



IT Automation Quick Start

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

Table of Contents

1. Introduction

- 1.1 Web Console Login Screen
- 1.2 Screen Description: Main menu
- 1.3 Screen Description: Other Menus (1/2)
- 1.4 Screen Description: Other Menus (2/2)

2. Procedure Description

- 2.1 Overall Procedure and Work Scope

3. Preparation

- 3.1 Registering an IaC (1/3)
- 3.2 Registering an IaC (2/3)
- 3.3 Registering an IaC (3/3)
- 3.4 Creating the Workflow Including the IaC
- 3.5 Registering a Target Linux Machine in Device list

4. Execution

- 4.1 Registering a New Operation Name
- 4.2 Connecting the Target to the IaC
- 4.3 Executing the Workflow

A Appendix

- Reference 1 Ansible-Legacy: Single Execution
- Reference 2 Ansible-Legacy: Checking the Operation Results
- Reference 3 How to Check the Symphony Execution Results
- Reference 4 Sample Collection of Playbook

1. Introduction

1.1 Web Console Login Screen

Web console **Login** Screen

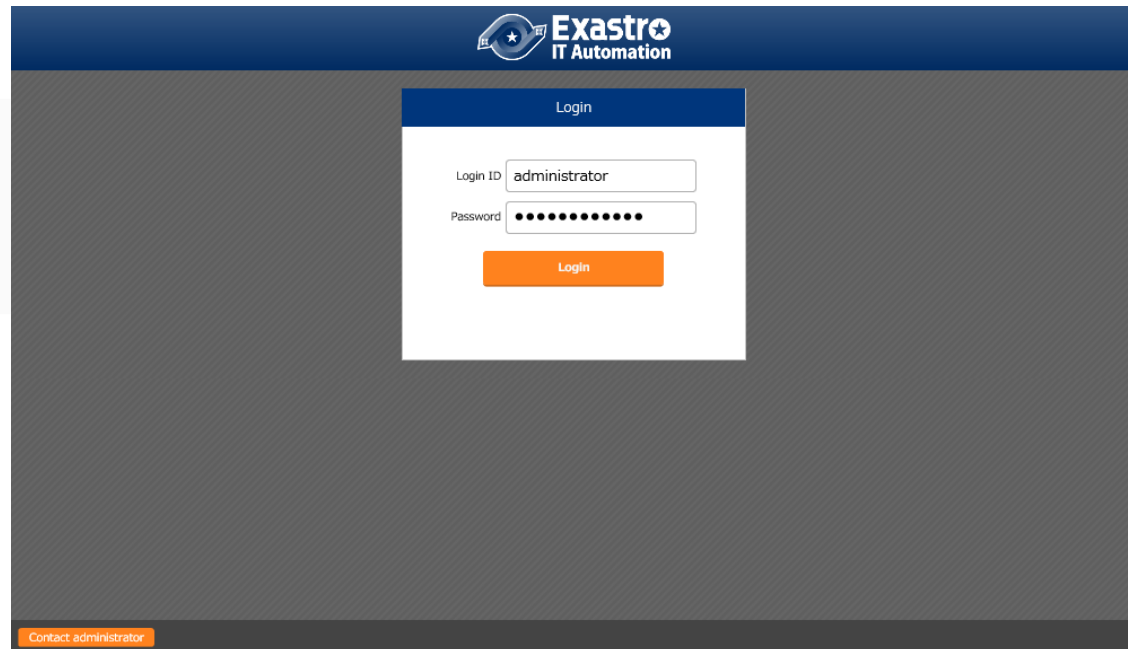
- Access the following URL to display the **Login** screen:
<https://exastro-it-automation/>

POINT

Immediately after the first login, you will be prompted to change your password.

POINT

To deploy IT Automation, refer to "[ITA-online-install_en.pdf](#)".

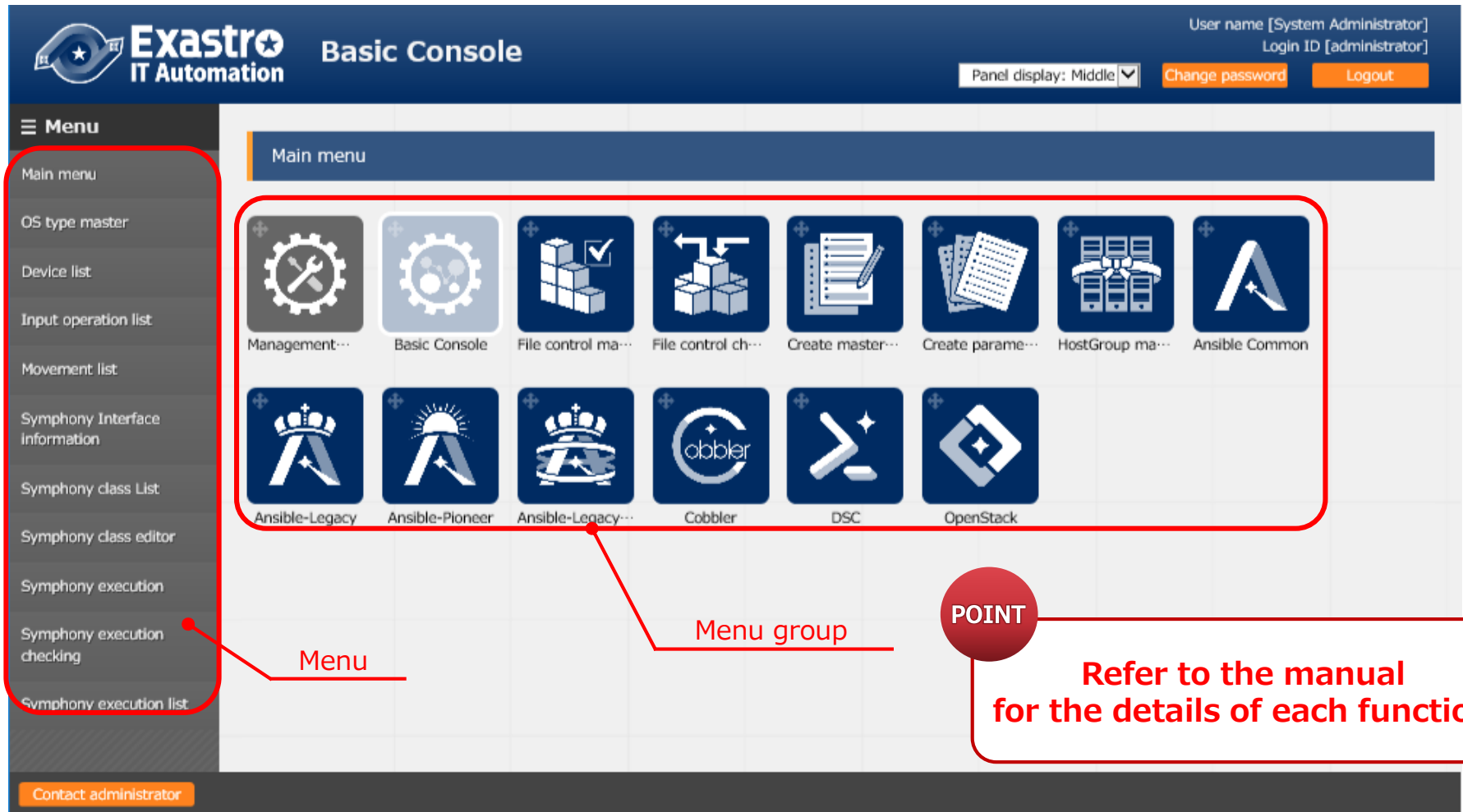


The screenshot shows the Exastro IT Automation login interface. At the top, there is a dark blue header with the Exastro logo and the text "Exastro IT Automation". Below the header, the main content area has a dark gray background. In the center, there is a white login form with a blue header labeled "Login". The form contains two input fields: "Login ID" with the value "administrator" and "Password" with masked characters. Below these fields is an orange "Login" button. At the bottom left of the page, there is a small orange button labeled "Contact administrator".

1.2 Screen Description: Main menu

Screen description: **Main menu**

- Basic names are as follows:



1.3 Screen Description: Other Menus (1/2)

Screen description: other menus

- Basic names are as follows:

Exastro IT Automation Basic Console

User name [System Administrator]
Login ID [administrator]
Change password Logout

Menu
Main menu
OS type master
Device list
Input operation list
Movement list
Symphony Interface Information
Symphony class List
Symphony class editor
Symphony execution
Symphony execution checking
Symphony execution list

Description
Display filter
List/Update
Register

Discard	OS type ID	OS type name	Device type			Remarks
			SV	NW	ST	
Exclude discarded records	~					
	Search from pulldown	Search from pulldown	Search from pulldown	Search from pulldown	Search from pulldown	

Filter Clear filter

Auto-filter

OS type ID OS type name* Device type Remarks

SV NW ST

Auto-input os

Back Register

Download all and edit file uploads
Trace history

Contact administrator

POINT

Refer to the manual
for the details of each function.

Submenu outline

- Description** : Describes the menu being displayed.
- Display filter** : Allows you to search for registered information.
- List/Update** : Displays the registered information.

1.4 Screen Description: Other Menus (2/2)

Screen description: other menus

- Basic names are as follows:

The screenshot displays the Exastro Basic Console interface. The top header includes the Exastro logo, the title 'Basic Console', and user information: 'User name [System Administrator]' and 'Login ID [administrator]'. There are buttons for 'Change password' and 'Logout'. A left sidebar menu lists various options: 'Menu', 'Main menu', 'OS type master', 'Device list', 'Input operation list', 'Movement list', 'Symphony Interface Information', 'Symphony class List', 'Symphony class editor', 'Symphony execution', 'Symphony execution checking', and 'Symphony execution list'. The 'OS type master' menu is selected, showing a list of functions: 'Description', 'Display filter', 'List/Update', 'Register', and 'Download all and edit file uploads'. Below this list are buttons for 'Download all (Excel)' and 'Download for new registration (Excel)'. There is also an 'Upload status' section with an 'Upload file' button. At the bottom, there is a 'Trace history' section with an 'OS type ID' input field and 'Display' and 'Reset' buttons. A red box highlights the 'Register' and 'Download all and edit file uploads' functions. A red circle with the word 'POINT' is next to a callout box that says 'Refer to the manual for the details of each function.' Another callout box at the bottom right provides a submenu outline for 'Register', 'Download all and edit file uploads', and 'Trace history'.

Exastro IT Automation Basic Console

User name [System Administrator]
Login ID [administrator]
Change password Logout

Menu

Main menu

OS type master

Device list

Input operation list

Movement list

Symphony Interface Information

Symphony class List

Symphony class editor

Symphony execution

Symphony execution checking

Symphony execution list

Description ▾Open

Display filter ▾Open

List/Update ▾Open

Register ▾Open

Download all and edit file uploads ▴Close

Download all (Excel)

Download for new registration (Excel)

Upload status:

Upload file

Trace history

OS type ID

Display Reset

Contact administrator

POINT

Refer to the manual
for the details of each function.

Submenu outline

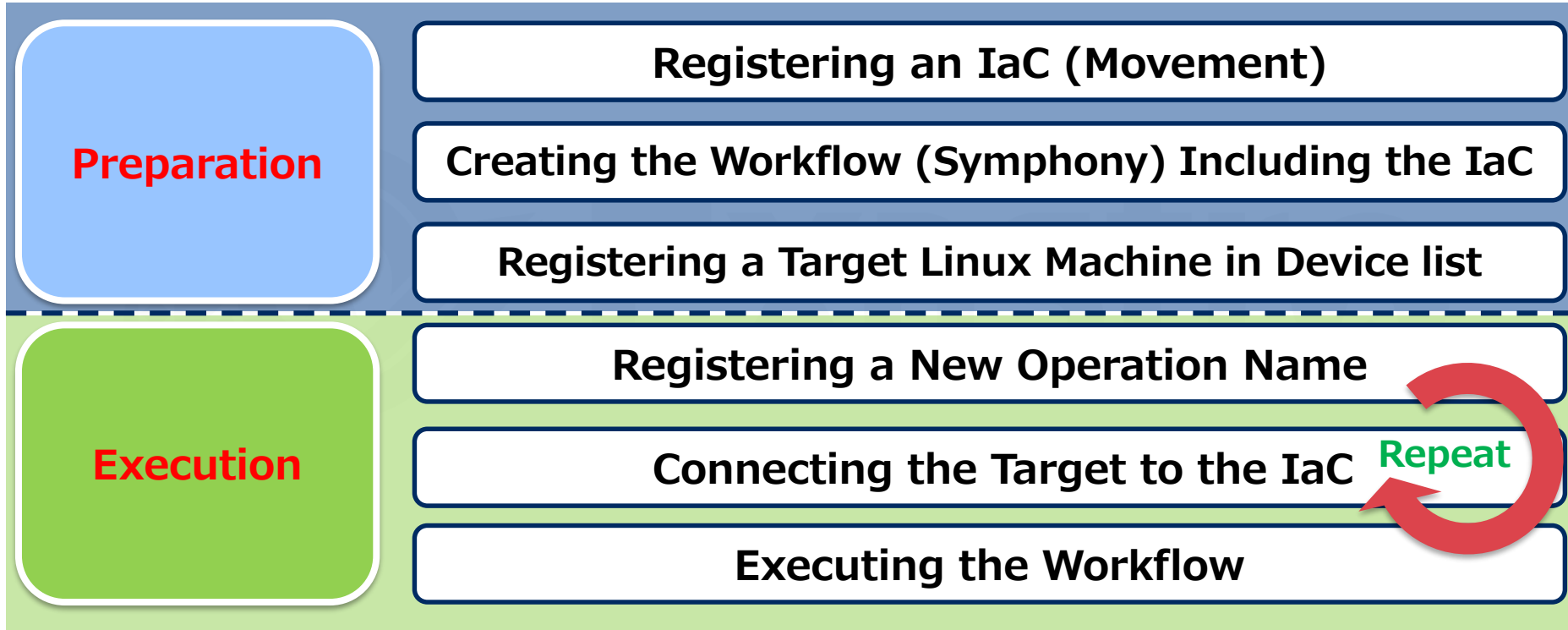
- Register** : Allows you to register records from the Web.
- Download all and edit file uploads** : Allows for IN/OUT processing with Excel.
- Trace history** : Allows you to display the track changes of registered records.

2. Procedure Description

2.1 Overall Procedure and Work Scope

Post-deployment procedure including executing Ansible-Legacy

- The following illustrates the overall procedure and work scope for developers/operators:



POINT

The preparation contains IaC registration and workflow creation. The execution includes repeatedly performing the registered workflow.

3. Preparation

3.1 Registering an IaC (1/3)

Registering a new Movement in **Movement list**

- From the **Main menu** screen, select **Ansible-Legacy** > **Movement list**. To start the registration, click the **Register** button.

The screenshot shows the Exastro IT Automation Ansible-Legacy web interface. The top navigation bar includes the Exastro logo, the text 'Ansible-Legacy', and user information: 'User name [System Administrator]' and 'Login ID [administrator]'. There are 'Change password' and 'Logout' buttons. A left sidebar menu contains 'Menu', 'Main menu', 'Movement list' (highlighted), 'Playbook files', 'Movement details', 'Substitution value auto-registration setting', 'Target host', 'Substitution value list', 'Execution', 'Check operation status', and 'Execution list'. The main content area shows a table with columns: 'Description', 'Display filter', 'List/Update', and 'Register'. The 'Register' button is highlighted with a red box and a callout '1'. Below the table is a form for registering a new movement. The form has a table structure with columns: 'Movement ID', 'Movement Name*', 'Delay timer', 'Host specific format*', and 'WinRM connection'. The 'Movement Name' field is highlighted with a red box and a callout '2'. Below the form is a note: '※ * is a required item.' and two buttons: 'Back' and 'Register'. At the bottom of the page is a 'Contact administrator' button.

Movement ID	Movement Name*	Delay timer	Host specific format*	WinRM connection
Auto-input:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Registering an IaC

Creating the Workflow Including the IaC

Registering a Target Linux Machine in Device list

Registering a New Operation Name

Connecting the Target to the IaC

Executing the Workflow

POINT

The following are mandatory fields:

- **Movement Name**
- **Host specific format**

*Movement: A name of minimum work

3.2 Registering an IaC (2/3)

Registering a new playbook in **Playbook files**

- From the **Main menu** screen, select **Ansible-Legacy** > **Playbook files**. To start the registration, click the **Register** button.

*If no playbook is prepared, use any of the playbooks described in Appendix (**Reference 4**).

The screenshot shows the 'Playbook files' registration form in the Exastro IT Automation interface. The form has a left sidebar with a 'Menu' section containing links like 'Main menu', 'Movement list', 'Playbook files', 'Movement details', 'Substitution value auto-registration setting', 'Target host', 'Substitution value list', 'Execution', 'Check operation status', and 'Execution list'. The main form area has a table with columns: 'Playbook', 'Playbook name*', 'Playbook files*', 'Remarks', and 'Last update'. The 'Playbook' column has an 'Auto-input' dropdown. The 'Playbook name*' column has a text input field. The 'Playbook files*' column has a text input field, an 'Upload in advance' button, and an 'Upload status:' label. A red box highlights the 'Playbook name*' and 'Playbook files*' fields, with a red circle '1' pointing to the 'Playbook name*' field. Below the table, there is a note '※* is a required item.' and two buttons: 'Back' and 'Register'. A red box highlights the 'Register' button, with a red circle '2' pointing to it. A red callout box with white text says: '*When uploading a playbook, specify the file and then make sure to click the **Upload in advance** button.'

Registering an IaC

Creating the Workflow Including the IaC

Registering a Target Linux Machine in Device list

Registering a New Operation Name

Connecting the Target to the IaC

Executing the Workflow

POINT

The following are mandatory fields:

- **Playbook name**
- **Playbook files**

3.3 Registering an IaC (3/3)

Registering in **Movement details**

- From the **Main menu** screen, select **Ansible-Legacy** > **Movement details**. To start the registration, click the **Register** button.

Exastro IT Automation Ansible-Legacy

User name [System Administrator]
Login ID [administrator]
Change password Logout

Menu

- Main menu
- Movement list
- Playbook files

Movement details

Substitution value auto-registration setting

Target host

Substitution value list

Execution

Check operation status

Execution list

Contact administrator

Description

Display filter

List/Update

1

In the **Include order** field, specify the order in which multiple playbooks are registered for each Movement. For 1:1, enter 1.

Associated item No.	Movement*	Playbook files*	Include order*	Remarks	Last
Auto-input					Auto

※ * is a required item.

Back Register

2

Download all and edit file uploads

Trace history

Registering an IaC

Creating the Workflow Including the IaC

Registering a Target Linux Machine in Device list

Registering a New Operation Name

Connecting the Target to the IaC

Executing the Workflow

POINT

The following are mandatory fields:

- **Movement**
- **Playbook files**
- **Include order**

3.4 Creating the Workflow Including the IaC

Creating a workflow in **Symphony class editor**

- From the **Main menu** screen, select **Basic Console** > **Symphony class editor**.

The screenshot displays the 'Basic Console' interface of Exastro IT Automation. The left sidebar contains a 'Menu' with options like 'Main menu', 'OS type master', 'Device list', 'Input operation list', 'Movement list', 'Symphony Interface information', 'Symphony class List', 'Symphony class editor', 'Symphony execution', 'Symphony execution checking', and 'Symphony execution list'. The main area is titled 'Edit Symphony' and contains a form for creating a new Symphony class. The form includes fields for 'Symphony class ID' and 'Auto numbering' (annotated with a red box and '1' and the text 'Register a Symphony name.'), and a 'Symphony class name' field. Below these is a 'Start' button and a large yellow area for the workflow. A 'move01' operation is shown in the workflow, with a red box and '2' and the text 'Drag and drop' pointing to it. A red box and '3' and the text 'Text such as a work description can be entered.' point to the 'move01' operation. At the bottom of the form is a 'Register' button (annotated with a red box and '3'). The top right of the interface shows the user name 'System Administrator' and login ID 'administrator', along with 'Logout' and 'Logout' buttons. The bottom left has a 'Contact administrator' button.

Registering an IaC

Creating the Workflow Including the IaC

Registering a Target Linux Machine
in Device list

Registering a New Operation Name

Connecting the Target
to the IaC

Executing the Workflow

POINT

From the list of created Movements,
drag and drop the desired Movement
to register it.

3.5 Registering a Target Linux Machine in Device list

Registering a new target host in **Device list**

- From the **Main menu** screen, select **Basic Console** > **Device list**.
To start the registration, click the **Register** button.

The screenshot shows the 'Basic Console' interface of Exastro IT Automation. The left sidebar contains a 'Menu' with options: Main menu, OS type master, **Device list**, Input operation list, Movement list, Symphony Interface information, Symphony class List, Symphony class editor, Symphony execution, Symphony execution checking, and Symphony execution list. The main content area is titled 'Device list' and contains a 'Register' button (circled in red with a '3' in a speech bubble). Below the button is a table with columns: Managed system item number, HW device type, Host name*, IP address*, MAC address, Network device name, Login user ID, and Login password. The 'Host name*' and 'IP address*' fields are highlighted with a red box and a '4' in a speech bubble. Below the table, there is a 'Back' button and a 'Register' button (circled in red with a '4' in a speech bubble). At the bottom, there are links for 'Download all and edit file uploads' and 'Trace history'. The top right corner shows the user name 'System Administrator' and login ID 'administrator', with 'Change password' and 'Logout' buttons.

Registering an IaC

Creating the Workflow Including the IaC

Registering a Target Linux Machine in Device list

Registering a New Operation Name

Connecting the Target to the IaC

Executing the Workflow

POINT

For executing Ansible-Legacy, the following are mandatory fields:

- **Host name**
- **IP address**
- **Login user ID**
- **Login password management**
- **Login password**
- **Authentication method***

*This document describes it as password authentication.

4. Execution

4.1 Registering a New Operation Name

Registering a new operation name on **Input operation list**

- From the **Main menu** screen, select **Basic Console** > **Input operation list**. To start the registration, click the **Register** button.
- *Operation refers to the **operation name** used in the IT Automation system that indicates the whole operation.

Menu

Main menu

OS type master

Device list

Input operation list

Movement list

Symphony Interface Information

Symphony class List

Symphony class editor

Symphony execution

Symphony execution checking

Symphony execution list

Description ▾Open

Display filter ▾Open

List/Update ▾Open

Register ▴Close

No.	Operation ID	Operation name*	Scheduled date for execution*	Remarks	Last update date/time	Last updated by
Auto-input	Auto-input				Auto-input	Auto-input

※ * is a required item.

Back Register

Download all and edit file uploads ▾Open

Trace history ▾Open

Registering an IaC

Creating the Workflow Including the IaC

Registering a Target Linux Machine in Device list

Registering a New Operation Name

Connecting the Target to the IaC

Executing the Workflow

POINT

- The following are mandatory fields:
- **Operation name**
 - **Scheduled date for execution**

4.2 Connecting the Target to the IaC

Registering on Target host

- From the **Main menu** screen, select **Ansible-Legacy** > **Target host**. To start the registration, click the **Register** button.

Menu

- Main menu
- Movement list
- Playbook files
- Movement details
- Template list
- File list
- Substitution value auto-registration setting
- Target host**
- Substitution value list
- Execution
- Check operation status
- Execution list

Description ▾Open

Display filter ▾Open

List/Update ▾Open

Register △Close

Item No. Operation* Movement* Host* /time Last updated by

Auto-input ▾ ▾ ▾ Auto-input

※* is a required item.

Back Register

Download all and edit file uploads ▾Open

Trace history ▾Open

1

From the **Host** list, select the desired target device.

2

Registering an IaC

Creating the Workflow Including the IaC

Registering a Target Linux Machine
in Device list

Registering a New Operation Name

Connecting the Target
to the IaC

Executing the Workflow

POINT

The following are mandatory fields:

- **Operation**
- **Movement**
- **Host**

4.3 Executing the Workflow

Executing Symphony

- From the **Main menu** screen, select **Basic Console** > **Symphony execution**.

The screenshot displays the Symphony execution interface. On the left is a 'Menu' sidebar with options: Main menu, OS type master, Device list, Input operation list, Movement list, Symphony Interface information, Symphony class List, Symphony class editor, Symphony execution, Symphony execution checking, and Symphony execution list. The main area is divided into sections for Symphony and Operation management.

POINT

From **Symphony** and **Operation**, select items to be executed.
*General procedure manual > Symphony
*Replacement table > Operation

1

Filter result count: 1

Select	Symphony class ID	Symphony name	Description	Remarks	Last update date
<input checked="" type="radio"/>	1	workflow			2019/05/10 14:32:37

2

Filter result count: 1

Select	No.	Operation ID	Operation name	Scheduled date for execution	Last execute date	Remarks	Last update
<input checked="" type="radio"/>	1	1	operation	2020/05/01 15:00			2019/05/10

3

End

Registering an IaC

Creating the Workflow Including the IaC

Registering a Target Linux Machine in Device list

Registering a New Operation Name

Connecting the Target to the IaC

Executing the Workflow

A Appendix

Reference 1 Ansible-Legacy: Single Execution

Execution

- In Ansible-Legacy, the **Execution** menu offers the **Execute** and **Dry run** functions for each Movement.

The screenshot shows the Ansible-Legacy web interface. The left sidebar contains a menu with options: Main menu, Movement list, Playback files, Movement details, Template list, File list, Substitution value auto-registration setting, Target host, Substitution value list, Execution, Check operation status, and Execution list. The main content area is divided into sections for Movement and Operation. The Movement section has a 'Description' field and a 'Scheduling' section with a 'Specify the scheduled date/time in (YYYY/MM/DD HH:MM). Immediately execute when blank.' label and a 'Scheduled date/time' input field. Below this is a 'Movement [Filter]' and 'Movement [List]' section. A red callout '1' points to the 'Movement [List]' table, which contains one row: '1 move1 Ansible Legacy IP Implement'. The Operation section has an 'Operation [Filter]' and 'Operation [List]' section. A red callout '2' points to the 'Operation [List]' table, which contains one row: '1 1 operation 2020/05/01 15:00 2019/05/10 14:18:03 System Administrator'. A red callout '3' points to the 'Dry run' and 'Execute' buttons at the bottom of the interface.

1 Select the created Movement

2 Select the operation connected to the Movement

3 Dry run: Checks the playbook connection/syntax
Execute: Executes the playbook

Reference 2 Ansible-Legacy: Checking the Operation Results

Checking the operation results

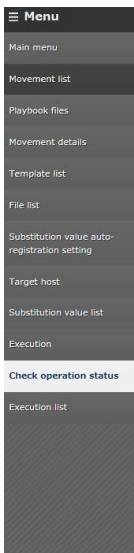
- Performing the function (**Execute** or **Dry run**) displays the execution status and logs.

Execution status:
Allows you to check
the execution evidence
and the input data.

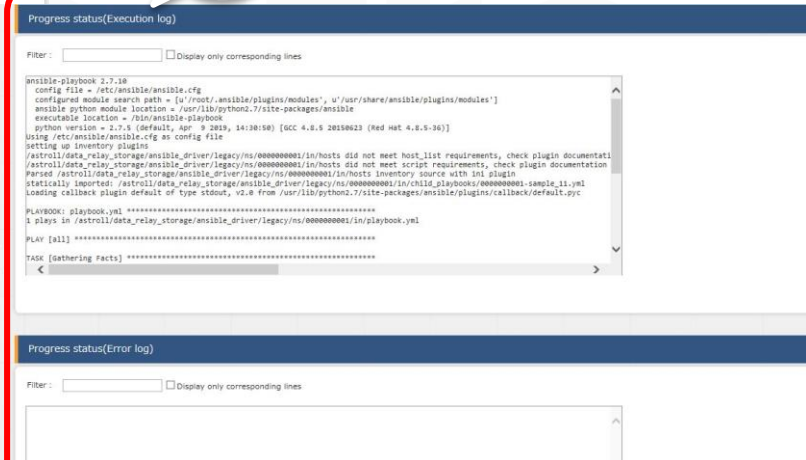
point

point

Execution log and Error log:
Can be checked in real time.



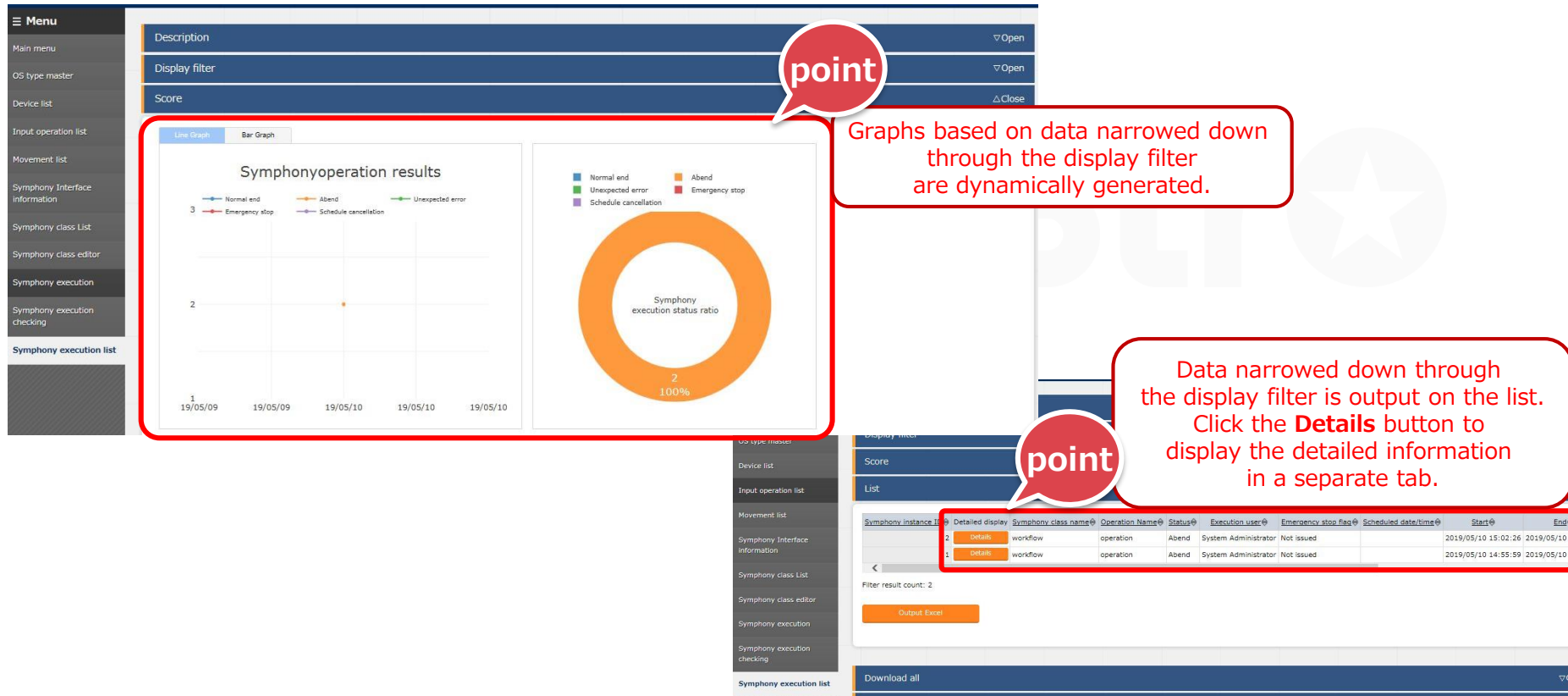
Description		▽Open	
Target Operation		△Close	
Item		Value	
Execution type		Normal	
Status		Completed (error)	
Execution user		System Administrator	
Movement	ID	1	
	Name	move1	
	Delay timer (minutes)		
Dedicated information for ansible	Host specific format	IP	
	Number of parallel execution		
	WinRM connection	gather_facts	
Operation		Implement	
Host management	No.	1	
	Name	operation	
Substitution value	ID	1	
Input data	Populated data	InputData_0000000003.zip	
	Result data	ResultData_0000000003.zip	
Scheduled date/time			
Operation status	Start date/time	2019/05/10 15:02:27	
	End date/time	2019/05/10 15:02:29	



Reference 3 How to Check the Symphony Execution Results

Checking the execution results on **Symphony execution list**

- From the **Main menu** screen, select **Basic Console** > **Symphony execution list**.



Reference 4 Sample Collection of Playbook

Sample playbooks (for Linux servers)

- The following playbooks are samples.

They can be used as is, but you can freely change the parts in red.

*The character code is "UTF-8", the line feed code is "LF", and the extension is "yml" format.

Keep the indents in mind.

- name: Make Work Directory demonstration file:

path: **/tmp/demodirectory**
state: **directory**
mode: **0755**

point

A directory called "demodirectory" is created under the /tmp directory.

- name: Sample User add user:

name: **ITA**
createhome: **no**
uid: **4401**
group: **users**

point

An ITA user is created.
Delete the user after checking the operation.

- name: Collect Files fetch:

src=**/etc/hosts**
dest={{ __workflowdir__ }}/{{ inventory_hostname }}
flat=yes

point

The following definition is reserved variables prepared in advance that are used when a file is brought back to the IT Automation server.

{{ __workflowdir__ }}/{{ inventory_hostname }}

point

/etc/hosts files are collected.
The collected files are gathered in the zip file of the result data.



Exastro