



ITA_User Instruction Manual

Conductor

— Version 1.10 —

Disclaimer

All the contents of this document are protected by copyright owned by NEC Corporation.

Unauthorized reproduction or copying of all or part of the contents of this document is prohibited.

The contents of this document are subject to change without prior notice in the future.

NEC Corporation is not responsible for any technical or editorial errors or omissions in this document.

NEC Corporation do not guarantee accuracy, usability, certainty of the content in this document.

Trademark

- Linux is registered trademark or trademark of Linus Torvalds, registered in the U.S. and other countries.
- Red Hat is registered trademark or trademark of Red Hat, Inc. registered in the U.S. and other countries.
- Apache, Apache Tomcat, and Tomcat are registered trademarks or trademarks of the Apache Software Foundation.
- Ansible is registered trademark or trademark of Red Hat, Inc.
- AnsibleTower is registered trademark or trademark of Red Hat, Inc.
- Terraform is registered trademark or trademark of HashiCorp.

The names of other systems, company name and products mentioned in this document are registered trademarks or trademarks of their respective companies.

The ® mark and TM mark are not specified in this document.

※「Exastro IT Automation」 is written as 「ITA」 in this document.

Table of Contents

Introduction.....	4
1 Overview of ITA Conductor	5
2 ITA Conductor menu screen configuration.....	6
2.1 ITA Conductor menu list.....	6
3 ITA Conductor user instruction procedure	7
3.1 Jobflow	7
4 Function and operation method description.....	8
4.1 ITA Conductor.....	8
Conductor interface information.....	8
Conductor notification definition.....	9
Conductor class list	11
Conductor class edit.....	12
4.1.1 Conductor execution.....	26
4.1.2 Conductor confirmation	29
4.1.3 Conductor list	34
4.1.4 Conductor regularly execution	38
4.1.5	
4.1.6	
4.1.7 Appendix	46
4.1.8.1 Conductor notification destination definition	46
Conductor notification destination definition setting.....	46
5.1.1 Notification log output exmaple.....	49
5.1.2	

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

Table 2.1-1 ITA Conductor screen list

No	Menu Group	Menu / Screen	Description
1	Conductor	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 class edit	Edit Conductor class
4		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.

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 can use this function.

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

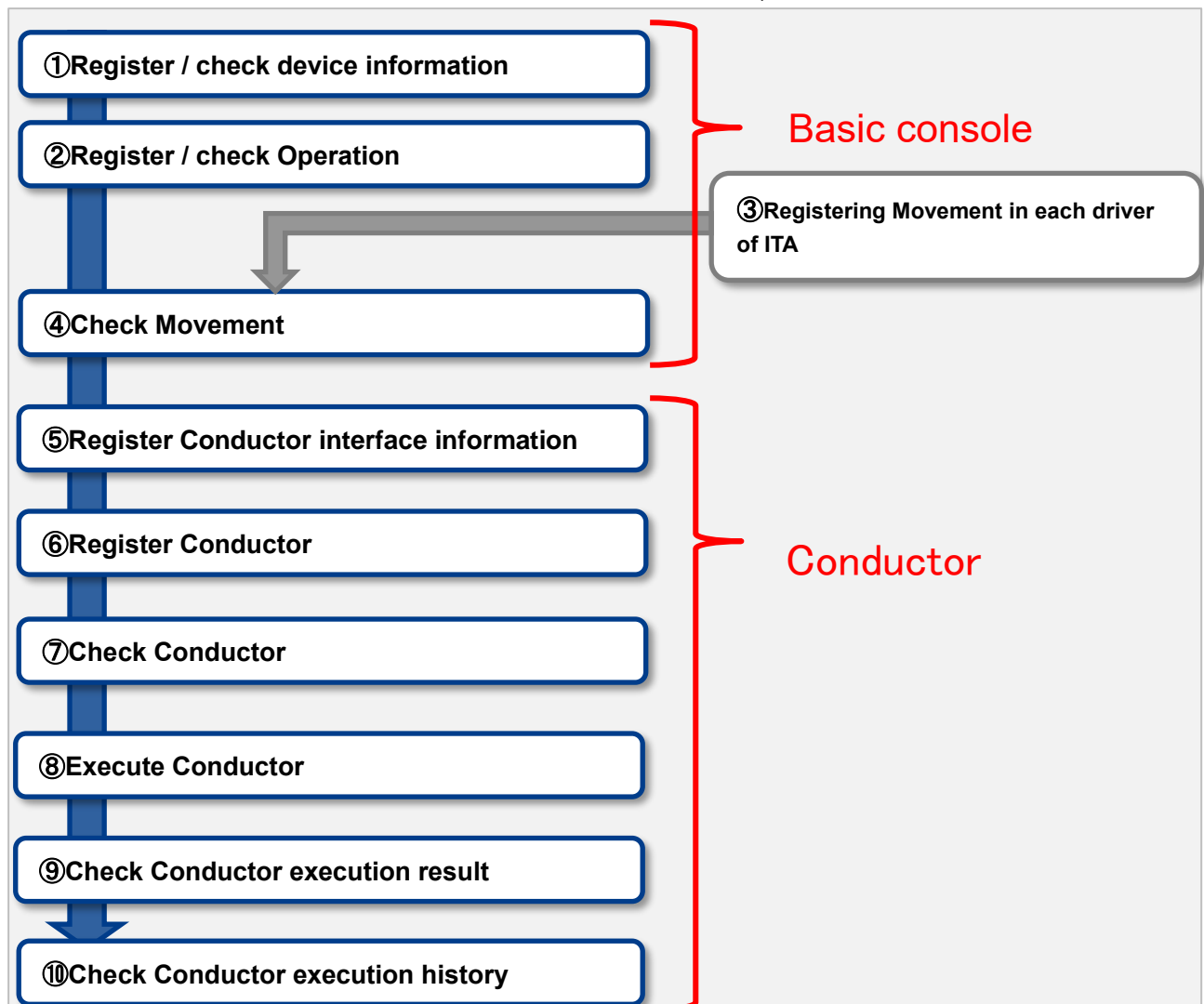


Figure 3.1-1 Jobflow

4 Function and operation method description

4.1 ITA Conductor

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.

4.1.1

The screenshot shows the 'Conductor' interface in the Exastro IT Automation system. The left sidebar has a 'Menu' section with 'Conductor interface information' highlighted. The main content area has a 'Description' section with a 'Display filter' button. Below this is a table with columns: Discard, No, Data relay storage path, Condition monitoring, Last update date/time, and Last updated by. The 'Data relay storage path' column contains the value '/root/ITA/data_relay_storage/conductor'. Below the table is a 'List' section with a table showing the same data. The 'Filter result count' is 1. There are buttons for 'Filter', 'Clear filter', and 'Output Excel'.

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 Required	Input type	Restrictions
Data relay storage path	When executing Conductor, enter the directory shared by each Movement with the directory path viewed 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.	○	Manual input	Maximum length 128 bytes
Status monitoring cycle (unit: millisecond)	Enter the interval for refreshing the display of "4.1.5 Conductor execution". Generally, it is recommended to set the number to 3000 millisecond.	○	Manual input	Minimum value 1000ms
Remarks	Free description field	-	Manual input	-

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.

4.1.2

Figure 4.1-2 (Conductor notification definition) Menu

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

Table 4.1- 1「List」 Sub menu

Item	Description	Input Required	Input type	Restrictions
Notification name	Enter notification name	○	Manual input	
Class(CURLOPT_URL)	Enter class URL	○	Manual input	
Header (CURLOPT_HTTPHEADER)	Enter HTTP header in JSON format	○	Manual input	
Message (CURLOPT_POSTFIELDS)	Enter message according to service specification.	○	Manual input	※
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	

			input	
Remarks	Free description field			

※ For available ITA variables, see the following table.
Refer to 「5.1.1Conductor」 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

Conductor class list

- (1) In the [Conductor class list] screen, users can view or discard registered Conductor classes. Click the “Details” button to move the edit screen “[4.1.4 Conductor class edit](#)”.

4.1.3

The screenshot shows the 'Conductor class list' screen in the Exastro IT Automation system. The sidebar menu on the left has 'Conductor class list' highlighted. The main content area features a 'Description' section with an 'Open' button, a 'Display filter' section with a 'Close' button, and a table of conductor classes. The table has columns for 'Discard', 'Conductor class ID', 'Conductor name', 'Explanation', 'Last update date/time', and 'Last updated by'. A 'Filter' button and an 'Auto-filter' checkbox are located below the table. At the bottom, there is a 'List' section with a 'Close' button and an 'Output Excel' button.

Discard	Conductor class ID	Conductor name	Explanation	Last update date/time	Last updated by
Exclude discarded records	~	~	~	~	~
	▼ Search from pulldown	▼ Search from pulldown	▼ Search from pulldown	▼	▼ Search from pulldown

Filter result count: 1

Discard	Conductor class ID	Detailed display	Conductor name	Explanation	Remarks	Last update date/time	Last updated by
Discard	1	Details	Sample1			2020/08/26 09:52:36	System Administrator

Figure 4.1-3 (Conductor class list) Menu

Conductor class edit

(1) "Conductor class edit"

- Users can register Conductor names and parts that makes up the work flow (also called Nodes)
- This screen has two different modes. Please see the table below for more information.

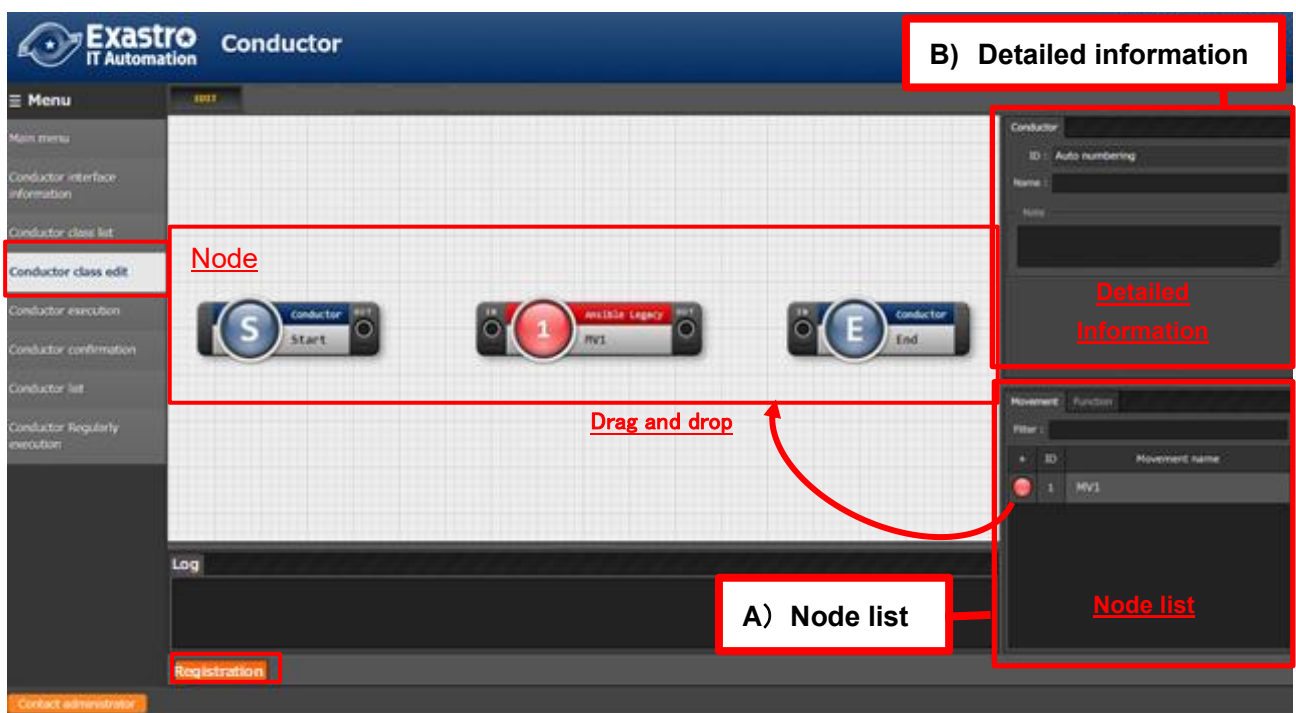
4.1.4

Table 4.1-4 Conductor class edit screen mode list

Mode	Description
EDIT	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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



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

- Node list





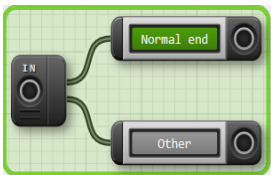
The Nodes available are displayed in the bottom right area of the screen


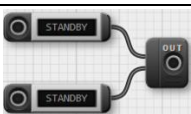


The Nodes can be created from the following tabs.

 - 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 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.
	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.
	Conditional branch	Branch process according to the result of “Movement” and “Conductor call” that the Node connects to. Status that can be specified is as follows. <ul style="list-style-type: none"> •Normal end •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.
	Parallel merge	Execute all process when all Nodes connected to this Node are finished.
	Status file branch	Branches off process based on results of work directory of Movement file.
	Movement	Execute Movement

The following section lists the different restrictions for using Nodes.

IN/OUT of all Nodes have to be connected.

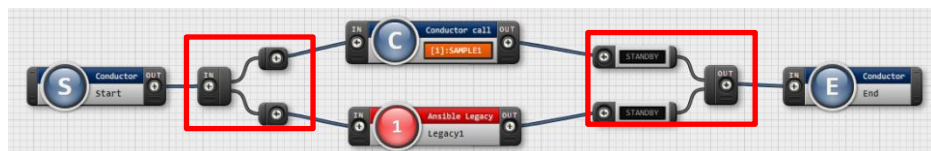


Figure 4.1-5 Node restriction (Correct example: Parallel branch)

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

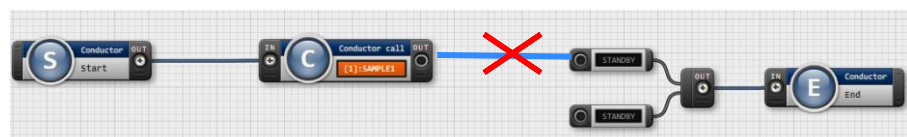


Figure 4.1-6 Node restriction (Bad example: Parallel branch)

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

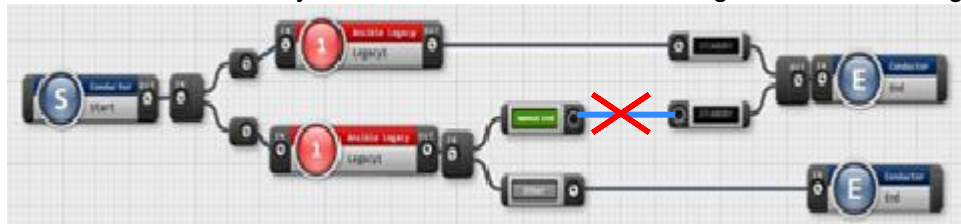


Figure 4.1-7 Node restriction (Bad example: Conditional branch)

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

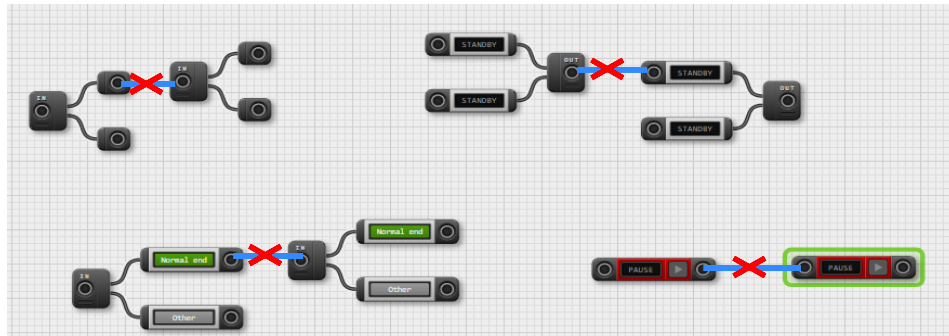


Figure 4.1-8 Node Restriction (Bad example: Successive use)

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

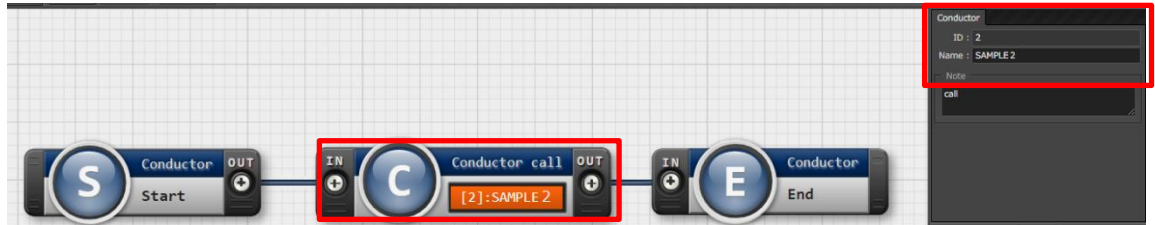


Figure 4.1-9 Node restriction (Bad example: Conductor call)

- 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.

Table 4.1-6 "Conductor name" Tab

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	○	Manual input	-
Notice	Select notification to perform Select multiple notification for each status.	-	Select	※
Role	Select the role that have access to this Conductor. If no role is selected, all role will be have access.		Select	
Note	Enter description and comment for Conductor class	-	Manual input	-

※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

Notification name	Executing	Executing (delay)	Normal end	Warning end	Emergency stop	Abend	Unexpected error
Notification sample	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Decision Cancel

Figure 4.1- 1 “Notice” popup

Select	ID	Name
<input checked="" type="checkbox"/>	1	System administration
<input type="checkbox"/>	2	Role1
<input type="checkbox"/>	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.

Table 4.1-7 “Movement” tab

Item	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. This is a parameter that can be changed in Conductor execute screen.	-	Manual input	
Operation	<ul style="list-style-type: none"> • 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	

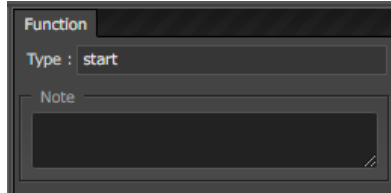
Figure 4.1-13 “Movement” tab

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

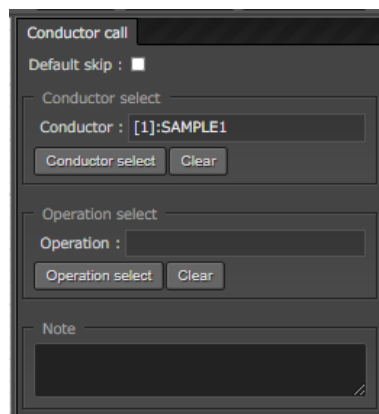
Item	Description	Input required	Input type	Restriction
Type	Type of selected Node is displayed	-	Auto input	-
Note	Enter a comment or a description regarding the Node.	-	Manual input	-

**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

Item	Description	Input required	Input type	Restriction
Default skip	Target operation will be skipped if checked. This is a parameter that can be changed in Conductor execution screen.	-	Manual	-
Conductor	• Click the Select button to select Conductor class from the displayed list. • The name of the Conductor class will be displayed.	○	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	

**Figure 4.1-16 “Conductor call” tab**

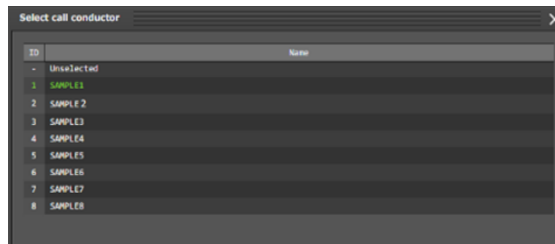


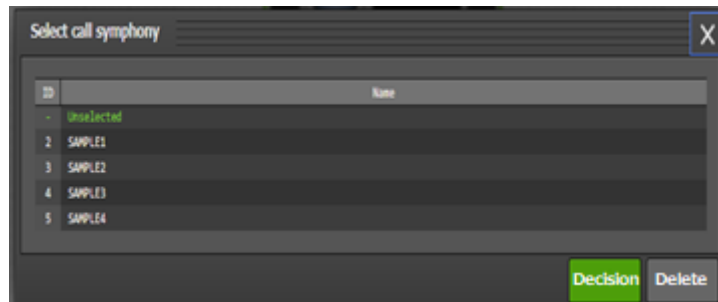
Figure 4.1-17 “Conductor select” popup

- 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.

Table 4.1-10 “Symphony call” tab

Item	Description	Input required	Input type	Restriction
Default skip	Target operation will be skipped if checked. This is a parameter that can be changed in Conductor execution screen.	-	Manual input	-
Symphony	• Click the Select button to select Symphony class from the displayed list. • The name of the Symphony class will be displayed.	○	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	

4.1-18 “Symphony call” tab



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.

Table 4.1-11 “Parallel branch” tab

Item	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. <ul style="list-style-type: none"> • Add • Delete 	-	Select	
Note	Enter a comment or a description regarding the Node.		Manual input	

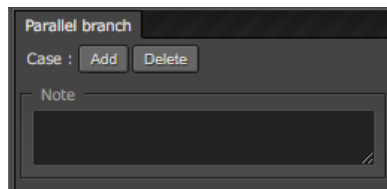


Figure 4.1-20 “Parallel branch” tab

- 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.

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

Item	Description	Input required	Input type	Restriction				
case (1-6)	<p>Set conditional branch according to the execution result of Movement and Conductor Call. User can change the condition by drag and drop The following is set by default</p> <table><tr><td>Case1</td><td>Normal end</td></tr><tr><td>Other</td><td>Abnormal end、Emergency stop, Preparation error, Unexpected error, Skip complete, Warning end</td></tr></table>	Case1	Normal end	Other	Abnormal end、Emergency stop, Preparation error, Unexpected error, Skip complete, Warning end	-	Select	※
Case1	Normal end							
Other	Abnormal end、Emergency stop, Preparation error, Unexpected error, Skip complete, Warning end							
Note	Enter a comment or a description regarding the Node.		Manual input					

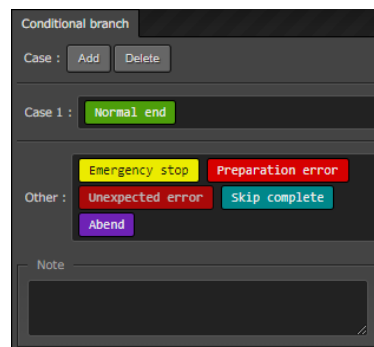


Figure 4.1-21 “Conditional branch” tab

- 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

Item	Description	Input required	Input type	Restriction
case	<p>Select the number of parallel operation. 2 branches is set on default, click the following to add or delete branch.</p> <ul style="list-style-type: none"> • Add • Delete 	-	Select	
Note	Enter a comment or a description regarding the Node.		Manual input	

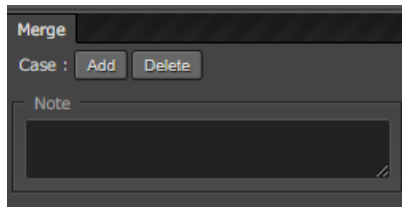


Figure 4.1-22 “Merge” tab

- ix. “End” tab
- This tab is displayed if “End” is selected in the Node list’s Function tab.
 - Item listed in tab are following

Table 4.1- 3 “End” tab

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	-

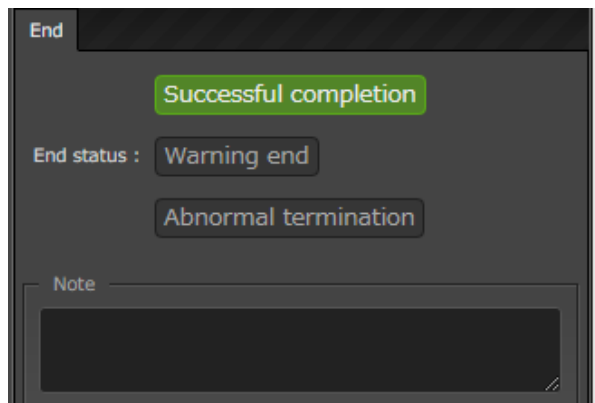


Figure 4.1- 2 “End” tab

- 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

Table 4.1- 4 “Status file branch” tab

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

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 required	Input format	Restrictions
	Aligns the selected nodes to the left	-		-

	Aligns the selected nodes to the left and right center	-	Select	-
	Aligns the selected nodes to the right	-	Select	-
	Aligns the selected nodes to the top	-	Select	-
	Aligns the selected nodes to the top and bottom center	-	Select	-
	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	-

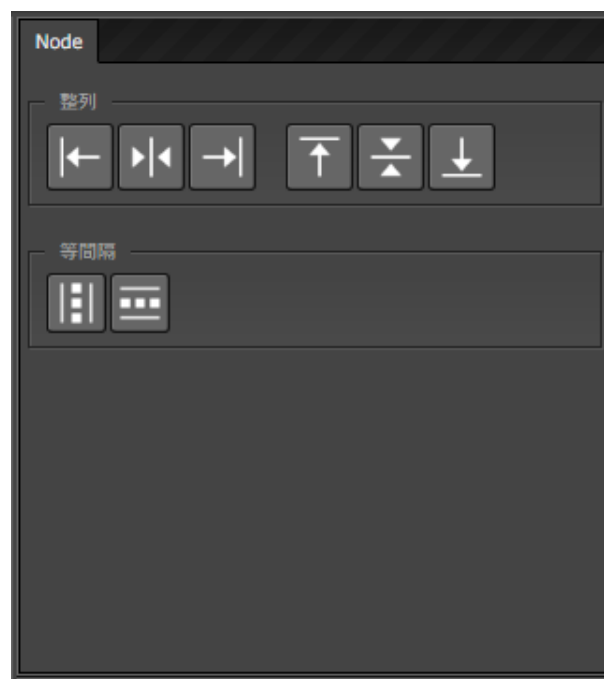


Figure 4.1- 4 “Node” tab

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

Figure 4.1-12 List of operations that can be performed in Conductor class edit screen

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

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

(2) View mode.

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

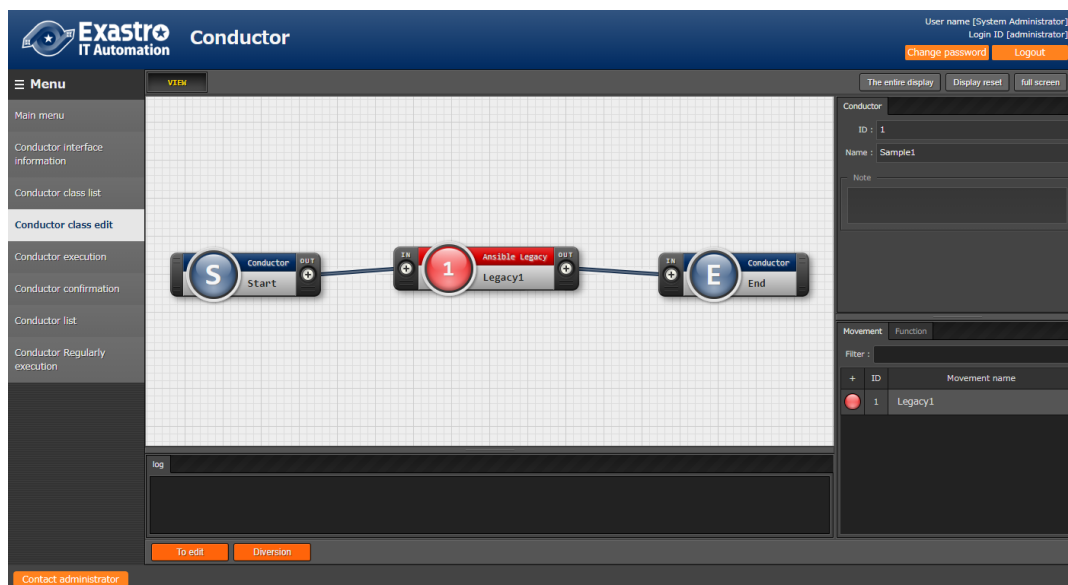


Figure 4.1-21 “Conductor class edit” menu (“View” mode)

Table 4.1- 7 “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.

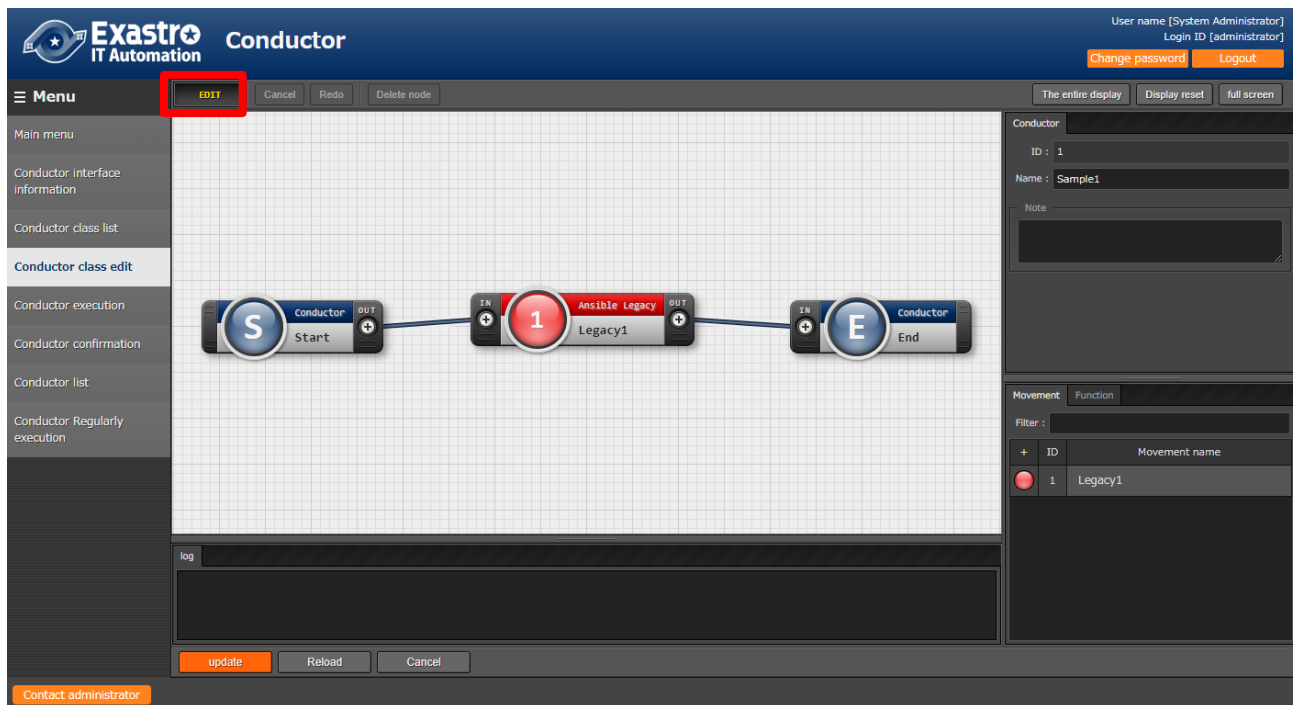


Figure 4.1-22 “Conductor class edit” menu (“Edit” mode)

Table 4.1- 8 “Edit” Mode

Item	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 “4.1.3 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 “4.1.6 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 “4.1.7 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.

Conductor

User name [System Administrator]

Login ID [administrator]

Change password

Logout

Menu

Main menu

Conductor interface information

Conductor class list

Conductor class edit

Conductor execution

Conductor confirmation

Conductor list

Conductor Regularly execution

Description

▽Open

Scheduling

△Close

Specify the scheduled date/time in (YYYY/MM/DD HH:MM) Immediately execute when blank.

Scheduled date/time:

Conductor [filter]

▽Open

Conductor [List]

△Close

Select	Conductor class ID	Conductor name	Explanation	Remarks	Last update date/time	Last updated by
<input checked="" type="radio"/>	1	Sample1			2020/08/26 18:07:41	System Administrator

Filter result count: 1

Operation [Filter]

▽Open

Operation [List]

△Close

Select	No.	Operation ID	Operation name	Scheduled date for execution	Last executi	Last update date/time	Last updated by
<input checked="" type="radio"/>	1	1	Operation1	2020/08/27 16:15		2020/08/27 16:13:47	System Administrator

Filter result count: 1

Conductor execution

EXECUTE

The entire display

Display reset

full screen

Conductor

ID : 1

Name : Sample1

Note

Operation

Operation ID : 1

Operation name : Operation1

log

1 ERROR Target host is not registered for Movement. (Movement ID:1)

Execution

Figure 4.1-28 Submenu screen (Conductor execution)

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

Table 4.1-21 Registration screen items (Conductor execution)

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

※ 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.

Conductor confirmation

- (1) In [Conductor confirmation] screen, the status of Conductor execution is displayed.
By clicking the “Details” button in “4.1.7 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.

- 4.1.6 To check the details of the execution status, users can select the URL in “Operation status” of “Movement” and “Conductor Call”.

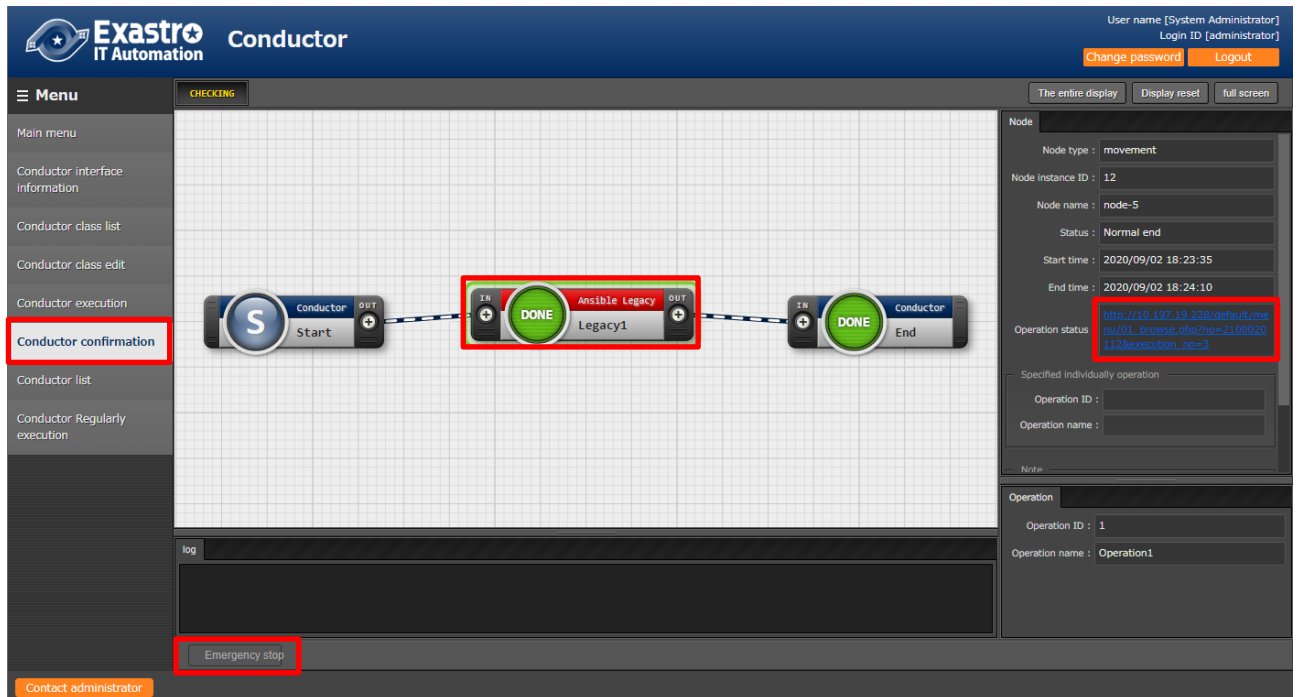


Figure 4.1-29 Submenu screen (Conductor confirmation)

※If 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 “4.1.7 Conductor list” will become “Unexecuted (Schedule)” and will not be executed.

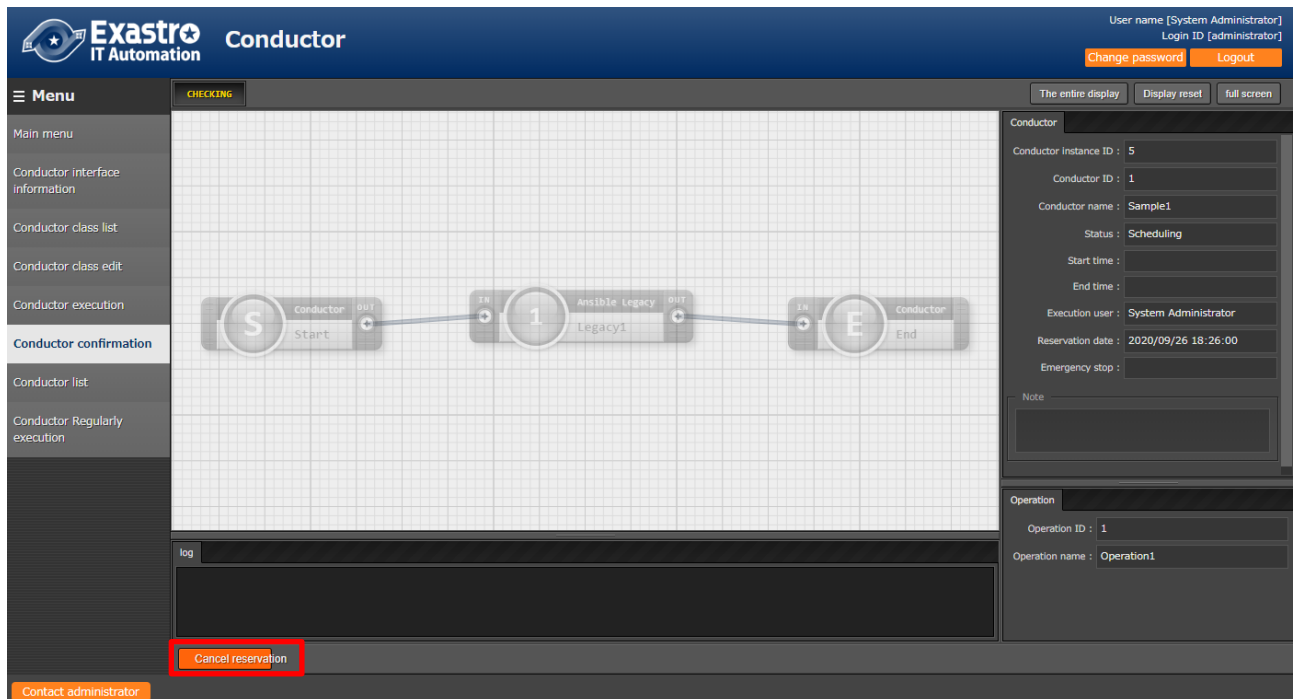


Figure 4.1-30 Submenu screen (Conductor confirmation – Cancel reservation)

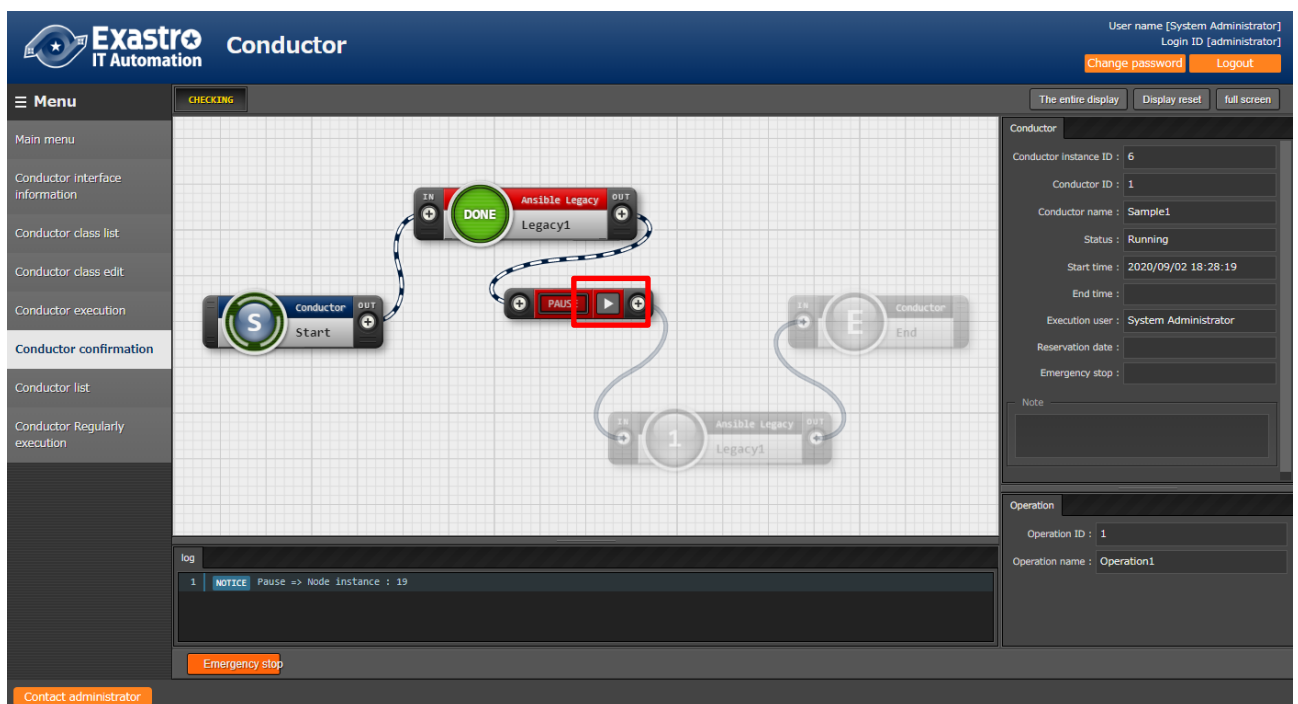


Figure 4.1-31 Submenu screen (Conductor confirmation – Resume)

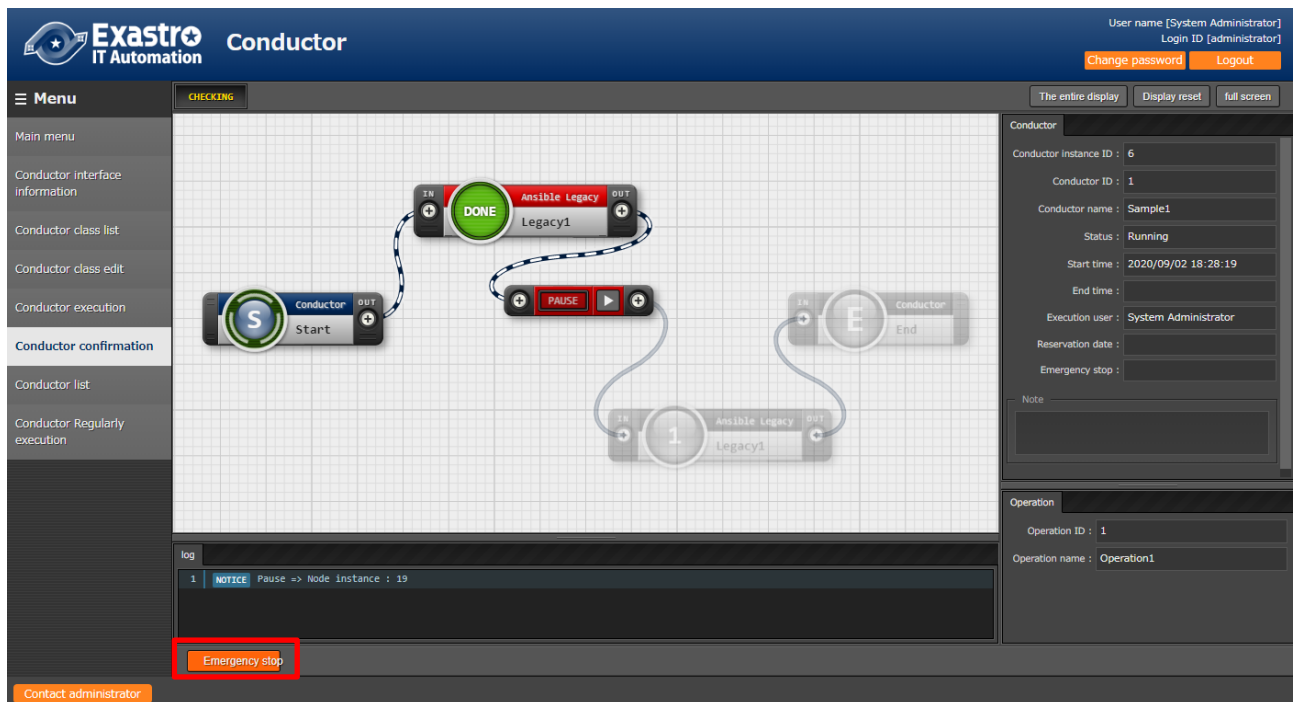


Figure 4.1-32 Submenu screen (Conductor confirmation – Emergency stop)

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

Table 4.1-22 Registration screen list (Conductor confirmation)

Item	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.

- (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.

• **Table 4.1- 23 "Conductor name" tab**

Item	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. <ul style="list-style-type: none"> •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.

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 name” 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	<p>Displays the status of running Nodes. One of the following statuses will be displayed.</p> <ul style="list-style-type: none"> •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 status		Displays a link that leads the user to the operation confirmation screen of the conductor, symphony or movement.
Specified individually operation	Operation ID	ID of the specified individual operation.
	Operation Name	Name of the specified individual operation.
Note		Displays any description and notes for the Node

Figure 4.1- 34 “Node” name

4.1.7

Conductor list

- (1) 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 “[4.1.6 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.

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

The screenshot shows the Exastro IT Automation Conductor interface. The sidebar menu on the left has 'Conductor list' highlighted. The main content area has a 'Description' section with a 'Display filter' button. Below this is a filter section with various input fields and buttons. The 'List' section contains a table of conductor instances. The table has columns for Conductor Instance ID, Conductor class name, Operation name, Status, Executing user, Emergency stop flag, Input data (zip), Result data (zip), Schedule date/time, Last update date/time, and Last updated by. A row is visible with 'CLS TEST' as the conductor class name and 'testoperation' as the operation name. The 'Input data (zip)' and 'Result data (zip)' columns have 'download (.zip)' links. The 'Details' link for the first row is also highlighted.

4.1.8

Figure 4.1-33 Submenu screen (Conductor list)

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 "4.1.7 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"

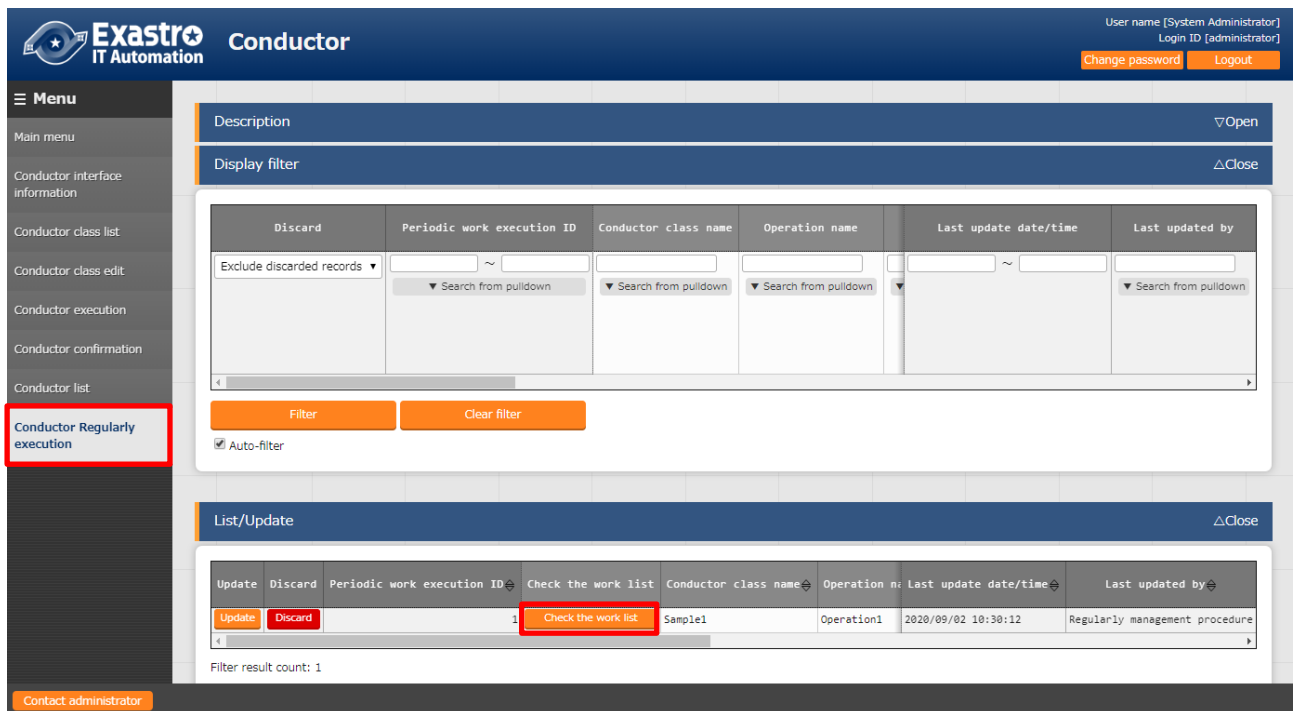


Figure 4.1-34 Submenu screen (Conductor regularly execution)

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

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)

Item		Description	Input required	Input type	Restrictions
Conductor class name		Conductor registered in "4.1.3 Conductor" are displayed.	○	List selection	-
Operation name		Operation registered in "Basic Console – Input operation list"	○	List selection	-
Status		Refer to the following "Table 4.2-11 Status list (Regularly execution)"	-	Automatic input	-
Execution User		User executed "Register" "renew" will be registered as operation user. Regulatory work operation is registered to "4.1.7 Conductor 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".	-	Automatic input	
Schedule setting		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".	○	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.	○	Radio button	Enter by Schedule setting only
	Interval	Select the regular execution interval based on the selected period.	○	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.	※3	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.

Table 4.1-24 Status list (Regular execution)

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.

- (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 "[4.1.7 Conductor list](#)" 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 "[4.1.6 Conductor confirmation](#)" after operation is registered, the status in "[4.1.7 Conductor list](#)" 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 Conductor Class list](#)"
 - 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 inputting 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.

- ・ ※Any 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.

The screenshot displays the Exastro IT Automation Conductor interface. The sidebar on the left contains a 'Menu' section with options like 'メインメニュー', 'Conductorインターフェース情報', 'Conductorクラス一覧', 'Conductorクラス編集', 'Conductor作業実行', 'Conductor作業確認', 'Conductor作業一覧', and 'Conductor定期作業実行'. The main content area is divided into several sections:

- 説明 (Description):** Contains a 'スケジュールリング' (Scheduling) section with a text box for scheduling and a '予約日時' (Reservation Time) field.
- Conductor[フィルタ] (Conductor Filter):** A table listing various conductors with columns for selection, conductor class ID, name, type, ID, last update time, and user.
- オペレーション[フィルタ] (Operation Filter):** A table listing various operations with columns for selection, No., operation ID, name, scheduled execution time, actual execution time, ID, last update time, and user.
- Conductor実行 (Conductor Execution):** A section for executing a conductor. It features a workflow diagram with nodes 'Start', 'Legacy1', and 'End'. The 'Legacy1' node is highlighted, and its details are shown on the right side of the interface.

The right side of the 'Conductor実行' section shows the details of the selected conductor and operation, including the 'Conductor' ID, Name, Note, and 'Operation' ID, Name, and Note.

・ Figure 4.1- 28 "Conductor Execution" menu

※

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

Table 4.1- 21 "Conductor common" items list

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

➤ 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

Conductor notification destination definition setting

■ Teams setting example

Notification name	Notification sample
Notification destination (CURLOPT_URL)	Enter Teams Webhook
Header (CURLOPT_HTTPHEADER)	["Content-Type: application/json"]
Message (CURLOPT_POSTFIELDS)	{ "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__, " }
PROXY / URL (CURLOPT_PROXY)	http://proxy.co.jp
PROXY / PORT (CURLOPT_PROXYPORT)	8080
Work confirmation URL(FQDN)	http://exastro-it-automation.local
Other	
Start date	
End date	

■ Teams notification display example



■Slack setting exmaple

Notification name	Notification sample
Notification destination(CURLOPT_URL)	Enter Webhook URL for Slack
Header (CURLOPT_HTTPHEADER)	["Content-Type: application/json"]
Message (CURLOPT_POSTFIELDS)	{ "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__ " }
PROXY / URL (CURLOPT_PROXY)	http://proxy.co.jp
PROXY / PORT (CURLOPT_PROXYPORT)	8080
Work confirmation URL(FQDN)	http://exastro-it-automation.local
Other	
Start date	
End date	

■Slack notification display example



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

Notification name	Notification sample
(CURLOPT_URL)	https://sample.webhook.xxx.com/yyyyyyyy
Header (CURLOPT_HTTPHEADER)	["Content-Type: application/json"]
Message (CURLOPT_POSTFIELDS)	{"text": "Notification contents"}
PROXY / URL (CURLOPT_PROXY)	http://proxy.co.jp
PROXY / PORT (CURLOPT_PROXYPORT)	8080
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

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
5.1.2 [OPTION] => Array                             : Notification execution option
        (
            [CURLOPT_XXXXXXX] =>
                .....
        )
    [RESSULT] => Array                               : Notification execution results
        (
            [url] =>                                  : Notification URL
            [http_code] =>                             : HTTP Status 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/yyyyyyyyy
            [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>Reservation date: , <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] => https://sample.proxy.xxx.com
        [CURLOPT_PROXYPORT] => 8080
    )

    [RESSULT] => Array
    (
        [url] => https://sample.webhook.xxx.com/yyyyyyyyy
        [content_type] => text/plain; charset=utf-8
        [http_code] => 200
        [header_size] => 834
        [request_size] => 1005
        [filetime] => -1
        [ssl_verify_result] => 0
        [redirect_count] => 0
        [total_time] => 1.519411
        [namelookup_time] => 0.083714
        [connect_time] => 0.107712
        [pretransfer_time] => 0.44203
        [size_upload] => 560
        [size_download] => 1
        [speed_download] => 0
        [speed_upload] => 368
        [download_content_length] => 1
        [upload_content_length] => 560
        [starttransfer_time] => 1.519364
        [redirect_time] => 0
        [redirect_url] =>
        [primary_ip] => XXX.XXX.XXX.XXX
        [certinfo] => Array
            (
            )
        [primary_port] => 8080
        [local_ip] => XXX.XXX.XXX.XXX
        [local_port] => 39874
    )
)

```

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/yyyyyyyyy
    [CURLOPT_HTTPHEADER] => Array
        (
            [0] => Content-Type: application/json
        )

    [CURLOPT_POSTFIELDS] => {"text": "Notification name:Notification sample, <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>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/yyyyyyyyy
    [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

```



```
[starttransfer_time] => 0
[redirect_time] => 0
[redirect_url] =>
[primary_ip] => XXX.XXX.XXX.XXX
[certinfo] => Array
    (
    )
[primary_port] => 443
[local_ip] =>
[local_port] => 0
)
```

```
)
```