

IT Automation BASE Tutorial

%"Exastro IT Automation" is written as "ITA" in this document

Table of contents

- 1. Introduction
 - 1. About this document
 - 2. Standard workflow for Management Console and Export/Import
 - 3. Standard workflow for Basic Console and Symphony
- 2. Explanation for Management Console
 - 1. System settings
 - 2. RBAC (Role Based Access Control)
 - 3. Export/Import
 - 4. Device management in ITA
 - 5. Operation outline
 - 6. Symphony class definition
 - 7. Symphony execution

1. Introduction



1.1 About this document

Main Menu

 This document describes the Management console, Basic Console, Export/Import and Symphony menu groups

Management Console

- System settings
- RBAC (Role Based Access Control)

Basic Console

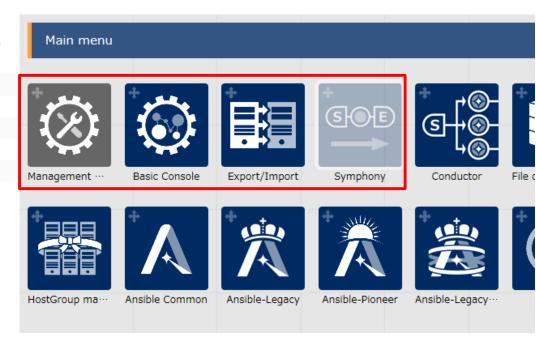
- Device management in ITA
- Operation overview

Export/Import

- Export menu
- Import menu

Symphony

- Symphony class definition
- Symphony execution



1.2 Standard workflow for Management Console and Export/Import

Workflow Menu Group Menu **Basic Console** 2.1 **System settings System settings** 2.2 Menu group list **RBAC** (Role Based Access Control) Menu list **Role list User list** Role/Menu link list Role/User link list **Export/Import** 2.3 **Export/Import Export menu** Import menu **Export/Import menu list**

1.3 Standard workflow for Basic Console and Symphony

Workflow Menu Menu Group **Basic Console** Device management in ITA **Device list Operation overview** Input operation list **Movement list** Symphony Symphony interface information 2.6 Symphony class definition Symphony class list Symphony class edit Symphony execution Symphony execution Symphony execution checking Symphony execution list

2.1 System Settings (1/2)

Workflow **Menu Group** Menu Management 2.1 **System settings System settings Console** 2.2 **RBAC** Menu group list (Role Based Access Control) Menu list Role list **User list** Role/Menu link list Role/User link list **Export** 2.3 **Export/Import Export Menu** /Import **Import Menu Export/Import menu list**

2.1 System Settings (2/2)

In the "System Settings" menu, users can register all the necessary information for operating the system.

The settings items are as shown below.

Item name	Description
IP address restrictions	Choose if access by IP address to be regulated or not
Upload prohibition extension	Extension file names that prohibit upload
Account lock duration (seconds)	Time period(seconds) to maintain locked state from start time of account lock.
Password error threshold (frequency)	Password failure threshold before locking account
Password error count upper limit (frequency)	Max amount of times continuous password errors
Password re-registration prevention period (days)	Time period (days) to prevent registration of same password
Password validity period (days)	Validity period of password (days)
Authentication duration: Not operated(seconds)	Time period (seconds) the session is valid with no operation
Authentication duration: Maximum period (seconds)	Maximum time period (seconds) a session.

2.2 RBAC (Role Based Access Control) (1/4)

Workflow **Menu Group** Menu Management **System settings** 2.1 **System settings** Console 2.2 Menu group list **RBAC** (Role based access control) Menu list Role list **User list** Role/Menu link list Role/User link list Export/ 2.3 **Export/Import Export Menu Import Import Menu Export/Import Menu list**

2.2 RBAC (Role Based Access Control) (2/4)

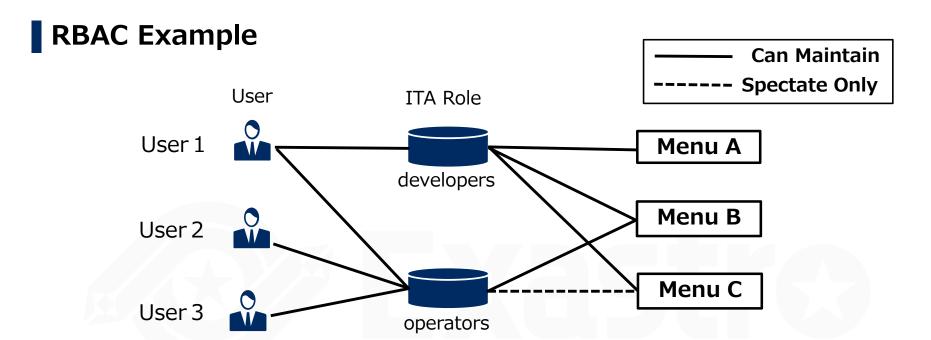
About RBAC

RBAC is a method that allows users to assign authority by role.

Since authorization isn't given directly to each user, but by a role basis, the access authority management is allocated by local access.



2.2 RBAC (Role Based Access Control) (3/4)



- Menu A · · · Only User 1 can maintain
- Menu B · · · All users can maintain
- Menu C···
 User 1 can maintain, user 2 and 3 can only spectate
- While user 1 has both the authorization "Can Maintain" and "Spectate Only", "Can Maintain" will be prioritized.

2.2 RBAC (Role Based Access Control) (4/4)

Description of the Menu groups inside "Management Console"

Menu group list

Multiple groups bundled.

Menu list

• A Menu is always attached to a menu group.

Role List

Role define access authority to Menus

User list

- A user can have multiple roles
- It is possible to link with Active Directory and acquire user information.

• Role/Menu link menu

Maintain each users access authority to menus

Role/User link menu

Maintain each users affiliation to other users.



2.3 Export/Import (1/2)

Workflow **Menu Group** Menu Management 2.1 **System Settings System settings** Console 2.2 **Menu Group list RBAC** (Role Based Access Control) Menu list Role list **User list** Role/Menu link list Role/User link list Export/ **Export/Import** 2.3 **Export** menu **Import Import menu Export/Import menu list**

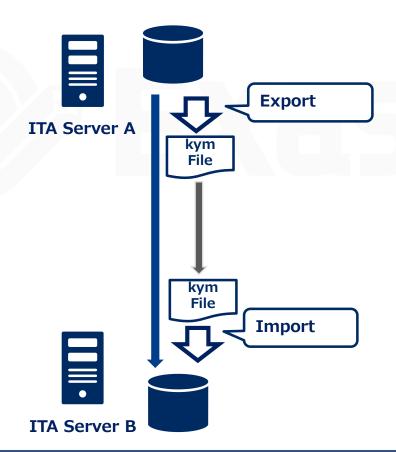
2.3 Export/Import (2/2)

Export/Import

Users can export and import menus registered in ITA.

For more information on how to operation method, please refer to the user manuals.

Attention Exporting and Importing in ITA will overwrite Menu units.



2.4 Device management in ITA (1/3)

Workflow **Menu Group** Menu **Basic Console Device management in ITA Device list Operation overview** 2.5 Input operation list **Movement list** Symphony 2.6 Symphony class definition Symphony interface information Symphony class list Symphony class edit **Symphony execution** Symphony execution 2.7 Symphony execution checking Symphony execution list

2.4 Device management in ITA (2/3)

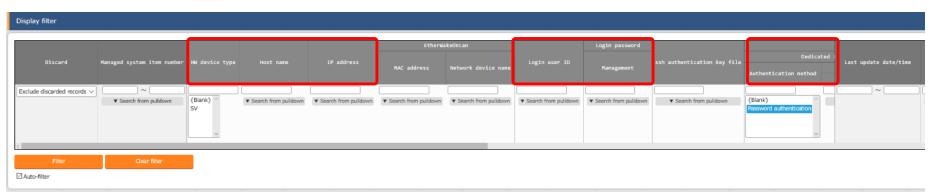
Device management in ITA (1)

In the "Basic Console">"Device list" menu, users can register the needed information for the targeted host.

Users can check authorization information settings per host.

For authentication, it is possible to choose from Password authentication and Key authentication.



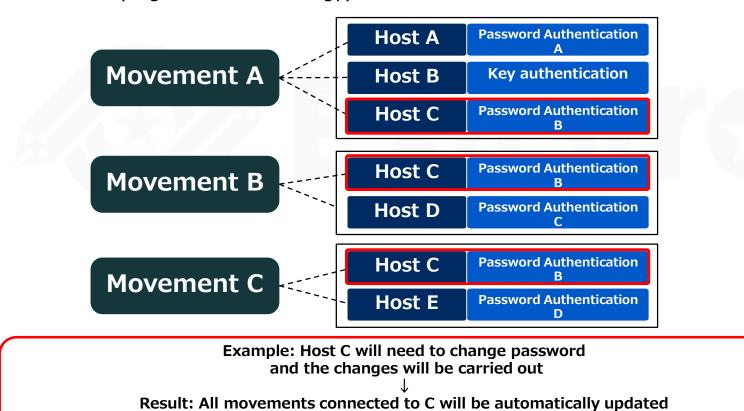


2.4 Device management in ITA (3/3)

Device management in ITA (2)

in ITA, users can increase the reusability of device information as well as being able to respond flexibly to setting information changes by managing the user information separately.

Movement (original ITA terminology) means a work unit.



to show the updated information

2.5 Operation overview (1/2)

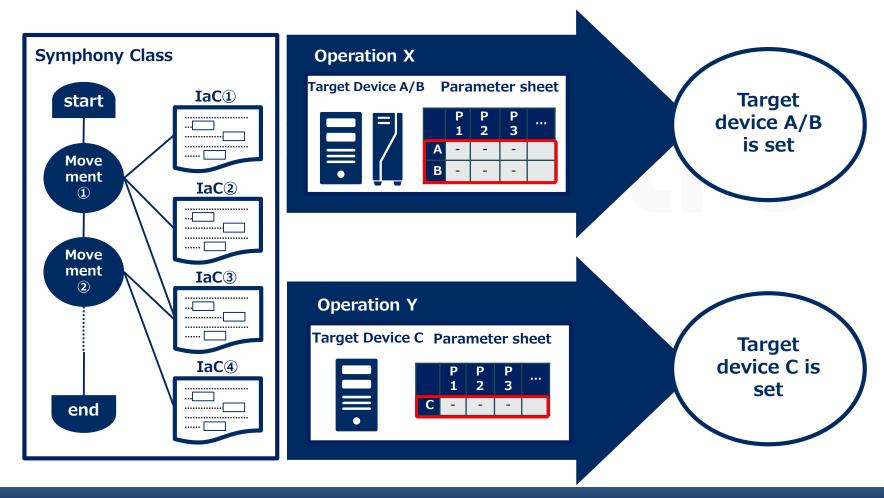
Workflow **Menu Group** Menu **Basic Console** Device management in ITA **Device list Operation overview Input operation list Movement list** Symphony 2.6 Symphony class definition Symphony interface information Symphony class list Symphony class edit **Symphony Execution** Symphony execution **Symphony Execution checking** Symphony Execution list

2.5 Operation overview (2/2)

About Operation

Operation is an execution unit in ITA.

It is possible to manage execution history and execution schedule.



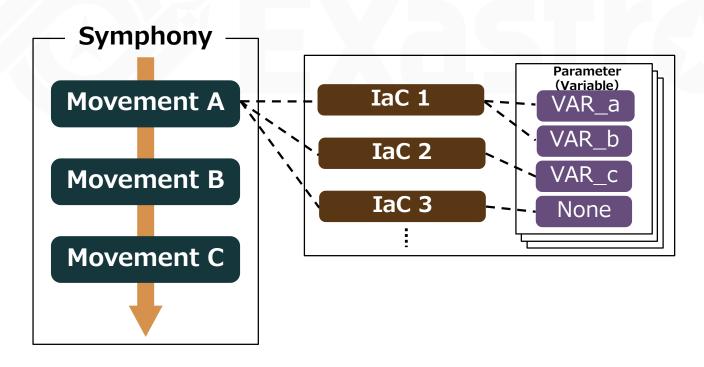
2.6 Symphony class definition (1/4)

Workflow **Menu Group** Menu **Basic Console Device management in ITA Device list** Operation overview 2.5 Input operation list Movement list **Symphony** 2.6 Symphony class definition Symphony interface information Symphony class list Symphony class edit **Symphony Execution Symphony Execution Symphony Execution checking** Symphony Execution list

2.6 Symphony class definition (2/4)

Workflow in ITA

- Symphony (XITA original terminology)
 - Combines work patterns called Movement and creates a workflow. Executes construction and settings operations..
- Movement (XITA original terminology)
 - Movement means a work unit.

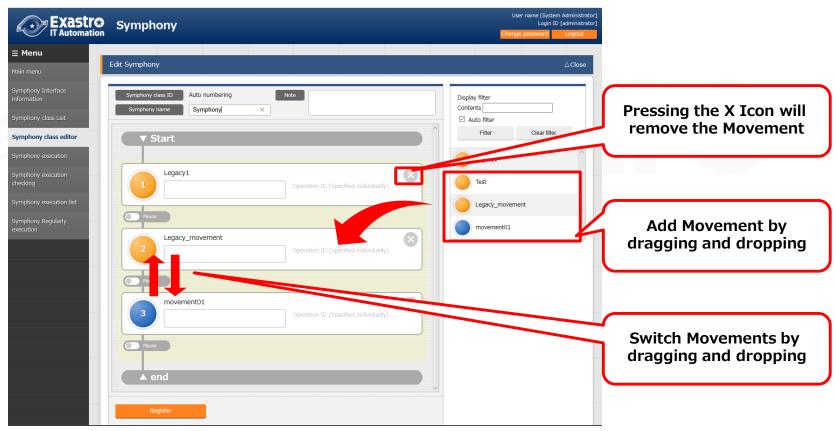


2.6 Symphony class definition (3/4)

Adding and removing Movement

Users can remove and add Movements in the Symphony > Symphony class edit menu screen.

"Symphony class editor" screen



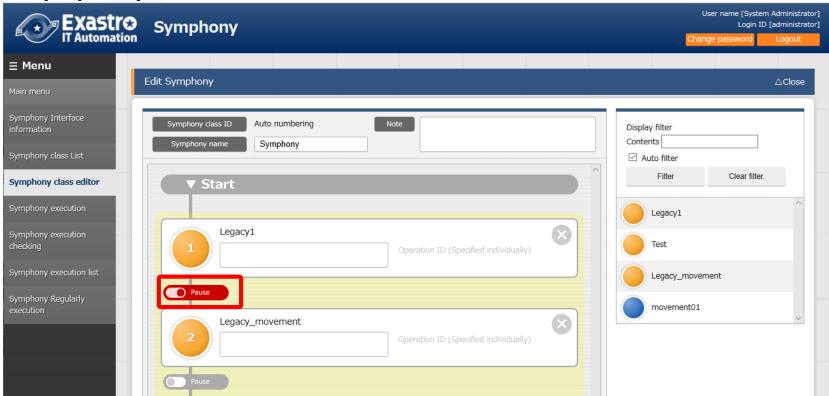
2.6 Symphony class definition (4/4)

About Pause settings

In the Symphony>Symphony class edit menu, users can press the pause button under the movement box.

Pressing it will pause any process after the movement.

"Symphony class editor" screen



2.7 Symphony Execution (1/8)

Workflow **Menu Group** Menu **Basic Console Device management in ITA Device list Operation overview** 2.5 Input operation list Movement list **Symphony** 2.6 **Symphony class** Symphony interface information definition Symphony class list Symphony class edit Symphony execution Symphony execution Symphony execution checkin **Symphony execution list**

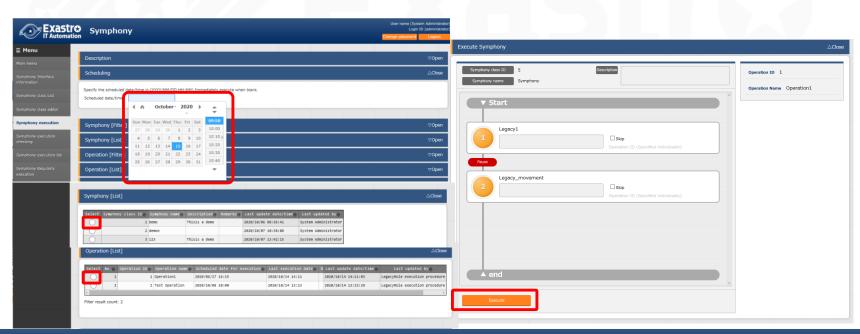
2.7 Symphony Execution (2/8)

Symphony Execution

In the Symphony>Symphony Execution menu, users can direct symphony executions.

Pressing the "Execution" button in Symphony "list", as well as Operation "list "sub menu will move the user to" Symphony Execution check" screen and start tracing. Users can reserve execution by entering time and date in the "Scheduling" field

" Symphony Execution "screen



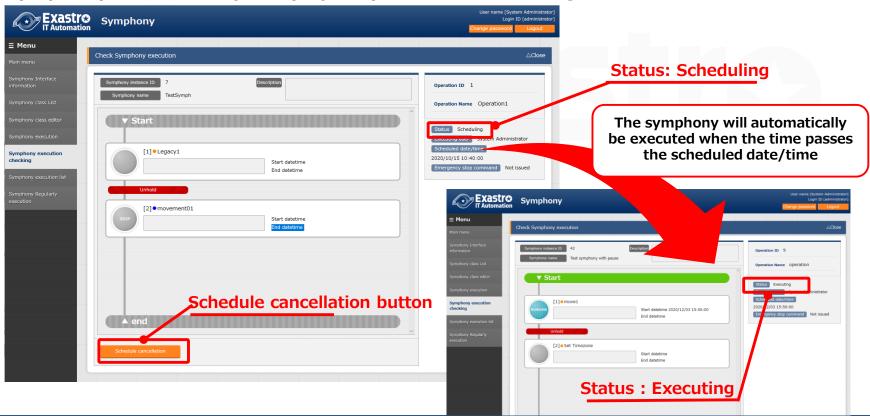
2.7 Symphony Execution (3/8)

About scheduling executions.

If scheduled, the Symphony will not be executed and the status will be changed to "Scheduling"

Choose "Schedule Cancellation" to cancel reservation.

"Symphony" Menu Group > "Symphony execution checking" Menu

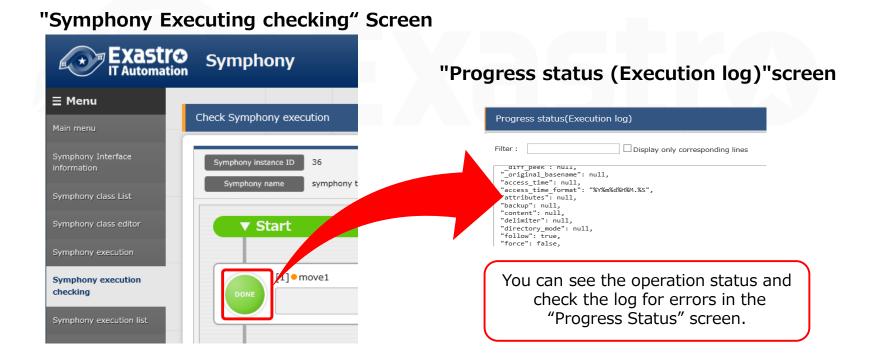


2.7 Symphony Execution (4/8)

Symphony Execution Checking

The Symphony execution state can be checked in the Symphony Execution checking menu.

Users can to press "Unhold" and "emergency stop" depending on the situation. Clicking "Movement" will move you to "Execution state confirmation" screen

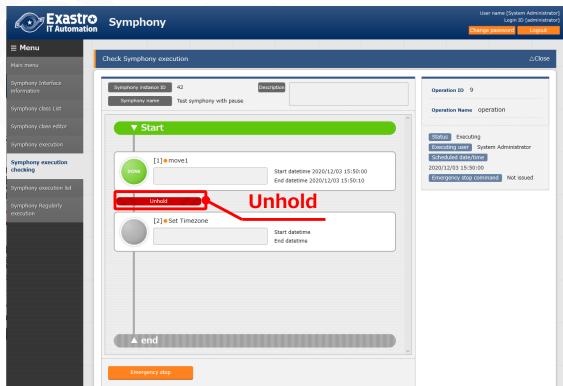


2.7 Symphony Execution (5/8)

About un-pausing

If the pause settings in the Symphony class edit menu is set to "active", the continuing process will be set to pause after the previous movement is completed. Press "cancel pause" to continue the movement.

"Symphony execution checking" screen when Symphony is paused

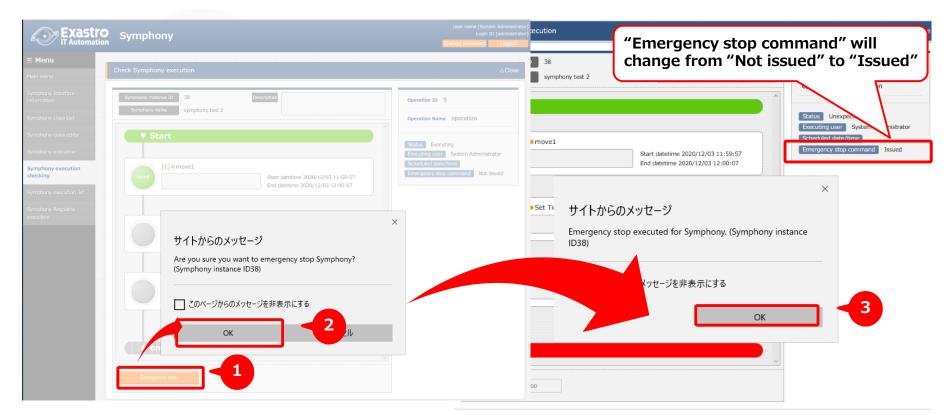


2.7 Symphony Execution (6/8)

About Emergency Stop (1)

In the Symphony>Symphony execution checking Menu, Users can stop the execution by pressing the "Emergency stop" button while the Symphony is executing.

- ① Press the Emergency stop button
- ② Press the OK on the pop-up window
- 3 Symphony emergency stop complete message will be displayed.

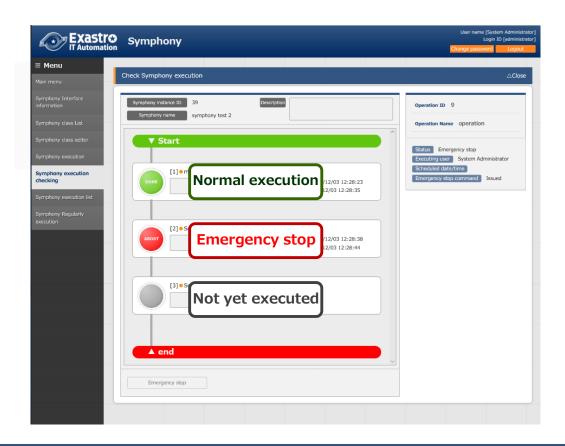


2.7 Symphony Execution (7/8)

About Emergency Stop (2)

In the Symphony>Symphony execution checking Menu, If an emergency stop happened during Movement ""Move02" execution, each movement status will be as shown below.

- "move01" (Normal execution)
- "move02" (Emergency stop)
- "move03" [Not yet executed]



2.7 Symphony Execution (8/8)

Symphony Execution list

The Symphony execution history list is displayed in the symphony execution list.

Pressing the "Details" button will move the user to "Symphony execution check" screen.

Users can check all the previous execution history.

"Symphony execution list" screen



