



IT Automation Conductor 【Tutorial】

※In this document, “Exastro IT Automation” is described as “ITA”.

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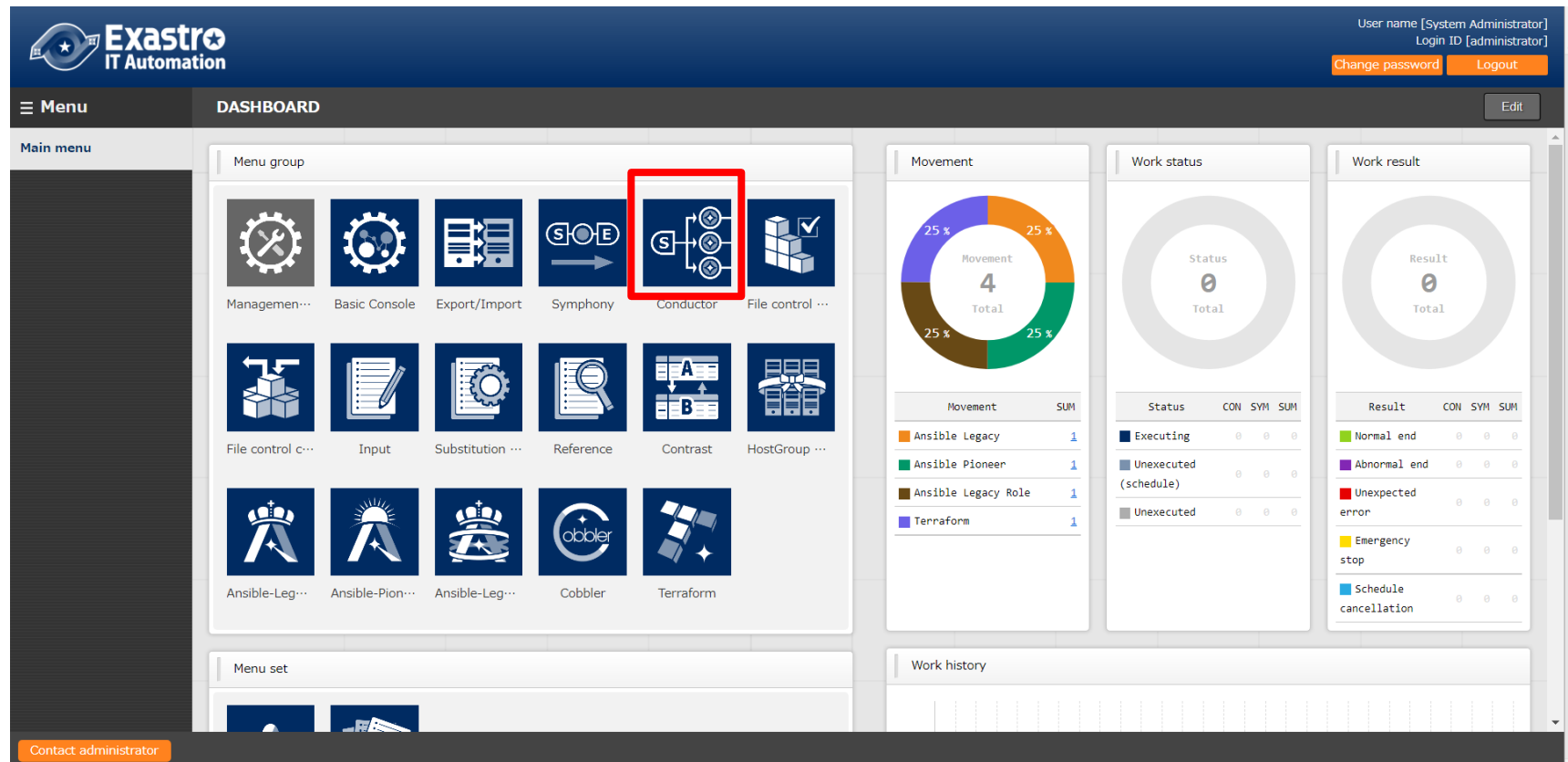
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1. Introduction

1.1 About this document

Main menu

- This document aims to introduce the reader to the “**Conductor**” menu group

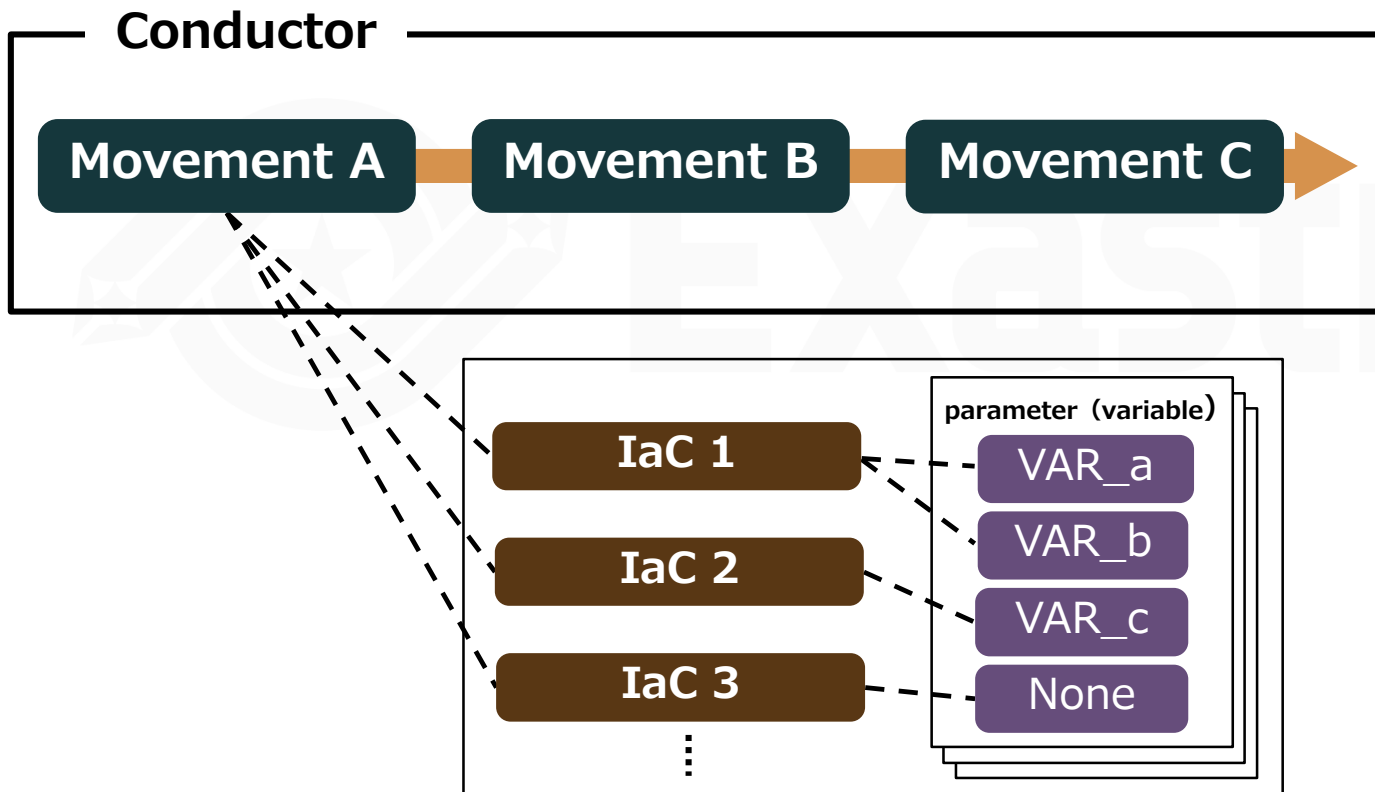


2. About Conductor



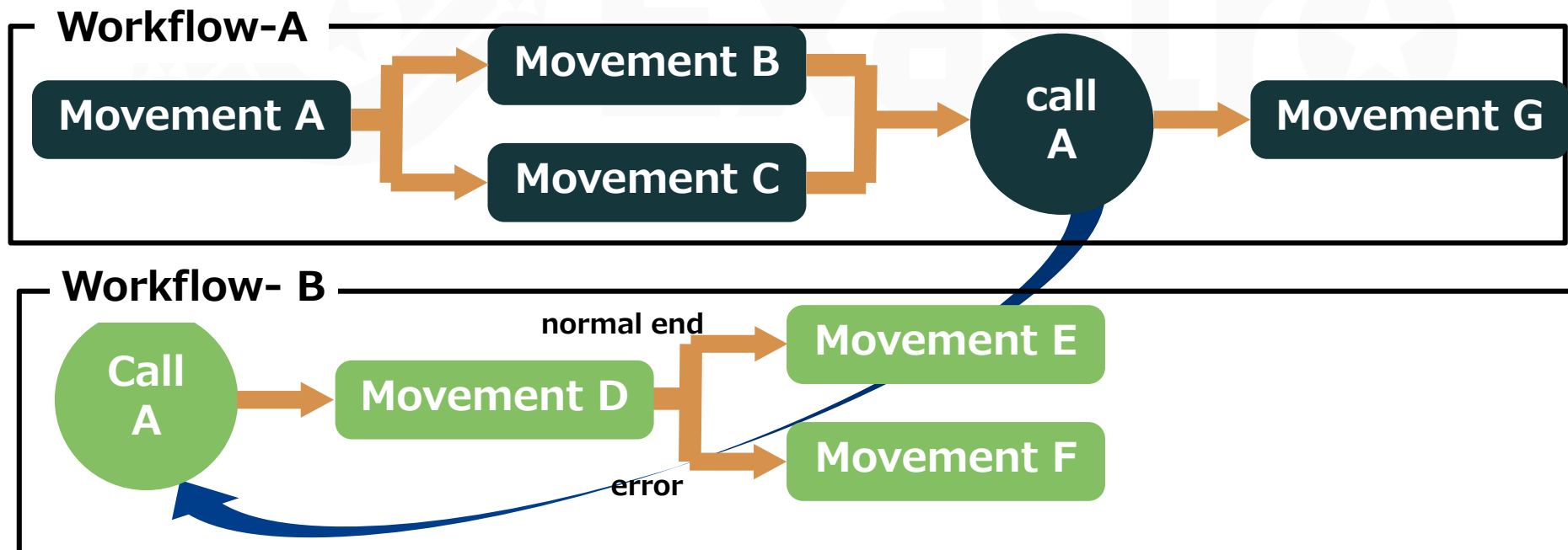
2.1 About Conductor

- Conductor is a function added in ITA Ver. 1.5.0
- Conductor allows users to specify multiple Movements into one sequence and links it to an operation before executing it.



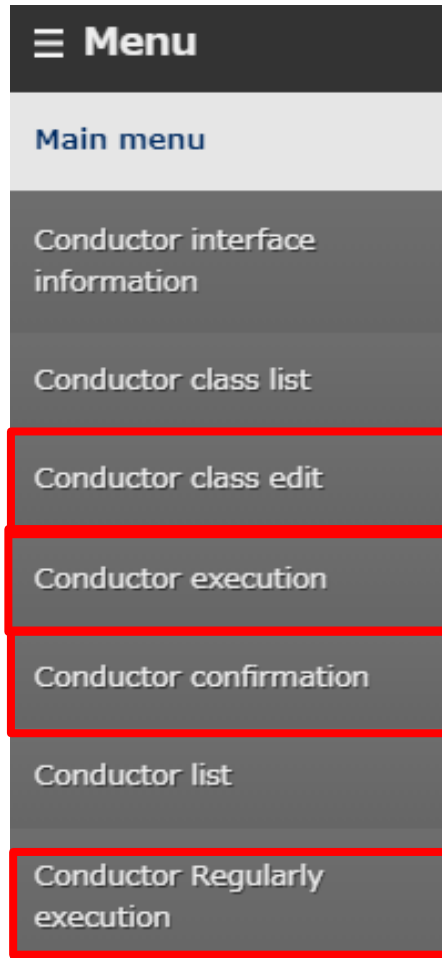
2.2 Conductor features

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



2.3 Conductor Function Description (1/12)

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



① Conductor class edit

Create an operation using previously created movement.

② Conductor execution

Execute operations.

③ Conductor confirmation

Confirm previously created operations.

④ Conductor Regularly execution

Register operations and configure regularly executed jobflows.

2.3 Conductor Function Description (2/12)

●Conductor class edit (1/4)

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

The screenshot displays the 'Conductor class edit' interface. At the top, a menu bar includes 'EDIT', 'New', 'Save', 'Read', 'Cancel', 'Redo', and 'Delete node'. The main workspace features a grid with three components: a 'Start' node (blue circle with 'S'), a central 'Legacy1' node (red circle with '1' and 'Ansible Legacy'), and an 'End' node (blue circle with 'E'). Red arrows indicate connections between these nodes. A right-hand panel shows a 'Movement' table with columns for 'Movement' and 'Function'. The table lists three items: '1', '2', and '3', each with a corresponding function name. A red box highlights the 'Movement' column header, and another red box highlights the 'Function' column header. A blue callout points to the 'Function' column header with the text 'Choose between various Functions.' A blue callout points to the red arrows with the text 'Movements can be linked by dragging a line between the "in"/"out" circles.' A blue callout points to the 'Legacy1' node with the text 'Arrange Movement by dragging and dropping.'

Movements can be linked by dragging a line between the "in"/"out" circles.

Choose between various Functions.

Arrange Movement by dragging and dropping.

2.3 Conductor Function Description (3/12)

●Conductor class edit (2/4)

- Users can use the Conditional branch function by selecting it from the “Function” tab on the right side of the screen.

The screenshot displays the Exastro Conductor class editor. The main workspace shows a workflow diagram with nodes: a 'Start' node, a 'Legacy1' node (labeled '1'), and a 'Legacy_movement' node (labeled '3'). A red arrow points from the 'Function' tab in the right-hand panel to the 'Legacy_movement' node. The 'Function' tab is highlighted with a red box, and a list of functions is visible: 'Conductor end', 'Conductor pause', 'Conductor call', 'Conditional branch', 'Parallel branch', and 'Parallel merge'. A blue callout box points to the 'Function' tab, stating: 'The arrangement of the “Function” tab can be changed by dragging and dropping them'. Another blue callout box points to the workflow diagram, stating: 'Similar to Movements, **Operations** can also be linked by dragging a line between them.' A third blue callout box points to the function list, stating: 'Users can choose between different Functions.'

EDIT New Save Read Cancel Redo Delete node

log

Registration

Default skip : ☐

Operation select

Operation :

Select Clear

Note

Movement **Function**

Conductor end

Conductor pause

Conductor call

Conditional branch

Parallel branch

Parallel merge

Similar to Movements, **Operations** can also be linked by dragging a line between them.

The arrangement of the “Function” tab can be changed by dragging and dropping them

Users can choose between different Functions.

2.3 Conductor function description (4/12)

●Conductor class edit (3/4)

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

For more information about the Node tab, please refer to [this manual](#).

The screenshot displays the Exastro software interface with three nodes connected in a sequence: a 'Start' node (S), an 'Ansible Legacy Test Movement' node (2), and an 'End' node (E). A blue callout box points to the nodes with the text: "Selecting multiple Nodes will display the Object alignment function." A red arrow points from the 'Equal space' button in the 'Node' menu to the nodes. Another blue callout box points to the 'Node' menu with the text: "Use this tab to align the selected objects to your liking." The 'Node' menu is open, showing the 'Align' section with buttons for left, right, and center alignment, and the 'Equal space' section with buttons for equal spacing and equal width. The 'Equal space' button is highlighted with a red box.

EDIT New Save Read Cancel Redo Delete node The entire display Display reset full screen

Node

Align

Equal space

Use this tab to align the selected objects to your liking.

EDIT New Save Read Cancel Redo Delete node The entire display Display reset full screen

Node

Align

Equal space

2.3 Conductor menu functions (5/12)

●Conductor class edit (4/4)

- The following explains the different functions available.
For more details, please refer to [this manual](#).









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 Jobflow temporarily. Cancel the pause to move on to next step.
	Conductor call	Calls another registered Conductor class and executes it.
	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
	Parallel branch	Execute "Movement" or "Conductor call" in parallel. ※ The maximum parallel process number depends on the configuration and server spec of ITA.

Figure	Name	Description
	Parallel merge	Execute all process when all Nodes connected to this Node are finished.
	Movement	Execute Movement

2.3 Conductor Function Description (6/12)

●Conductor execution(1/2)

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

Description

Scheduling

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

Scheduled date/time

Use this box to schedule when you want the Conductor to run.

Conductor [filter] ▾Open

Conductor [List] △Close

Select	Conductor class ID	Conductor name	Explanation	Remarks	Last update date/time	Last updated by
<input type="radio"/>	1	Sample1			2020/09/02 18:28:03	System Administrator
<input type="radio"/>	2	Test			2020/10/08 09:26:00	System Administrator

Filter result count: 2

Select Conductor and Operation.

Operation [Filter] ▾Open

Operation [List] △Close

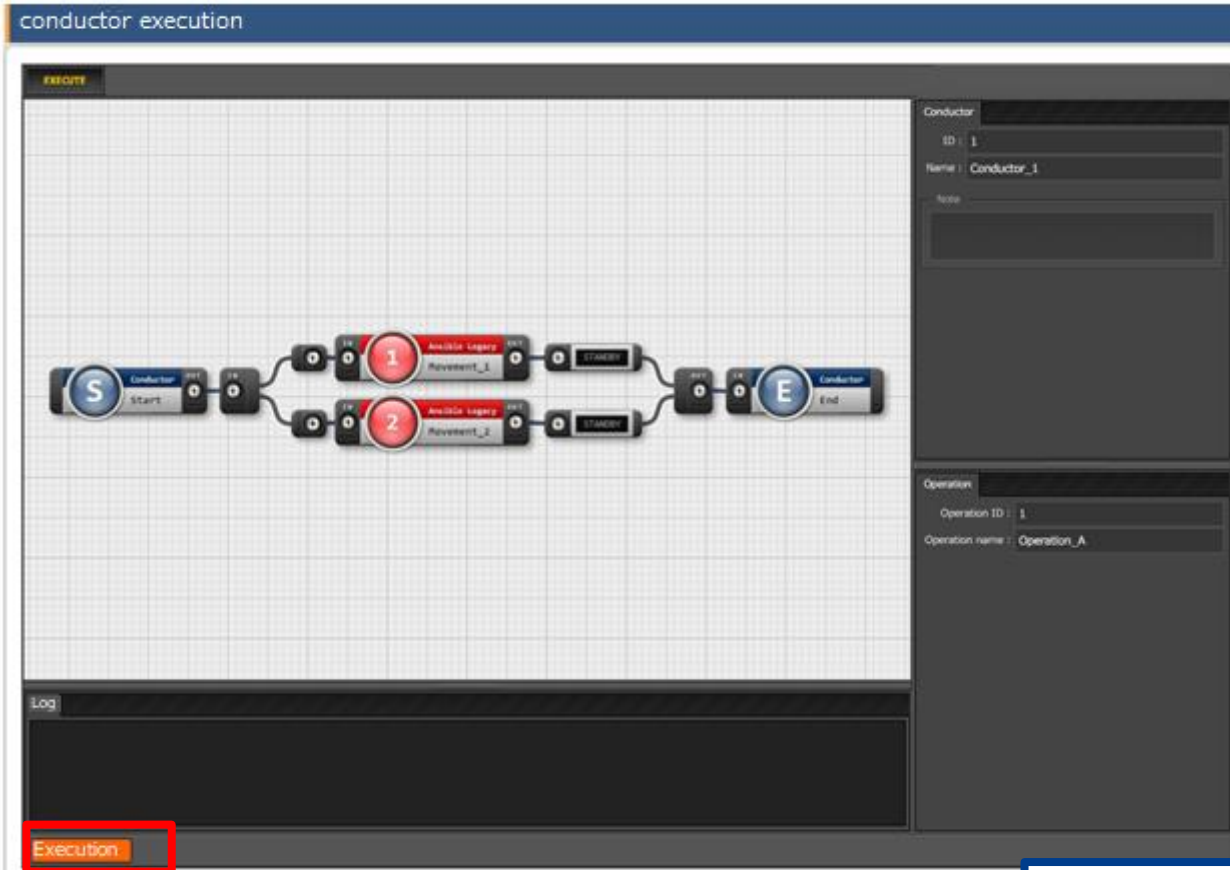
Select	No.	Operation ID	Operation name	Scheduled date for execution	Last execution date	Remarks	Last update date/time	Last updated by
<input type="radio"/>	1	1	Operation1	2020/08/27 16:15	2020/10/15 10:31		2020/10/15 10:31:18	Legacy execution procedure
<input type="radio"/>	2	2	Test Operation	2020/10/08 10:00	2020/10/16 13:45		2020/10/16 13:45:19	Legacy execution procedure

Filter result count: 2

2.3 Conductor Function Description (7/12)

●Conductor execution (2/2)

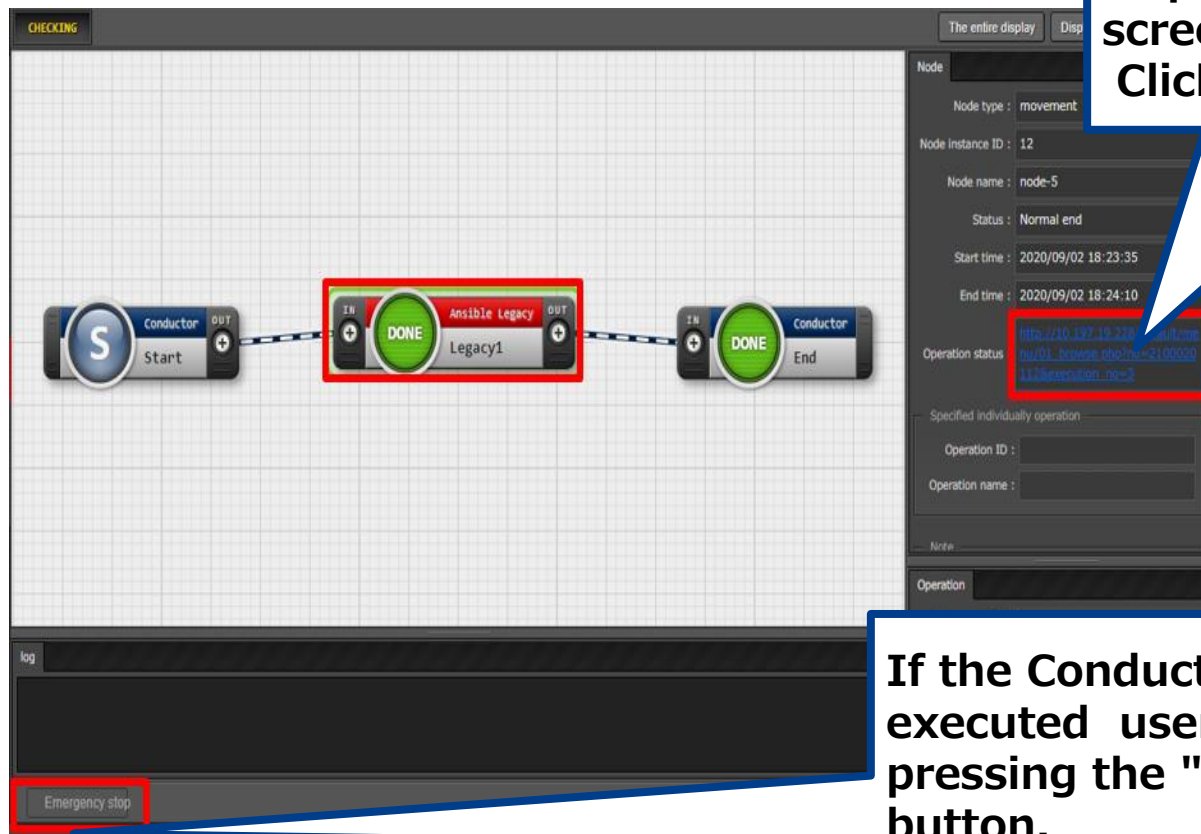
- The conductor and operation selected at the top of the page will be displayed.



If there are no problems with the contents, press the "Execute" button to execute.

2.3 Conductor (8/12)

- **Conductor confirmation**
- Check the execution status from the "Conductor Confirmation Menu".



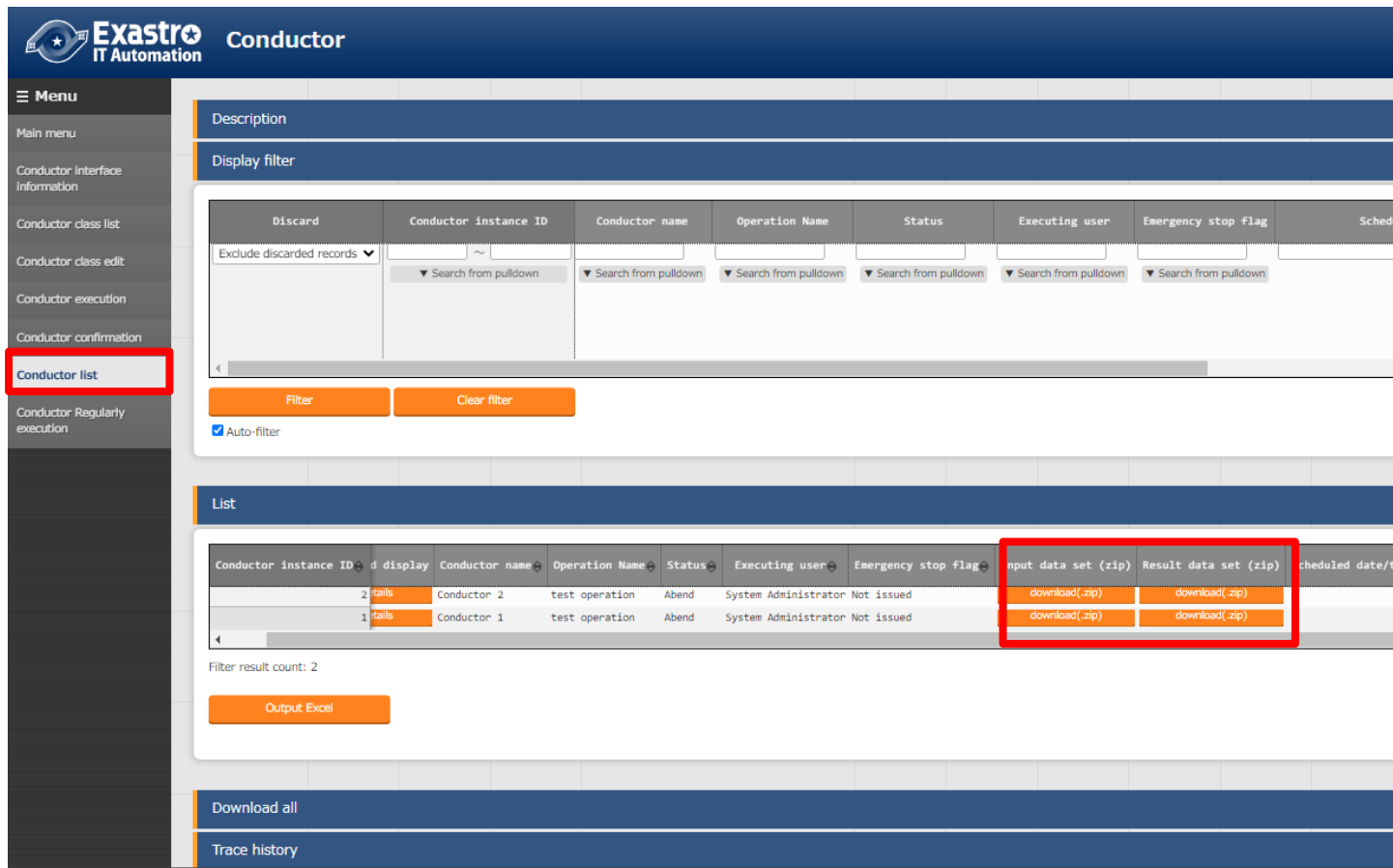
Clicking the movement will display a detailed results screen.
Click [here](#) for more details.

If the Conductor is scheduled to be executed users can cancel it pressing the " schedule cancelling" button.

2.3 Conductor Function Description (9/12)

●Conductor check (1)

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



The screenshot displays the Exastro IT Automation Conductor interface. The left sidebar menu has 'Conductor list' highlighted with a red box. The main content area shows the 'List' sub-menu, which contains a table of conductor instances. The table has columns for Conductor instance ID, Display, Conductor name, Operation Name, Status, Executing user, Emergency stop flag, Input data set (zip), Result data set (zip), and Scheduled date/time. Two rows of data are visible, each with a 'download(.zip)' button in the 'Input data set (zip)' and 'Result data set (zip)' columns, which are highlighted with a red box. Below the table, there is a 'Filter result count: 2' and an 'Output Excel' button. At the bottom, there are 'Download all' and 'Trace history' buttons.

Conductor instance ID	Display	Conductor name	Operation Name	Status	Executing user	Emergency stop flag	Input data set (zip)	Result data set (zip)	Scheduled date/time
2	tails	Conductor 2	test operation	Abend	System Administrator	Not issued	download(.zip)	download(.zip)	
1	tails	Conductor 1	test operation	Abend	System Administrator	Not issued	download(.zip)	download(.zip)	

2.3 Conductor Function Description (10/12)

●Conductor Routine Executions (1/3)

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

The screenshot displays the 'Conductor Routine Executions' interface. At the top, there is a 'Display filter' section with a 'Close' button. Below this is a table with columns: 'Discard', 'Periodic work execution ID', 'Conductor class name', 'Operation name', 'status', 'Next execution date', 'Last update date/time', and 'Last updated by'. Each column has a search input field with a 'Search from pulldown' button. Below the table are 'Filter' and 'Clear filter' buttons, and a checked 'Auto-filter' checkbox. Below the filter section are three tabs: 'List/Update', 'Register', and 'Open'. The 'Register' tab is active, showing a table with columns: 'Periodic work execution ID', 'Conductor class name', 'Operation name', 'status', 'Schedule settings', 'Next execution date', 'Start date', 'End date', 'pe', 'Last update date/time', and 'Last updated by'. The 'Schedule settings' column has a red button labeled 'Schedule settings'. Below the table is a note '※*is a required item.' and 'Back' and 'Register' buttons.

A detailed schedule can be set from the "Schedule Settings" button.

2.3 Conductor Function Description (11/12)

●Conductor Routine Executions (2/3)

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

Set a schedule

Work period
* Start date: 2020/10/19 11:00 End date: 2020/10/29 23:27

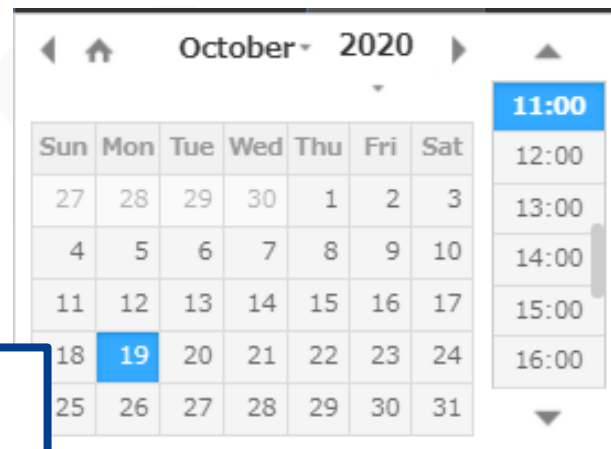
Schedule
☒ Time
☐ Day
☐ Week
☐ Month(Specify day)
☐ Month(Specify day of week)
☐ End of month

* Interval: 5 Time

Work suspension period
2020/10/06 23:00

Note

Clicking here will display a calendar.



現在日時「2021/8/31 00:00」に
左図のようにスケジュール設定した場合
Conductorの実行日時は以下ようになります。

初回(=次回実行日付) : 2021/09/01 00:00
2回目 : 2021/09/01 08:00
3回目 : 2021/09/01 16:00

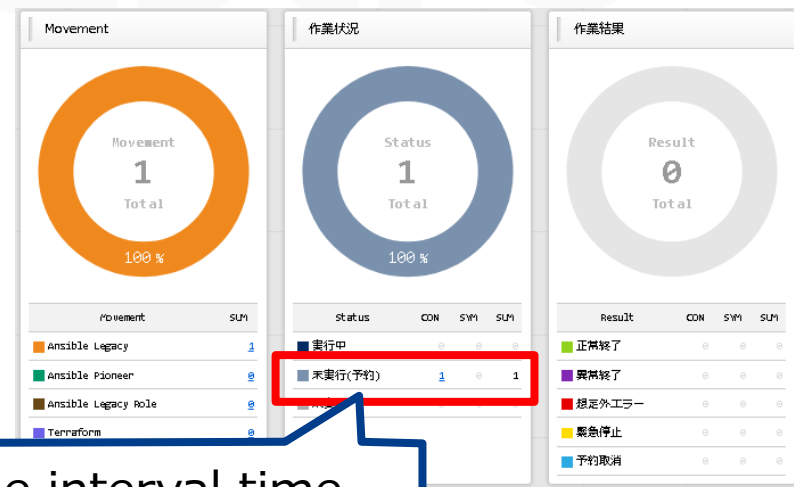
2.3 Conductor Function Description (12/12)

●Conductor Routine Executions (3/3)

- Any Conductor operations registered with a scheduled routine will display "Not executed (Reserved)" when the first interval time before the first scheduled execution date passes. (The default interval (time) value is 3 minutes). The Interval time can be changed by the user in the "Management console" > "System settings" menu. For more information, please see XXX 変更手順は[管理コンソールの利用手順マニュアル](#)をご参照ください。
- Conductor/Symphonies with the status "Unexecuted (Schedule)" can be seen in the "Work status" field in the dashboard and in the "Conductor list" menu.

If the next execution date is set to "2021/9/1 18:00" and the interval is set to 3 minutes, the status will change to "Unexecuted (Schedule)" 17:57 2021/9/1.

The screenshot shows the Exastro Conductor interface. On the left is a sidebar menu 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', etc. The main area displays a table of operations. The table has columns for '履歴' (History), 'ConductorインスタンスID', '詳細表示' (Detailed View), 'Conductor名称' (Conductor Name), 'オペレーション名' (Operation Name), 'ステータス' (Status), '実行ユーザ' (Execution User), and '緊急停止発令フラグ' (Emergency Stop Flag). A row is highlighted with a red box around the status '未実行(予約)' (Not executed (Reserved)). Below the table, it says 'フィルタ結果件数: 1' (Filtered result count: 1) and there is an 'Excel出力' (Excel Output) button.



Will display when the interval time before the next execution date passes.

2.4 Conductor workflow

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

① Register device information

Basic console menu

② Register operation

③ Register Movement

Various driver menus

④ Check Movement

⑤ Register interface information

Conductor menu

⑥ Register Conductor

⑦ Check Conductor

⑧ Execution Conductor

⑨ Check execution result

⑩ Check execution history



Exastro