u>4.1.6</u> Conductor confirmation" screen.

Conductor

Click "Download (.zip)" under "Input data (zip)" to download all Movements executed under

Conductor and its data files.

Click "Download (.zip)" under "Result data (zip)" to download all execution logs, error logs and such of all of the Movements executed under Conductor.

Notification log can be downloaded from notification log. Refer to "5.1.2 Notification log output example" for samples.

Exastro	Conductor User name (System Administrator Login ID (administrator
	Change password Logout
≡ Menu	
Main menu	Description
Conductor interface information	Display filter △Close
Conductor class list	Discard Conductor instance ID Conductor class name Operation Name Last update date/time Last updated by Exclude discarded records ~
Conductor class edit	▼ Search from pulldown ▼ Search from pulldown ▼ Search from pulldown ▼
Conductor execution	
Conductor confirmation	
Conductor list	Filter Clear filter
Conductor Regularly execution	☑ Auto-filter
	List △Close
	Conductor Instance ID & Petalled Conductor & Operation name) Status & Executing & Emergency stop & Input data (110) . Result data (110) scheduling Last update @ Last upda
Contact administrator	

If the Conductor has a hierarchical structure, the movement at the end will also be targeted.

Figure 4.1-33 Submenu screen (Conductor list)

4.1.8 Conductor regularly execution

(1) Users can manage regular execution of Conductor operation in [Conductor regularly execution] screen. Click the "Check the work list" in "List" will move to "<u>4.1.7</u> Conductor list" screen with the target Conductor executed by regular execution. Click the Conductor name list to move to "4.1.4 Conductor class edit"

	Conductor					User name [System Administrat Login ID [administrat
						inange password Logout
Menu	Description					⊽Open
onductor interface formation	Display filter					∆Close
onductor class list	Discard	Periodic work execution ID	Conductor class name	Operation name	Last update date/time	Last updated by
onductor class edit	Exclude discarded records •	▼ Search from pulldown	▼ Search from pulldown	▼ Search from pulldown		Search from pulldown
onductor execution						
onductor confirmation						
onductor list	•		1			Þ
nductor Regularly ecution	Filter	Clear filter				
	List/Update					∆Close
	Update Discard Periodic	work execution ID⇔ Check the	work list Conductor o	:lass name⊖ Operation	na Last update date/time⊖	Last updated by⊖
	Update Discard	1 Check the	Sample1	Operation1	2020/09/02 10:30:12 Reg	ularly management procedure
	Filter result count: 1					
Contact administrator						

Figure 4.1-34 Submenu screen (Conductor regularly execution)

(2) Click "Register" - "Start Registration" button to set regular execution. Schedule can only be set in the setting window by clicking "Schedule settings" button.

Set a schedule	×
Work period * Start date:	End date:
Schedule	
🔵 Time	* Interval: Time
Day	
Week	
 Month(Specify day) 	
 Month(Specify day of week) 	
End of month	
Work suspension period	
Note	
	* is a required field
	OK Close

Figure 4.1-35 Schedule settings screen (Regularly execution)

(3) The list of items in Conductor confirmation screen is as follows.

Table 4.1-23 Register screen item list (Regularly execution)

ltem		Description	Input required	Input type	Restrictions
Conductor clas	ss name	Conductor registered in " <u>4.1.3 Conductor</u> " are displayed	0	List	-
Operation nam	ne	Operation registered in "Basic Console –	0	List	-
Status		Refer to the following "Table 4.2-11 Status list	-	Automatic	-
Execution Use	r	User executed "Register" "renew" will be registered as operation user.	-	Automatic input	
		Regulatory work operation is registered to "4.1.7Conductor list" the "Operation user" is also passed on.			
		When operation user cannot operate selected "Conductor name" (Ex. User does not have access authority for the Movement)) status becomes "tie up error".			
Schedule setti	ng	A button that opens a modal window to set details of schedule.	-	-	-
Schedule	Next execution date	Based on the registered schedule, the execution date will be updated automatically.	-	Automatic input	-
	Start date	Enter the start date of regular work execution. "Next execution date" is always updated with the date after "Start date".	0	Manual input	Enter by Schedule setting only
	End date	Enter the end date of regular work execution. The status will become "completed" if "Next execution date" passed "End date".	-	Manual input	Enter by Schedule setting only
	Period	Select the period of regular execution. "Time", "Day", "Week", "Month (Specify day)", "Month (Specify day of week)", "End of month" can be selected.	0	Radio button	Enter by Schedule setting only
	Interval	Select the regular execution interval based on the selected period.	0	Manual input	Enter by Schedule setting only
	Week number	Used when period is "Month (Specify day of week)", select the week number to execute work.	※ 1	List selection	Enter by Schedule setting only
	Day of week	Used when period is "Week" or "Month (Specify day of week)", select the day of week to execute work.	% 2	List selection	Enter by Schedule setting only
	Day	Used when period is "Month (Specify day)", select the date to execute work.	Ж3	Manual input	Enter by Schedule setting only
	Time	Enter the time of regular execution.	※ 4	Manual input	Enter by Schedule setting only
Work suspension period	Start	Enter the start date/time of work suspension period. During the time between start time and end time, registered Symphony will not be executed.	※ 5	Manual input	Enter by Schedule setting only
	End	Enter the end date/time of work suspension period. During the time between start time and end time, registered Symphony will not be executed.	* 5	Manual input	Enter by Schedule setting only

Remarks	Free description field.	-	Manual	-
			input	

%1 Week number is required when period is "Month (Specify day of week)".

%2 Day of week is required when period is "Month (Specify day of week)".

3 Day is required when period is "Month (Specify day)".

%4 Time is required when period is "Day", "Week", "Month (Specify day)", "Month (Specify day of week)", "End of month".

%5 When setting work suspension period, both "Start" and "End" are required.

Status name	Description	
In preparation	The status immediately after registration.	
	The status will become "In operation" when backyard updates "Next execution date"	
	automatically.	
In operation	The status of normal execution.	
	The system registers operation to "4.1.7 Conductor list" 3 minutes before "Next execution date",	
	then updates "Next execution date" based on the schedule setting.	
Completed	The status when "Next execution date" passed "End date". Further Conductor execution	
	registration will not be performed.	
Mismatch error	The status when setting value of schedule is not correct.	
Linking error	The status when registering execution failed in "4.1.7 Conductor list".	
	Same as the status "In operation", system registered execution in "4.1.7 Conductor list", then	
	updates "Next execution date" based on the schedule setting. If registration of execution failed	
	again, the status will remain "Linking error".	
Unexpected error	The status when errors other than "Mismatch error" and "Linking error" happens.	
Conductor discard	The status when the registered Conductor is discarded. The status will be updated to "In	
	preparation" if the discarded Conductor is restored.	
Operation discard	The status when the registered Operation is discarded. The status will be updated to "In	
	preparation" if the discarded Operation is restored.	

Table 4.1-24 Status list (Regular execution)

(4) The status will become "In preparation" immediately after registered in "Regular execution" menu. Backyard will update "Next execution date" based on the registered schedule setting, then the status will become "In operation".

If the status is "In operation" or "Linking error", the system registers operation to "<u>4.1.7 Conductor</u> <u>list</u>" 3 minutes before "Next execution date", then updates "Next execution date" based on the schedule setting.

When pause is set in the Symphony which is registered in regularly execution, if users don't "resume" in "<u>4.1.6 Conductor confirmation</u>" after operation is registered, the status in "<u>4.1.7</u> <u>Conductor list</u>" will remain "Executing".

- (4) The "Conductor execution" menu allows users to execute Conductors.
 - The "Conductor list" submenu displays the Conductors registered in "4.1.3 <u>Conductor Class</u> <u>list"</u>
 - The "Operation list" submenu displays the Operations registered in the "Basic console" > "Operation list" menu.
 - ※ For more information, please see the "Exastro-ITA_User_Instruction_Manual_Basic_Console".
 - Select a Conductor and Operation from the "Conductor/Operation [List]" submenus using the radio buttons and press the "Execute" button in order to execute the Conductor.
 - Doing so will move the user to "4.1.6 Conductor confirmation" screen where they can trace the operation.
 - Users can also schedule when they want the Conductor to be executed by inputing their desired data in the "Schedule" submenu. The registered information can be seen in "4.1.7 Conductor list".
 - Note that it is not possible to input a date/time that has already been passed.
 - It is only possible to change the setting values for Movements, Conductor Calls, Symphony Call operations and Skips.

- XAny changes done in the Conductor Execute menu will not be reflected to the registered data in the Conductor Edit menu
- The access permission's common roles set to the selected Conductors and Operations are carried over to the executed Conductor.
- If there are no common roles, the operation cannot be executed.

221 221	9						
(>9-71- 24	ナジューリング						۵
70	00088273404. (日料フォーマット()	YYYY/MM/DD HH:II)70	入力して下さい。 プランクの場合(#節時実行となります		
75ス一副 予約	040						
作業表行 Co	nductor[フィルタ]						
· 星地部 Co	nductor[一覧]						L
18-5	R ConductorクラスID	Conductor&	No 2000 64	50 ANZIIINO AN	266		
		1 SAPPLE1 2 SAPPLE 2	Legacy1 call	2020/07/21 16:14:31 5ス 2020/07/21 16:14:11 5ス	テム管理者 テム管理者		
C		3 SAMPLES	pause	2020/07/21 16:15:51 >ス	テム就理測		
9	2	4 SAMPLEA	conditional	2020/07/21 16:17:27 5-2 2020/07/21 16:18:38 5-2	テム管理作		
	Ś	6 SAMPLES	call	2020/07/29 09:52:41 5-7	テム管理者		
i i c	Ś	7 SAMPLE7	call	2828/07/29 09:53:12 3-2	テム管理者		
	5	8 SAMPLES	69.24	2020/07/22 17:13:11 5-2	テム管理者		
7.	ペレーション[フィル!	9]					
71	ペレーション[一覧]						
33) (O	R No.0 オペレーショ	- リネオ (01/1) - リネオ 1	-ション名會 実施予定 ション1 2828/89/8	(日約冊) 借給実行日約冊 備約 1 15:54 2020/07/28 10:11	18 数档更新日均多 2020/07/28 18711123 187	最終更新者 ISY()足以行ジロジージヤ	
C) 2	2 オペレー	5352 2020/09/0	12 15:54 2020/07/22 13:55	2020/07/22 13:55:34 leg	acy作業実行プロシージャ	
C) 3	3 オペレー	SB>3 2020/09/0	9 15:55 2020/07/22 13:59	2020/07/22 13:59:28 leg	acy作業実行プロシージャ	
) 4	4 オペレー	5354 2021/03/2	3 11:02 2020/07/27 11:01	2020/07/28 18:39:14 57	テム管理者	
	DEFCUTE					全体表示 表示リセット :	フルスクリ
	xicun					全体表示 表示リセット : Conductor 10:1	フルスクリ
	XECUTE					全球表示 表示Utzy N : Conductor ID:1 Name:SAMPLE1	JILZØY
	XECUTE					全体表示 表示Utty h : Conductor ID:1 Name: SAMPLE1 Nate Legacy1	フルスクリ・
	XICUTE					全好表示 表示以try h Conductor ID:1 Name: SAMPLE1 Note Legacy1	JU 20 Y
	20FCUTF					全体表示 表示以tzy h : Conductor ID:1 Name: SAMPE1 Note Legacy1	711.2.2.11
	xdcart		8		800	RARAT BATURAN	ブルスクリ ・
	XRCaTE		ē			THAM BUUTUYN C Conductor ID: 1 Name: SAMPE1 Note Legacy1	JU.201J
	XICIT)	ē	vector use/ rej		Conductor TO: 1 Name: SAMPLE1 Name: SAMPLE1 Legacy1	0.209
	State]		NUM MER (ASRAM AMULTON Conductor ID : 1 Name: SAMPLE1 Note Legacy1 Operation Operation ID : 1 Operation ID : 1	21.209
	XEGIT S Concerne Exercis Exercise Exercise Exercise Exercise Exercise Exerc)	ē	vector use/ ra Urgens		Conductor ID : 1 Name : SAMPLE1 Note Legary1 Operation Operation ID : 1 Operation name : #^U->=2	711.2.97
		1	e (1)	Jana upo aj		Conductor ID : 1 Name: SAMPLE1 Note Legacy1 Operation Operation ID : 1 Operation name: #AU->=>	211.2.012
	XXCOT	}	•	ven		ASRAM BADYCOVE Conductor ID : 1 Nome : SAMPLE1 Note Legacy1 Operation Operation ID : 1 Operation name : オペレーション	271.2.271
		}		Vegas (geg free)		Conductor ID: 1 Name: SAMPLE1 Source Logary1 Operation Operation Operation ID: 1 Operation name: #<0->a>	ањ <i>29</i> 9
	State)				ASRAM BADUCUN IO : 1 None: SAMPLE1 Note Legacy1 Operation Operation ID : 1 Operation name : XML-2/32	и

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X The "Conductor execution" menu's common items can be found below

ltem	Description	Input requi red	Input method	Restrictions
Reservation	Specify the date/time of which the Conductor	-	Manual	Not possible to
time/date	will be executed.		input	enter a
				date/time
				earlier than the
				date/time
Conductor[List]	Displays the conductors registered in	0	Radio	
	"4.1.7Conductorclass list".		button	
Operation[List]	Displays the operations registered in "4.1.4	0	Radio	
	Input operation list".		button	
Skip	Allows users to skip desired operations	-	Check	
	See "Specifying Operations" below		box	
Operation	See "Specifying operations" below	-	Manual	
			input	
Notice	Allows users to confirm their notification	-	Button	
	settings			
Execute	Executes the registered Conductor	0	Button	

Table 4.1-21 "Conductor common" items list

Specifying Operations

Press the "Select" button in the "Operation" row to display a list of Operations.

Users can then specify an operation different to the already specified Operation's Operation ID. This allows the user to assign and execute "specific values" registered for Operation IDs in the "Assignment Value Management" menu of the orchestrator to which the Movement belongs (e.g., in the "Substitute Value list" menu in the ITA Ansible-Legacy console).

If the user has individually specified an Operation ID, the user can press the Conductor register/Update button in the Conductor class edit screen to save the configuration.

Users can also individually specify the operation in the Conductor execution screen before actually executing the Conductor. Users can change the Operation ID even if it has been edited and saved in the Conductor class edit menu.

Note that specifying the operation Id in the Conductor execution screen will only affect the current execution, meaning that the configuration (post changing Operation ID) will not be saved.

We recommend that you use this function when you want to use the same Movement, but for different servers.

Skip

Users can skip certain nodes by checking the "Skip" box.

If the user has changed the conductor to skip some of the nodes in the Conductor Class edit screen, the user can press the "Register" or "Update" button to save the configuration.

Users can also change which nodes to skip in the Conductor execution screen before actually executing the Conductor.

Note that specifying which nodes the users want to skip in the Conductor execution screen will only affect the current execution, meaning that the configuration will not be saved.

We recommend that you use this function if you want to temporarily jump over some of the operations (nodes)

- Access permissions for the executing operations.
 - Access permissions for Executing Operations

If the user executes a Conductor/Symphony that contains Movements displayed in the "Conductor execution" menu or all operations called using the "Conductor Call" and "Symphony Call" functions without having permission to them, a validation error will occur.

5 Appendix

5.1 Conductor notification destination definition

5.1.1 Conductor notification destination definition setting

■Teams setting example

Notification name	Notification sample
Notification destination	Enter Teams Webhook
(CURLOPT_URL)	
Header	["Content-Type: application/json"]
(CURLOPT_HTTPHEADER)	
Message (CURLOPT_POSTFIELDS)	<pre>{"text": "Notification name:NOTICE_NAME, Conductor name: CONDUCTOR_NAME, Conductor instance ID:CONDUCTOR_INSTANCE_ID, Operation ID:OPERATION_ID, Operation name:OPERATION_NAME, Status ID:STATUS_ID, Status:STATUS_NAME, Execution user: EXECUTION_USER, Book time:TIME_BOOK, Start time: TIME_START, End time:TIME_END, Emergency shutdown flag:ABORT_FLAG, Operation URL:JUMP_URL, "}</pre>
PROXY / URL	http://proxy.co.jp
(CURLOPT_PROXY)	
PROXY / PORT	8080
(CURLOPT_PROXYPORT)	
Work confirmation URL(FQDN)	http://exastro-it-automation.local
Other	
Start date	
End date	

Teams notification display example

通知名:通知サンプル2,	
onductor名称: NULL,	
ConductorインスタンスID:43,	
†ペレーションID: 1,	
tペレーション名:OP_NULL,	
ステータスID: 5,	
ステータス:正常終了,	
実行ユーザー: システム管理者,	
予約日時:,	
冬了日時: 2021/11/08 13:35:42,	
緊急停止フラグ: 未発令,	
乍業URL: http://exastro-it-automation.local/default/menu/01_browse.php?no=2100180005&conductor_ins	tance_id=43,

■Slack setting exmaple

Notification name	Notification sample
Notification	Enter Webhook URL for Slack
destination(CURLOPT_URL)	
Hearder	["Content-Type: application/json"]
(CURLOPT_HTTPHEADER)	
Message (CURLOPT_POSTFIELDS)	<pre>{ "username": "ITAConductor operation notification", "text": "notification name :NOTICE_NAME, ¥n Conductor name CONDUCTOR_NAME, ¥n Conductor instance ID:CONDUCTOR_INSTANCE_ID, ¥n Operation ID:OPERATION_ID, ¥n Operation name: _OPERATION_NAME, ¥n Status ID:STATUS_ID, ¥n Status:STATUS_NAME, ¥n Execution user:EXECUTION_USER, ¥n Book time:TIME_BOOK, ¥n Start time:TIME_START, ¥n End time: TIME_END, ¥n Emergency shutdown flag:ABORT_FLAG, ¥n Operation URL:JUMP_URL " }</pre>
PROXY / URL	http://proxy.co.jp
(CURLOPT_PROXY)	
PROXY / PORT	8080
(CURLOPT_PROXYPORT)	
Work confirmation URL(FQDN)	http://exastro-it-automation.local
Other	
Start date	
End date	

■Slack notification display example

17:09 通知名:通知サンブル3, Conductor名称、NULL, ConductorインスタンスID:50, オペレーションID:1, オペレーション名:OP_NULL, ステータスID:5, ステータスID:5, ステータスID:5, アキタス:正常終了, 実行ユーザー:システム管理者, 予約日時:, 開始日時:2021/11/09 16:56-53, 終了日時:2021/11/09 16:56-53, 終了日時:2021/11/09 16:57:08, 緊急停止フラグ:未発令, 作業URL: http://exastro-it-automation.local/default/menu/01_browse.php?no=2100180005&conductor_instance_id=50		
#slackテストにメッセージを送信する ダ B I & ↔ & 浸 I目 I目 型	Aa @ @	0 > -

<u></u>	•••••••••••••••••••••••••••••••••••••••
Notification name	Notification sample
(CURLOPT_URL)	https://sample.webhook.xxx.com/yyyyyyy
Header	["Content-Type: application/json"]
(CURLOPT_HTTPHEADER)	
Message	{"text": "Notification contents"}
(CURLOPT_POSTFIELDS)	
PROXY / URL	http://proxy.co.jp
(CURLOPT_PROXY)	
PROXY / PORT	8080
(CURLOPT_PROXYPORT)	
Work confirmation URL(FQDN)	http://exastro-it-automation.local
Other	{"CURLOPT_TIMEOUT":"10"}
Start date	2020/01/01 00:00:00
End date	2020/01/01 00:00:00
Remarks	Free description field

■Setting sample (Proxy setting, Notification setting, other)

5.1.2 Notification log output example

```
Notification log configuration
 YYYY-MM-dd HH:ii:ss Notification execution results(<ID:Notification name>,<ID:Status name>)
 Array
 (
     [RETURN MSG] =>
                                               : Notification execution return value
     [OPTION] => Array
                                               : Notification execution option \succ
          (
              [CURLOPT_XXXXXXX] =>
          )
     [RESSULT] => Array
                                  : Notification execution results
          (
                                                            : Notification URL
              [url] =>
                                                            : HTTP Status code
              [http code] =>
                . . . . . . . . . . . . . . . .
          )
```

Ex) Notification log (Normal)

```
2021-11-05 15:10:22 Notification execution results(2:Notification sample,5:Normal end)
Array
(
                   [RETURN MSG] => 1
                   [OPTION] => Array
                                      (
                                                          [CURLOPT CUSTOMREQUEST] => POST
                                                          [CURLOPT HEADER] =>
                                                          [CURLOPT SSL VERIFYPEER] =>
                                                          [CURLOPT SSL VERIFYHOST] => 0
                                                          [CURLOPT TIMEOUT] => 5
                                                          [CURLOPT_CONNECTTIMEOUT] => 2
                                                          [CURLOPT RETURNTRANSFER] => 1
                                                          [CURLOPT HTTPPROXYTUNNEL] => 1
                                                          [CURLOPT_URL] => https://sample.webhook.xxx.com/yyyyyyy
                                                          [CURLOPT_HTTPHEADER] => Array
                                                                             (
                                                                                                 [0] => Content-Type: application/json
                                                                             )
                                                          [CURLOPT POSTFIELDS] => {"text": "Notification name: Notification sample2, <br>
 Conductor name: NULL, <br >> Conductor instance ID:3, <br >> Operation ID: 1, <br >> Operation
name:OP NULL, <br>Status ID: 5, <br>Status: Normal end, <br>Execution user: System
administrator, <br>keservation date:, <br>Start date/time: 2021/11/05 15:10:08, <br>keservation date:, <br/>keservation date:,
date/time: 2021/11/05 15:10:18, <br>end the state of the 
http://exastro-it-
automation.local/default/menu/01 browse.php?no=2100180005&conductor instance id=3, <br>
```



Ex) Notification log (Error)

2021-11-05 15:10:20 Notification execution results(1:Notification sample. 5:Normal end) Array

```
[RETURN MSG] =>
         [OPTION] => Array
                   (
                             [CURLOPT CUSTOMREQUEST] => POST
                             [CURLOPT HEADER] =>
                             [CURLOPT_SSL_VERIFYPEER] =>
                             [CURLOPT SSL VERIFYHOST] => 0
                             [CURLOPT TIMEOUT] => 5
                             [CURLOPT CONNECTTIMEOUT] => 2
                             [CURLOPT RETURNTRANSFER] => 1
                             [CURLOPT HTTPPROXYTUNNEL] => 1
                             [CURLOPT_URL] => https://sample.webhook.xxx.com/yyyyyyy
                             [CURLOPT_HTTPHEADER] => Array
                                      (
                                                [0] => Content-Type: application/json
                                      )
                             [CURLOPT POSTFIELDS] => {"text": "Notification name: Notification sample, <br/> <br/>
Conductor name: NULL, <br>
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name :OP NULL, <br>Status ID: 5, <br>Status : Normal end, <br>Execution user: System
administrator, <br>Reservation date/time: , <br>Start date/time: 2021/11/05 15:10:08, <br>End
date/time: 2021/11/05 15:10:18, <br>Emergency stop flag: Not set, <br>Operation URL:
http://exastro-it-
automation.local/default/menu/01 browse.php?no=2100180005&conductor instance id=3, <br>
                             [CURLOPT_PROXY] =>
                            [CURLOPT_PROXYPORT] =>
                   )
         [RESSULT] => Array
                   (
                             [url] => https://sample.webhook.xxx.com/yyyyyyy
                             [content type] =>
                             [http code] => 0
                             [header_size] => 0
                             [request_size] => 0
                             [filetime] => -1
                             [ssl verify result] => 0
                             [redirect_count] => 0
                             [total time] => 2.011686
                             [namelookup_time] => 0.532318
                             [connect time] => 0
                             [pretransfer time] => 0
                             [size upload] => 0
                             [size download] => 0
                             [speed download] => 0
                             [speed upload] => 0
                             [download content length] => -1
                             [upload_content_length] => -1
```