

ITA_User Instruction Manual

Conductor

Version 1.9 —

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This document desc	ribes the functions	and operation	methods of the	ITA Conductor f	unction.

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 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	Candustan	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.		

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 <u>"Exastro-ITA_User_Instruction_Manual_Ansible-driver"</u> and <u>"Exastro-ITA_User_Instruction_Manual_Terraform-driver"</u>

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

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コメントの追加 [A1]: Add quotation marks

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.

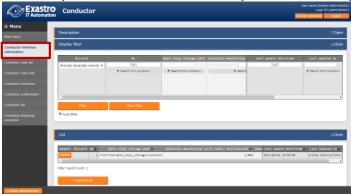


Figure 4.1-1 (Conductor interface information) Menu

(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.	Ö	Manual input	Maximum length 128 bytes
Status monitoring cycle (unit: millisecond)	Enter the interval for refreshing the display of "4.1.54.1.4 Conductor executConductor execution". Generally, it is recommended to set the number to 3000 millisecond.	0	Manual input	Minimum value 1000ms
Remarks	Free description field	-	Manual input	-

書式変更: フォント: (英) +見出しのフォント (Arial), 9 pt, 下線

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. 登録した Conductor 通知先定義は、「Conductor クラス編集」の「Notice」にて、Conductor 実行中に、通知を行うステータスに対して設定を行います。

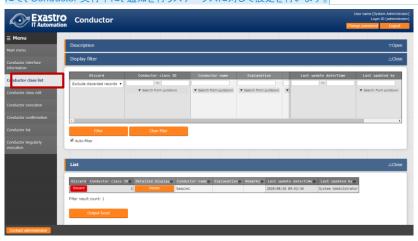


Figure 4.1-2 (Conductor notification definition) Menu

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

Table 4.1- 12 [List] Sub menu

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

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		input
End time	Enter to stop notification	Manual
	·	input
Remarks	Free description field	

* For available ITA variables, see the following table.

Refer to 「5.1.1<u>Conductor Conductor notification destination definition</u>Conductor_通知先設定例」 for Teams, Slack input.

コメントの追加 [A3]: Not updated/Translated

Table 4.1	22 Con	ductor a	dace lie	• ITA v	ariables
Table 4.1	- 24 CON	auctor (CIASS IIS	τιιαν	arianies

ITA variables	<mark>変数指定内容</mark> 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	*

コメントの追加 [A4]: Not translated

 $\mbox{\ensuremath{\mbox{\%''}}\xspace{\mbox{\sc Operation}}\xspace{\mbox{\sc Work}}\xspace confirmation URL (FQDN)" input is used as output for work confirmation URL as following.$

コメントの追加 [A5]: "作業" in ITA context usually refers to "Operation"

<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

(1) In the [Conductor class list] screen, users can view or discard registered Conductor classes.

Click the "Details" button to move the edit screen "4.1.44.1.3 Conductor class edit Conductor class edit".

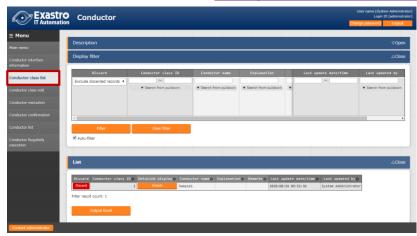


Figure 4.1-3 (Conductor class list) Menu

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

Table 4.1-4 Conductor class edit screen mode list

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

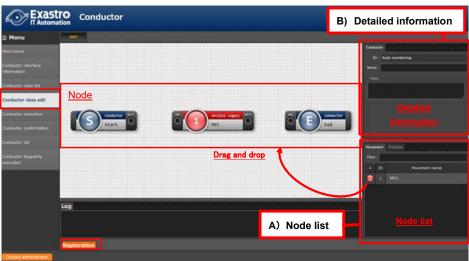


Figure 4.1-4 Submenu screen (Conductor class edit: EDIT)

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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
 - $\ \, \diamondsuit \quad \text{List of ID and name of registered Movement}.$
- ii. Function tab
 - ♦ Conductor end
 - ♦ Conductor pause
 - $\qquad \qquad \diamondsuit \quad \text{Conductor call} \\$
 - ♦ 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
Figure	Name	Description
S Conductor Start	Conductor start	Start of Conductor
O E Conductor	Conductor end	End of Conductor XIf there are multiple Conductor end, the operation will end until all Conductor end are
O PAUSE DO	Conductor pause	Cancel the paying to make an to payt atom.
C Conductor call SUF	Conductor call	Cancel the pause to move on to next step. 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.
tomal end O Other O	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. 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.
O STANEOR	Parallel merge	Execute all process when all Nodes connected to this Node are finished.
tuto (i)	Status file branch	Branches off process based on results of work directory of Movement file.
1 Legacy Der Communication Com	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.

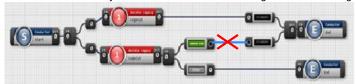


Figure 4.1-7 Node restriction (Bad example: Conditional branch)

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

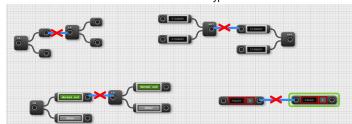


Figure 4.1-8 Node Restriction (Bad example: Successive use)

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

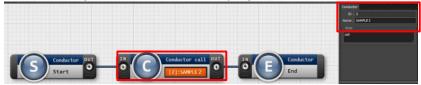


Figure 4.1-9 Node restriction (Bad example: Conductor call)

- •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.
- $\mbox{\ensuremath{\cdot}}\mbox{\ensuremath{\text{The}}}$ 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	0	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 "<u>エラー! 参照元が見つかりません。</u>4.1.2 Conductor notification definition"



Figure 4.1-10 "Conductor" name tab



Figure 4.1- 141 "Notice" popup



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.	-	Manual	
	This is a parameter that can be changed in Conductor execute screen.		input	
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 4.1-13 "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.

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•The items found in the tab are as following.

Table 4.1-8 "Function" tab

Item	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	-
		1	input	1



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.	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	



Figure 4.1-16 "Conductor call" tab

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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.	-	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	



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

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	

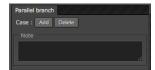


Figure 4.1-20 "Parallel branch" tab

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)	Movement ar User can cha	al branch according to the execution of Conductor Call. Inge the condition by drag and drop is set by default Normal end Abnormal end, Emergency stop, Preparation error, Unexpected error, Skip complete, Warning end	result of	-	Select	*
Note	Enter a comm	nent or a description regarding the N	ode.		Manual input	

Conditional branch

Case : And Delete

Case 1: Normal end

Energency stop Preparation error.

Other: Unexpected error Skip complete
Abend

Note

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.
- viii. Conditional branch details and input items

Table 4.1-13 "Merge" tab

	Table 4.1-10 Merge tab					
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			

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Figure 4.1-21 22 "Detail and input items (Parallel Mmerge" 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- 314 "End" tab

	Table III e III e III a			
<u> Įtem</u>	<u>Description</u>	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	Ξ	Select	
	Priority of status when multiple End node is executed Priority: Normal < Warning < Error			
<u>Note</u>	Enter a comment or a description regarding the Node.	Ξ	Manual input	_

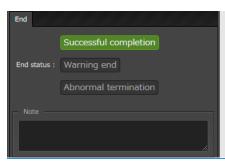


Figure 4.1- 223 "End" tab

- 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- 415 "Status file branch" tab

<u>ltem</u>	Description Input Input Restriction required type				
<u>If</u>	Set branch requirement for Movement status file. Press "Add"/"Delete" button to add or delete branch. Default branch is "if," and "else,"	Ξ	Manual input	<u> </u>	
Note	Enter a comment or a description regarding the Node.	=	Manual input	=	

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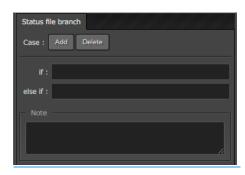


Figure 4.1- 324 "Status file branch" tab

※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 4.1-516 Status file ITA variable

	Table III GIG Gtatae me III taliable	
ITA variable	Variable content	<u>Restriction</u>
movement status filepath	Under operation result	<u>**</u>
	directory "MOVEMENT STATUS FILE" path	

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

ix.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- 64 "Node" tab

Item	Description	Input required	Input format	Restrictions
$oxed{oldsymbol{\perp}}$	Aligns the selected nodes to the left	_		-
	Aligns the selected nodes to the left and	-	Select	-

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表の書式変更

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section

	right center			
→	Aligns the selected nodes to the right	-	Select	-
$\overline{\uparrow}$	Aligns the selected nodes to the top	-	Select	ı
Y	Aligns the selected nodes to the top and bottom center	-	Select	-
$\boxed{lacktriangle}$	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- <u>4</u>1 "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.	0	-	-	
Save	Save the current edit screen as file.	0	-	-	
Read	ead Read and restore status from saved file.		-	-	
Cancel	Cancel the previous operation.	0	-	0	

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Redo	Redo the cancelled operation.	0	-	0	
Delete	Delete the selected node.	0	-	0	
node					
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

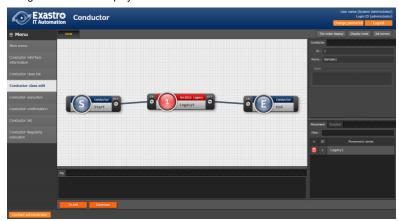


Figure 4.1-21 "Conductor class edit" menu ("View" mode)

Table 4.1- 72 "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.

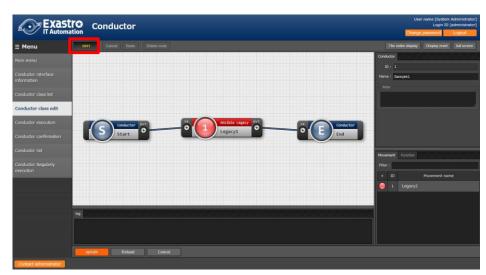


Figure 4.1-22 "Conductor class edit" menu ("Edit" mode) Table 4.1- $\underline{83}$ "Edit" Mode

Item	Description
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.
 - Setting value will not reflect to registered data. The setting value will only reflect to Conductor executions.

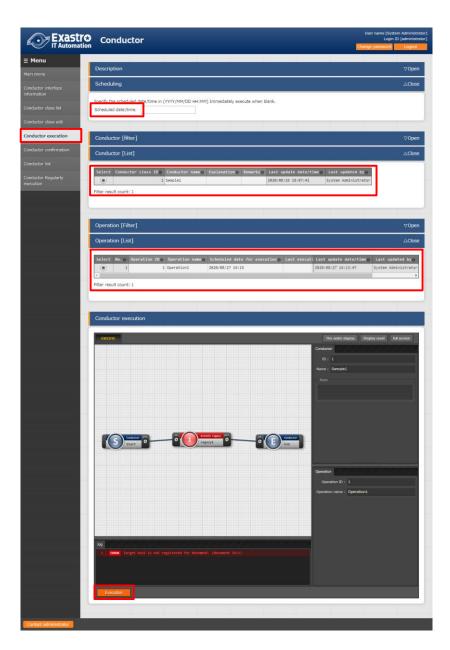


Figure 4.1-28 Submenu screen (Conductor execution)

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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	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	
	※Refer to the "About skip" in below			
Operation		-	Manual input	
Notice	Check notification setting	-	Button	
Execution	Execute register Conductor	0	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.

4.1.6 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.

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

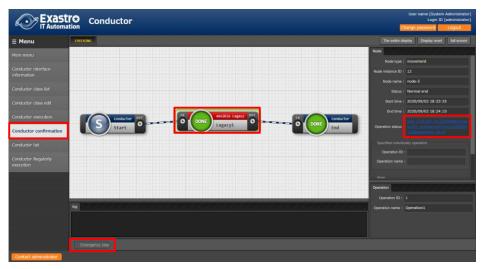


Figure 4.1-29 Submenu screen (Conductor confirmation)

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 "4.1.74.1.6 Conductor list" will become "Unexecuted (Schedule)" and will not be executed.

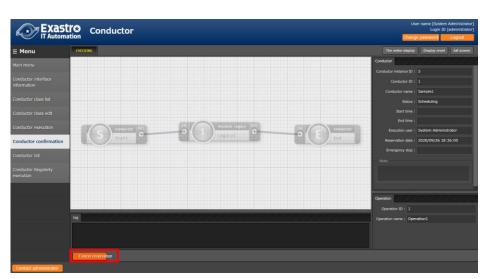


Figure 4.1-30 Submenu screen (Conductor confirmation – Cancel reservation)

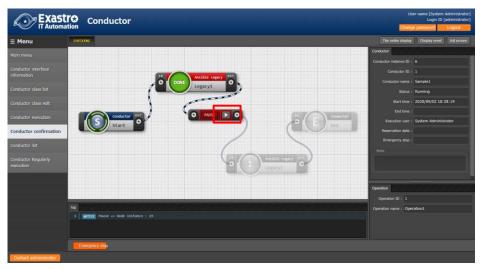


Figure 4.1-31 Submenu screen (Conductor confirmation – Resume)

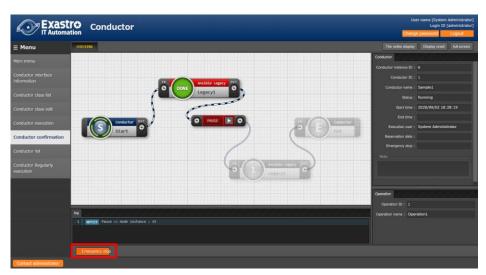


Figure 4.1-32 Submenu screen (Conductor confirmation – Emergency stop)

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

Table 4.1-22 Registration screen list (Conductor confirmation)

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

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.

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.

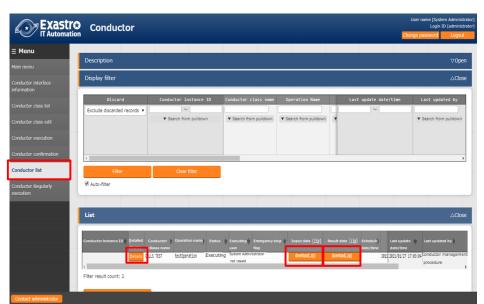


Figure 4.1-33 Submenu screen (Conductor list)

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 "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"

コメントの追加 [A9]: Remember to end quotation

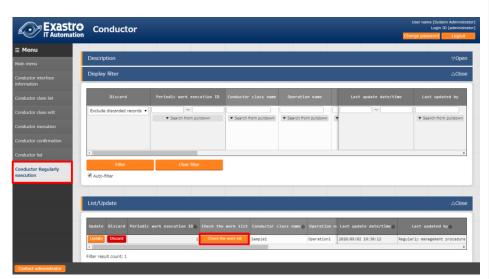


Figure 4.1-34 Submenu screen (Conductor regularly execution)

(2) Click "Register" - "Start Registration" button to set regular execution.

Schedule can only be set in the setting window by clicking "Schedule settings" button.

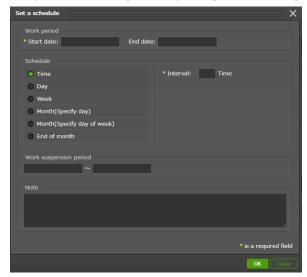


Figure 4.1-35 Schedule settings screen (Regularly execution)

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(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	Input type	Restrictions
			required		
Conductor cla	ss name	Conductor registered in "4.1.3 Conductor	0	List	-
		Conductor class list" are displayed.		selection	
Operation nan	ne	Operation registered in "Basic Console –	0	List	-
01.1		Input operation list"		selection	
Status		Refer to the following "Table 4.2-11 Status list	-	Automatic	-
Execution Use		(Regularly execution)" User executed "Register" "renew" will be	_	input Automatic	
Execution Use	#1	registered as operation user.	-	input	
		Regulatory work operation is registered to		прис	
		"4.1.7 <u>Conductor</u> 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	ing	A button that opens a modal window to set	-	-	-
		details of schedule.			
Schedule	Next	Based on the registered schedule, the	-	Automatic	-
	execution	execution date will be updated automatically.		input	
	date				
	Start date	Enter the start date of regular work execution.	0	Manual	Enter by Schedule
		"Next execution date" is always updated with		input	setting only
		the date after "Start date".			
	End date	Enter the end date of regular work execution.	-	Manual	Enter by Schedule
		The status will become "completed" if "Next		input	setting only
	Period	execution date" passed "End date".	0	Dadia	Finten by Cabadula
	Period	Select the period of regular execution. "Time", "Day", "Week", "Month (Specify day)",	0	Radio button	Enter by Schedule setting only
		"Month (Specify day of week)", "End of month"		button	Setting Only
		can be selected.			
	Interval	Select the regular execution interval based on	0	Manual	Enter by Schedule
		the selected period.		input	setting only
	Week	Used when period is "Month (Specify day of	※ 1	List	Enter by Schedule
	number	week)", select the week number to execute		selection	setting only
		work.			,
	Day of	Used when period is "Week" or "Month	※ 2	List	Enter by Schedule
	week	(Specify day of week)", select the day of week		selection	setting only
		to execute work.			
	Day	Used when period is "Month (Specify day)",	※ 3	Manual	Enter by Schedule
		select the date to execute work.		input	setting only
	Time	Enter the time of regular execution.	※ 4	Manual	Enter by Schedule
				input	setting only
Work	Start	Enter the start date/time of work suspension	※ 5	Manual	Enter by Schedule
suspension		period.		input	setting only
period		During the time between start time and end			
		time, registered Symphony will not be executed.			
	End	Enter the end date/time of work suspension	※ 5	Manual	Enter by Schedule
	LIIU	period.	26.5	input	setting only
		During the time between start time and end		iiiput	Scially Offin
		time, registered Symphony will not be			
		executed.			
<u> </u>	1	I .	1	1	

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書式変更: フォント : (英) Arial, 9 pt, フォントの色 : 黒, 模様 : なし(白)

Remarks	Free description field.	-	Manual	-
			input	

 $[\]frak{M}1$ Week number is required when period is "Month (Specify day of week)".

 $[\]frak{\%}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".

Table 4.1-24 Status list (Regular execution)

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 "4.1.74.1.6 Conductor listConductor 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 "4.1.74.1.6 Conductor listCon				
	Same as the status "In operation", system registered execution in "4.1.74.1.6 Conductor			
	listConductor 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			

S Conductor e setting. If

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(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 listConductor 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 confirmationConductor confirmation" after operation is registered, the status in "4.1.7 Conductor listConductor list" will remain "Executing".

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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	("text": "Notification name 通知名:_NOTICE_NAME_, Conductor name 名称:
(CURLOPT_POSTFIELDS)	_CONDUCTOR_NAME_, \text{br} Conductor_instance} \(\frac{4\sum 7\leq 2\sum 7}{2\sum 7\leq 2\sum 7} \)
	ID:_CONDUCTOR_INSTANCE_ID_, 〈br〉 Operation オペレーション ID:
	_OPERATION_ID_, 〈br〉Operation name オペレーション名:_OPERATION_NAME_,
	⟨br⟩Status ステータス ID: _STATUS_ID_, ⟨br>Status ステータス: _STATUS_NAME_,
	〈br〉 <u>Execution user</u> 実行ユーザー: _EXECUTION_USER_, 〈br〉 <u>Book time</u> 予約日時 :
	_TIME_BOOK_, \
	_TIME_END_, 〈br〉緊急停止フラグ Emergency shutdown flag: _ABORT_FLAG_,
	〈br〉 Operation 作業 URL: _JUMP_URL_, 〈br〉 "]
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

```
testweb 等日 13:47

通知名:通知サンブル2

Conductor名称 NULL

Conductor名称 NULL

Conductorイソスタン ID-1。

オペレーション名・OP NULL

ステータスに 定常を ア

実行ユーザー・システム管理者

デシロラは、

開始日時:2021/11/08 13:35:29,

終了日時:2021/11/08 13:35:44,

緊急停止・フラヴ・未発令。

作業 URL: http://exastro-it-automation.local/default/menu/01_browse.php?no=2100180005&conductor_instance_id=43,
```

コメントの追加 [A10]: Not translated

■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)	「username": "ITAConductor operation notification 実行通知", "text": "notification name 通知名: _NOTICE.NAME _
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	

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コメントの追加 [A11]: Not translated

■Slack notification display example

```
# NOUIIICATION OISPIAY 4

1709 通知名:通知サンプル3。
Conductor名称、NULL
Conductor名称、NULL
ConductorインスタンスD-50。
オペレーションDc.1

オペレーションを、OP.NULL
ステータスに、ティータスに、アテータスに、アディー・ア・ア・アルー位置者
予約日時、2021/11/09 16:56-53。
株丁目中 2021/11/09 16:57-08。
第章中止フラグ:未発令。
作業URL http://esastro-it-automal
       #slackテスト にメッセージを送信する
                                                                                                                                                                                                                                                                                                                                                                                                      Aa @ @ () >
```

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

Notification name	Notification sample
(CURLOPT URL)	https://sample.webhook.xxx.com/yyyyyyyy
Header	["Content-Type: application/json"]
(CURLOPT_HTTPHEADER)	
Message	{"text": "通知内容"}
(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

5.1.2 Notification log output exmaple

Notification log configuration

```
YYYY-MM-dd HH:ii:ss 通知実行結果(<ID:通知名称>,<ID:ステータス名称>)
Arrav
  [RETURN MSG] =>
                                :通知実行時の返り値
  [OPTION] => Array
                                :通知実行時のオプション
         [CURLOPT_XXXXXXXX] =>
         .....略.....
  [RESSULT] => Array
                              :通知実行結果
      (
         [url] =>
                                         :通知先 URL
         [http_code] =>
                                         :HTTP ステータスコード
          ·····略·····
```

```
Ex) Notification log (Normal)
2021-11-05 15:10:22 通知実行結果(2:通知サンプル,5:正常終了)
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": "通知名:通知サンプル2, <br> Conductor 名称:
NULL, <br> Conductor インスタンス ID:3, <br> オペレーション ID: 1, <br> オペレーション
名:OP_NULL, <br>ステータス ID: 5, <br>ステータス: 正常終了, <br>実行ユーザー: システム管理者,
<br> 予約日時: , <br>開始日時: 2021/11/05 15:10:08, <br>終了日時: 2021/11/05 15:10:18, <br>
緊急停止フラグ: 未発令, <br> 作業 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/yyyyyyyy
             [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] \Rightarrow 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 通知実行結果(1:通知サンプル,5:正常終了)
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/yyyyyyyy
                            [CURLOPT_HTTPHEADER] => Array
                                               [0] => Content-Type: application/json
                                     )
                            [CURLOPT_POSTFIELDS] => {"text": "通知名: 通知サンプル、 <br> Conductor 名称:
NULL, <br conductor インスタンス ID:3, <br />
トラーオペレーション ID: 1, <br />
トラーオペレーション
名:OP NULL, <br>ステータス ID: 5, <br>ステータス: 正常終了, <br>実行ユーザー: システム管理者,
<br> 予約日時: , <br>開始日時: 2021/11/05 15:10:08, <br/> 
緊急停止フラグ: 未発令, <br> 作業 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/yyyyyyyy
                            [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
```

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