



**Exastro**

# **OASE** Operation Autonomy Support Engine **Base [Classroom]**

※In this document “Operation Autonomy Support Engine” will be written as “OASE.”

Exastro Operation Autonomy Support Engine Version 1.3.1  
Exastro developer

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# 1. Introduction



## 1.1 Base [Classroom] (1/3)

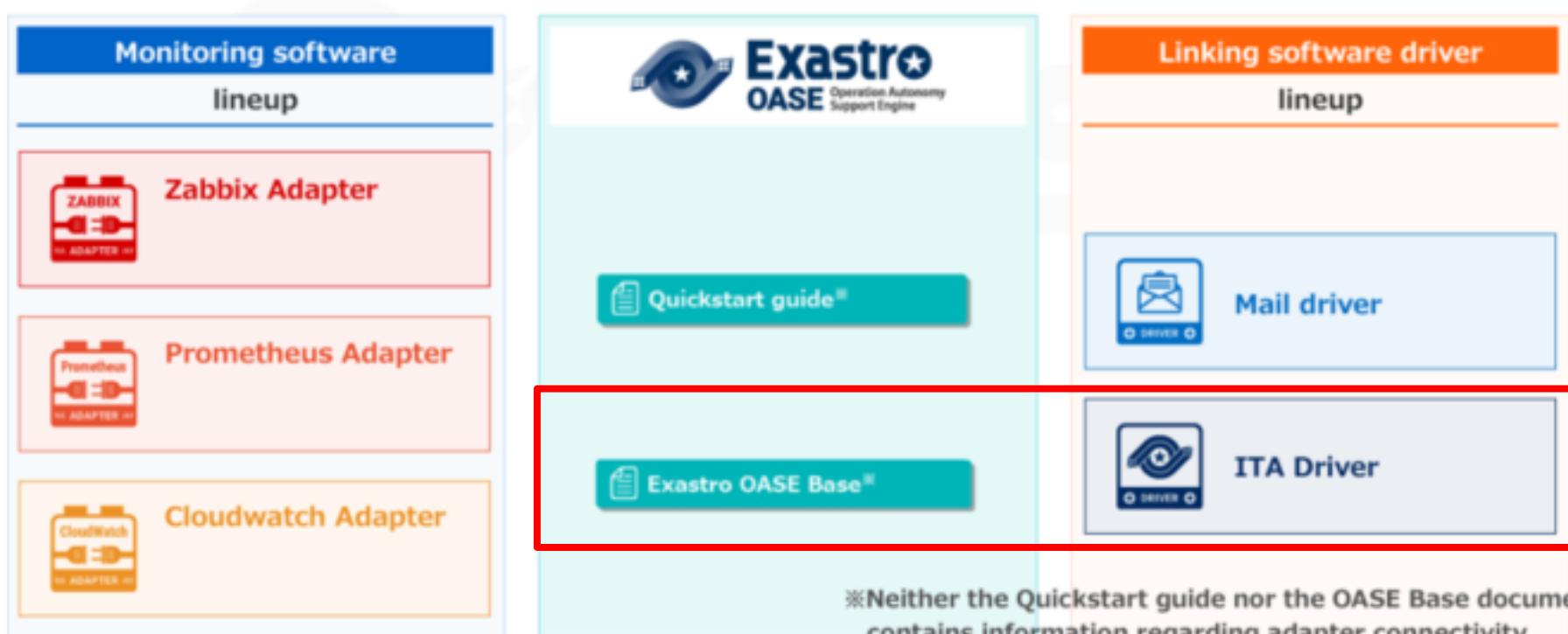
### Preface

- This document uses Exastro Operation Autonomy Support Engine (OASE) to help users better understand the software's basic functions.
- If you want to learn by getting some first-hand experience, we recommend that you see the Exastro OASE Base Practice document, which is a specific step to step guide on how to use it.
- For documents with more comprehensive information, please see the official Exastro OASE manual page, [OASE docs.](#)

## 1.1 Base [Classroom] (2/3)

This document will cover the following:

- Linking OASE and ITA Driver.

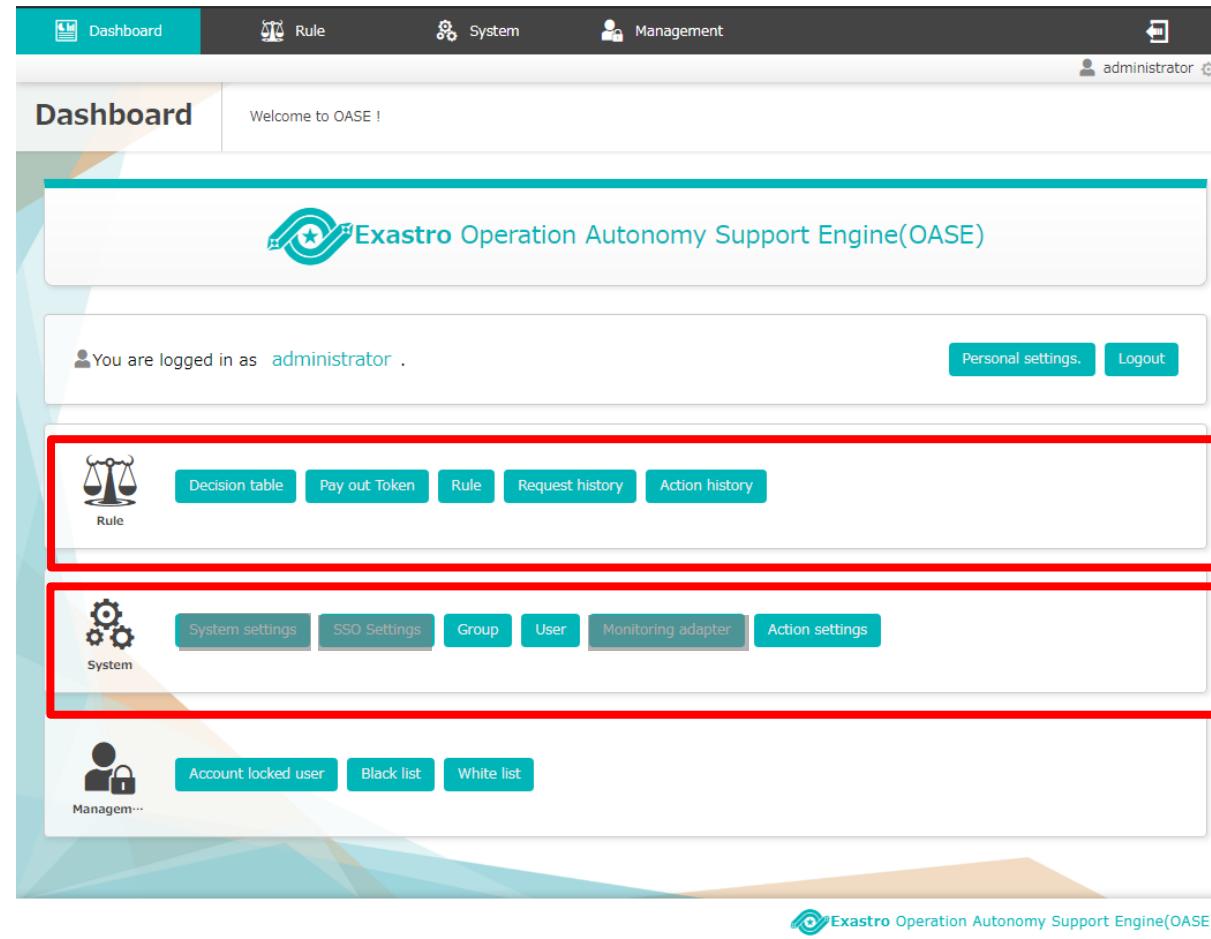


※In this document, "Exastro IT Automation" will be written as "ITA".

## 1.1 Base [Classroom] (3/3)

This guide will use the following OASE functions.

- Dashboard screen



### Category : Rule

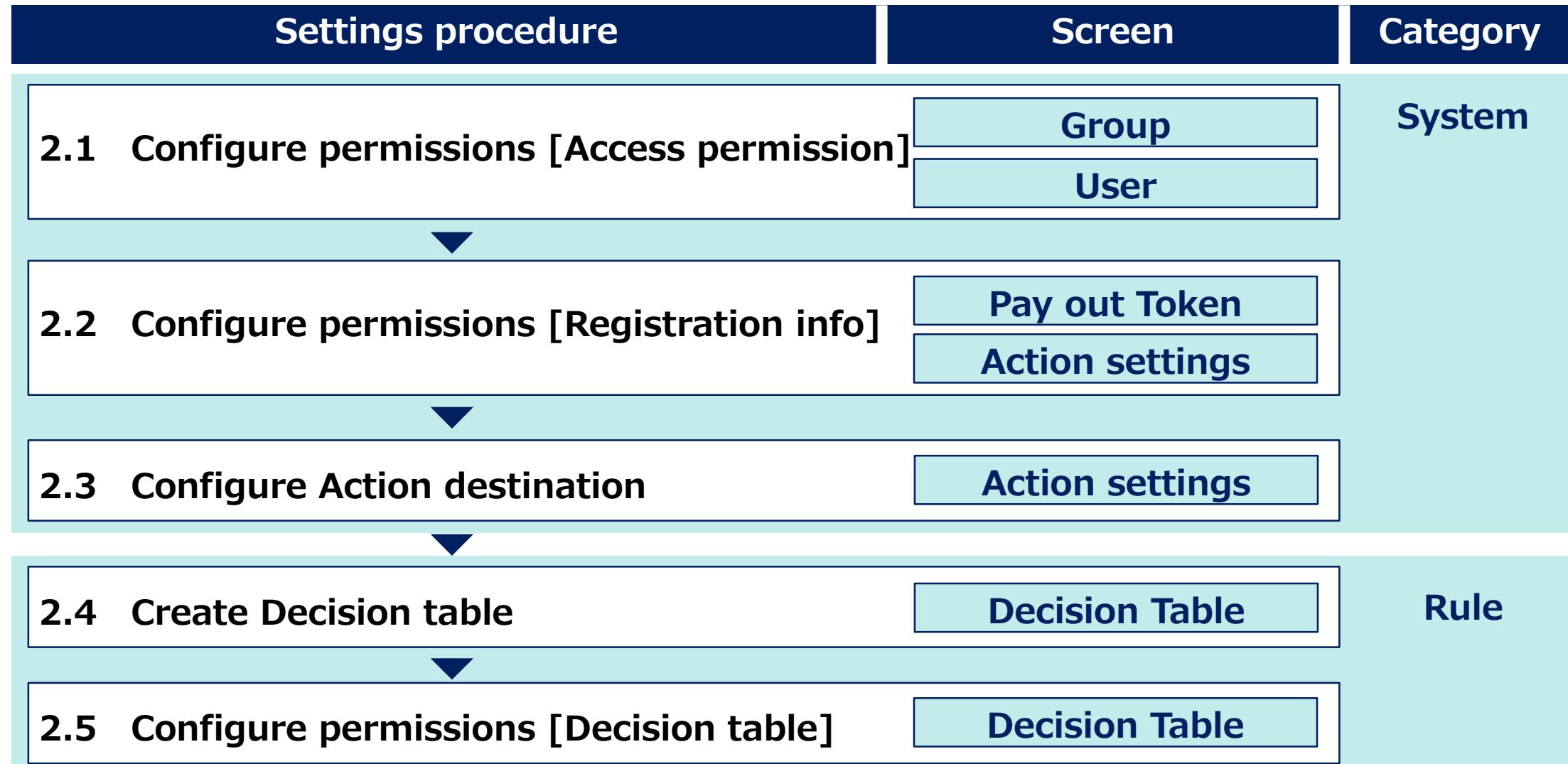
Screen
Decision table
Pay out Token
Rule
Request History
Action History

### Category : System

Screen
Group
User
Action settings

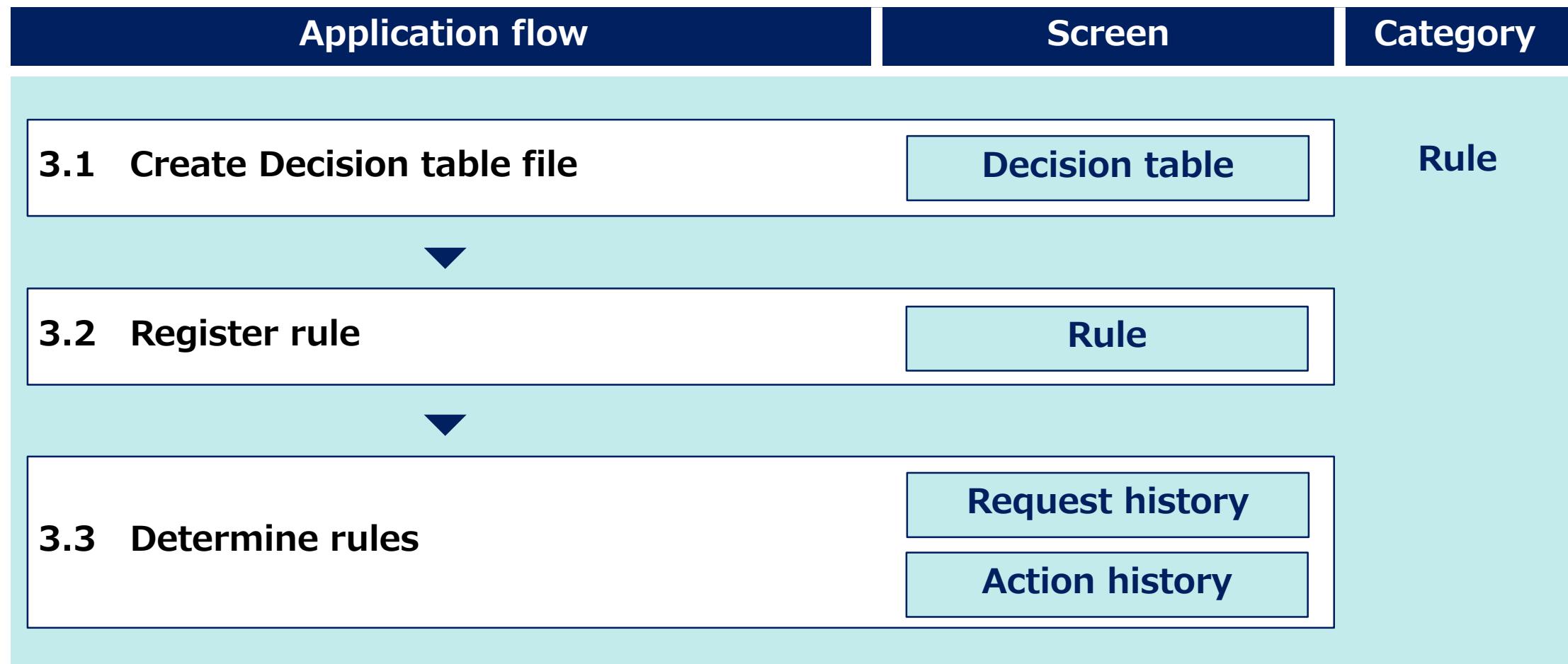
## 1.2 OASE Settings procedure

Initial settings and other tasks with low frequency



## 1.3 OASE Operation flow

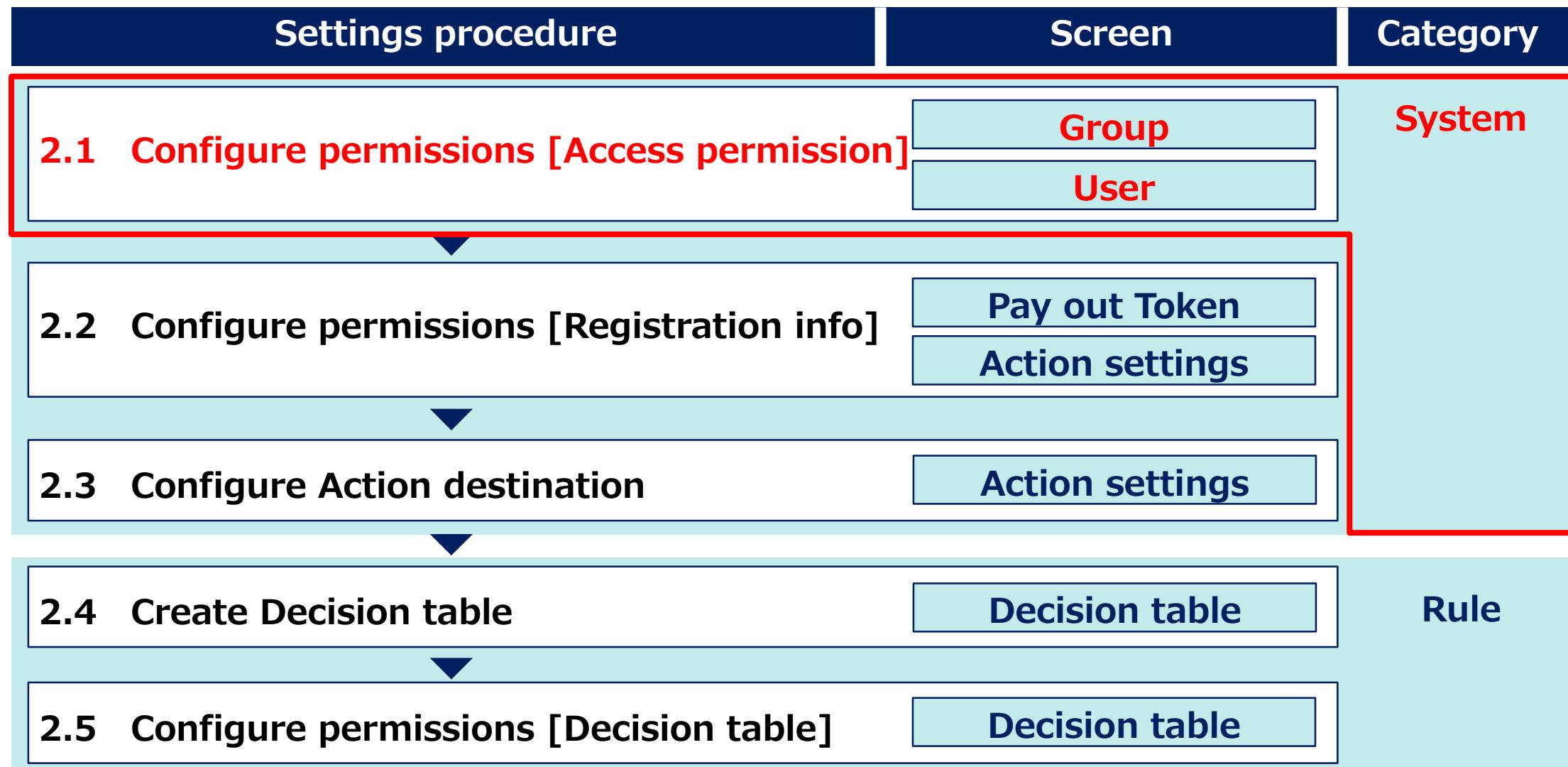
Tasks with high frequency in the application flow.



## 2. OASE Settings procedure screen explanation

## 2.1 Configure permissions [Access permission] (1/5)

This chapter will cover the part marked with red



## 2.1 Configure permissions [Access permission] (2/5)

### Assign access permission to groups

- You can configure access permission in the “group” screen
- Access permission for the following screens can be configured
  - Decision table
  - Pay out Token
  - System settings
  - SSO settings
  - Group
  - User
  - Action settings
- The following permissions are available.
  - No permission: Users will not be able to see the screen
  - Reference only : Users will not be able to update, but can see the screen
  - Can perform update: Users can both update and see the screen

+ Access permission

Setting permissions

Group name		group_A			
Overview		Test group for Learn Document			
Category	Screen	Function	<input checked="" type="radio"/> No permission	<input type="radio"/> Reference only	<input checked="" type="radio"/> Can perform update
Rule	Decision table	Register	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
	Pay out Token	—	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
System	System settings	—	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	SSO Settings	—	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Group	—	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	User	—	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	Action settings	—	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

X Cancel  Save

## 2.1 Configure permissions [Access permission] (3/5)

E.g.) Create "group\_A" and "user\_A" and set access permissions(1/3)

- ① Log in as "administrator" and create a group called "group\_A"
- ② Configure access permissions for group\_A

The screenshot shows the 'Group' configuration screen. A red box highlights the 'Group name' field where 'group\_A' is entered, with a red number '1' indicating the step for creating the group. To the right, a modal window titled '+ Access permission' displays the 'Setting permissions' table. The table has columns for Category, Screen, Function, and three permission levels: 'No permission' (green), 'Reference only' (yellow), and 'Can perform update' (blue). The 'Rule' category includes 'Decision table' and 'Pay out Token' with 'Can perform update'. The 'System' category includes 'System settings' and 'SSO Settings' with 'No permission'. The 'Group' category includes 'Group' and 'User' with 'Reference only'. The 'Action settings' category includes 'Action settings' with 'Reference only'. A red box highlights the entire table area.

② group\_A access permissions

Screen	Permission
Decision table	Can perform update
Pay out Token	Can perform update
System settings	No permission
SSO Settings	No permission
Group	Reference only
User	Reference only
Action settings	Reference only

## 2.1 Configure permissions [Access permission] (4/5)

E.g.) Create "group\_A" and "user\_A" and set access permissions(2/3)

- ③ Create a user called "user\_A" and put it in group\_A
- ④ Use the User ID and one-time-password included in the e-mail sent to you to log in to OASE.

The screenshot shows the OASE Management interface. On the left, there's a navigation bar with 'Dashboard', 'Rule', 'System', and 'Management'. Under 'Management', a 'User' section is displayed with a table. A red box highlights the last row of the table, which contains the new user 'user\_A' (Login ID: userA, Email address: a0001@example.com, Group: group\_A). A red callout bubble labeled '3 Create user\_A' points to this row. Another red box highlights the 'group\_A' entry in the 'Group' column. A red callout bubble labeled '4' points to a confirmation message in a separate window.

**3 Create user\_A**

User name	Login ID	Email address	Group	Last updated by	Created at
administrator	administrator	sample@xxx.bbb.ccc	administrator	administrator	Jun 20, 2023 10:00:00
user_A	userA	a0001@example.com	group_A	administrator	Jun 20, 2023 10:00:00

**A confirmation mail will be sent to the E-mail address.  
Make sure to register a mail address that can receive e-mails.**

**4**

The screenshot shows two overlapping windows. The top window is titled 'Login ID Notification - メッセージ (テキスト形式)' and the bottom window is titled 'Password notification - メッセージ (テキスト形式)'. Both windows show a message to a recipient with a redacted email address. The message content includes a welcome message, a note about a new user being created, instructions for logging in, and a one-time password. A red callout bubble labeled '4' points to the bottom window.

## 2.1 Configure permissions [Access permission] (5/5)

E.g.) Create "group\_A" and "user\_A" and set access permissions(3/3)

- Different access permission settings displays different screens. Please see below.

Group name		group_A		
Overview		Test group for Learn Document		
Category	Screen	Function	No permission	Reference only
Rule	Decision table	Register	<input type="radio"/>	<input type="radio"/>
	Pay out Token	—	<input type="radio"/>	<input checked="" type="radio"/>
	System settings	—	<input checked="" type="radio"/>	<input type="radio"/>
System	SSO Settings	—	<input checked="" type="radio"/>	<input type="radio"/>
	Group	—	<input type="radio"/>	<input checked="" type="radio"/>
	User	—	<input type="radio"/>	<input checked="" type="radio"/>
Action settings				

Group	
Permissions	Group name
	administrator
	SSODefaultGroup
	group_A
	group_B
	group_C

The user can only view  
(no update button)

Logged in as user\_A

This screenshot shows the 'Pay out Token' screen. A red box highlights the 'Can perform update' column for the 'Pay out Token' rule, which contains a blue dot. Another red box highlights the 'Can update' button in the top right corner of the screen.

This screenshot shows the 'Dashboard' screen. A red box highlights the 'Group' tab, which is labeled 'Group' and has a yellow dot in the 'Can perform update' column. Another red box highlights the 'Action settings' tab, which is labeled 'Action settings' and has a yellow dot in the 'Can perform update' column. A red dashed box highlights the 'System' tab, which is labeled 'System' and has a green dot in the 'Can perform update' column. A red arrow points from the 'Group' tab to the 'Action settings' tab, indicating they have update permissions. A red arrow points from the 'Action settings' tab to the 'System' tab, indicating it does not have update permissions.

"System settings" and "SSO settings" are not available

## 2.2 Permission settings [Registration info] (1/4)

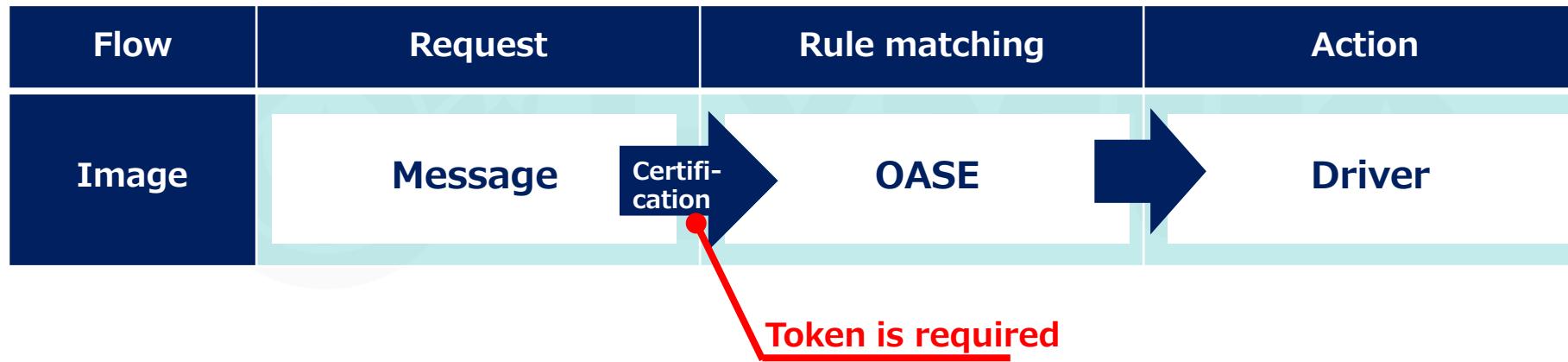
This chapter will cover the part marked with red

Settings procedure	Screen	Category
2.1 Configure permissions [Access permission]	Group User	System
2.2 Configure permissions [Registration info]	Pay out Token Action settings	
2.3 Configure Action destination	Action settings	
2.4 Create Decision table	Decision table	Rule
2.5 Configure permissions [Decision table]	Decision table	

## 2.2 Permission settings [Registration info] (2/4)

### "Pay out Token" screen

- As certification is needed when rule matching the messages received from the monitoring application, we will pay out a token from OASE in advance.

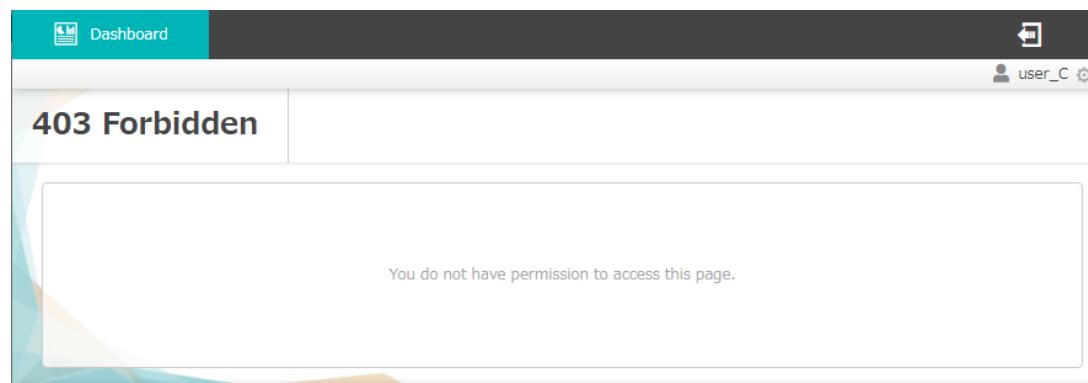


- A token will not be needed in the test request we will make in the latter mentioned "rule" screen chapter.
- If you want to see an example of a token being used, please see the document below.  
[< RestAPI function user manual 1 event request >](#)

## 2.2 Permission settings [Registration info] (3/4)

### Assign access permission to groups

- If an user has the "Can update" access permission, the user can register, update and delete information.
- Permission settings regarding registered information can be configured in both the "Action settings" and the "Pay out Token" screen.
- The following permissions are available
  - No permission : Will not be able to see any registered information
  - Reference only : Can see, but not update registered information
  - Can update : Can both see and update registered information
- If there are no items the user has permission to see, the following will be displayed.



+ ITA Driver ver1			
Set permissions			
group_A			
Permissions	No permission	Reference only	Can perform update
Register	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
group_B			
Permissions	No permission	Reference only	Can perform update
Register	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
group_C			
Permissions	No permission	Reference only	Can perform update
Register	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
group_D			
Permissions	No permission	Reference only	Can perform update
Register	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

## 2.2 Permission settings [Registration info] (4/4)

E.g.) Paying out a token when "group\_A" has permission while the other groups does not

- In this case, only users that belongs in "group\_A" can see, create and configure tokens.

[group\_A] [group\_B]  
[group\_C] [group\_D]  
**Pay out a token as users in group A,B,C and D**

**Pay out new token**

**Token information**

Token name *	Token_group_A
Expiration date	Expiration date (No expiration date if nothing is input)

**Group permissions**

Group name	No Permission	With Permission
group_A	<input type="radio"/>	<input checked="" type="radio"/>
group_B	<input checked="" type="radio"/>	<input type="radio"/>
group_C	<input checked="" type="radio"/>	<input type="radio"/>
group_D	<input checked="" type="radio"/>	<input type="radio"/>

**Cancel** **Pay out Token**

**Logged in as a user in group\_A**

**Pay out Token**

Control	Token name	Start date	End date	Last updated by	Last Modified date/time
	Token_group_A	2021, 08, 18, 18:13		master	2021, 08, 18, 18:13

**Can both see and update**

**Logged in as a user in group\_C**

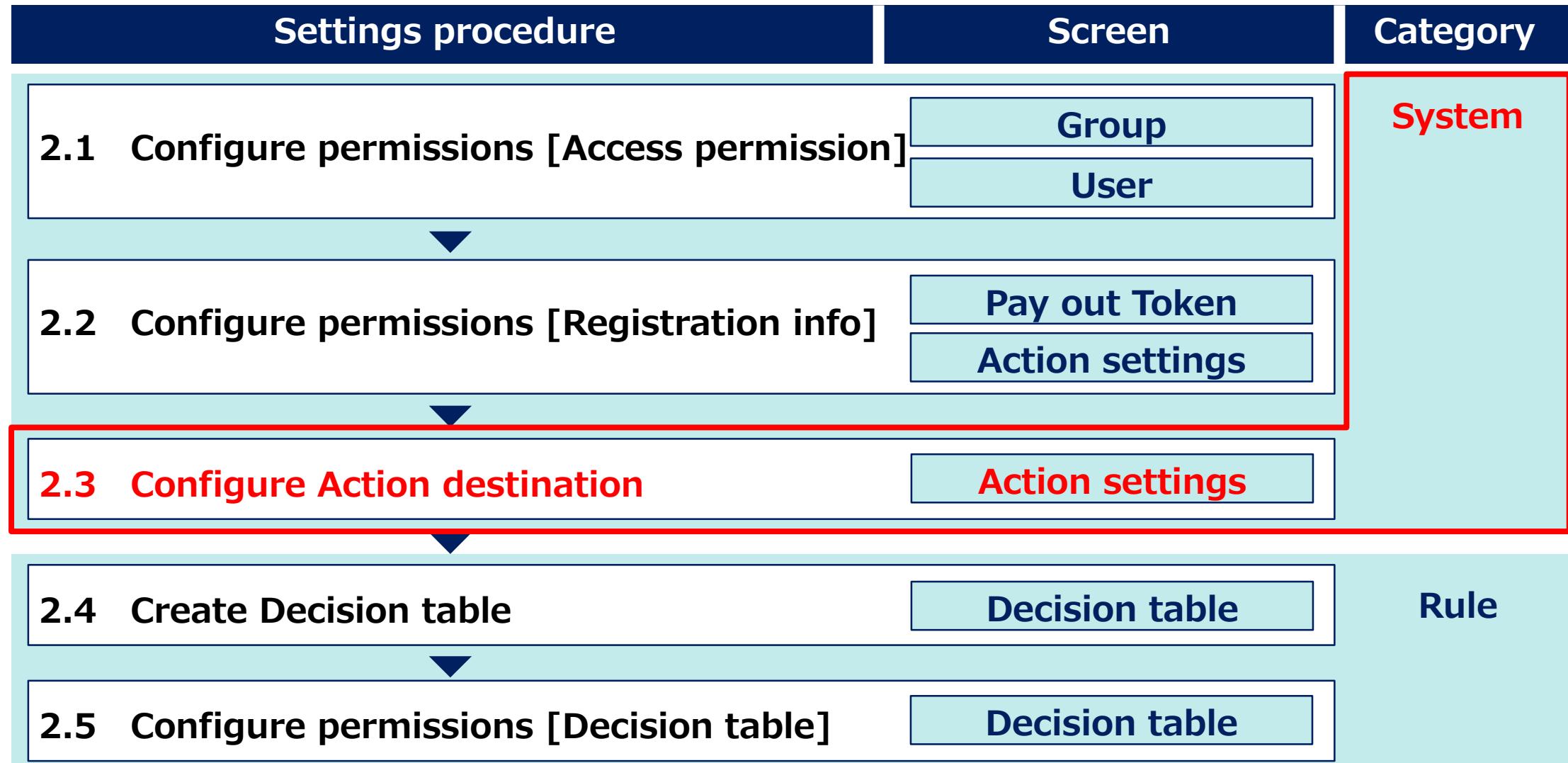
**403 Forbidden**

You do not have permission to access this page.

**Does not have permission to see**

## 2.3 Configure Action destination (1/4)

The following chapter will cover the part marked with red

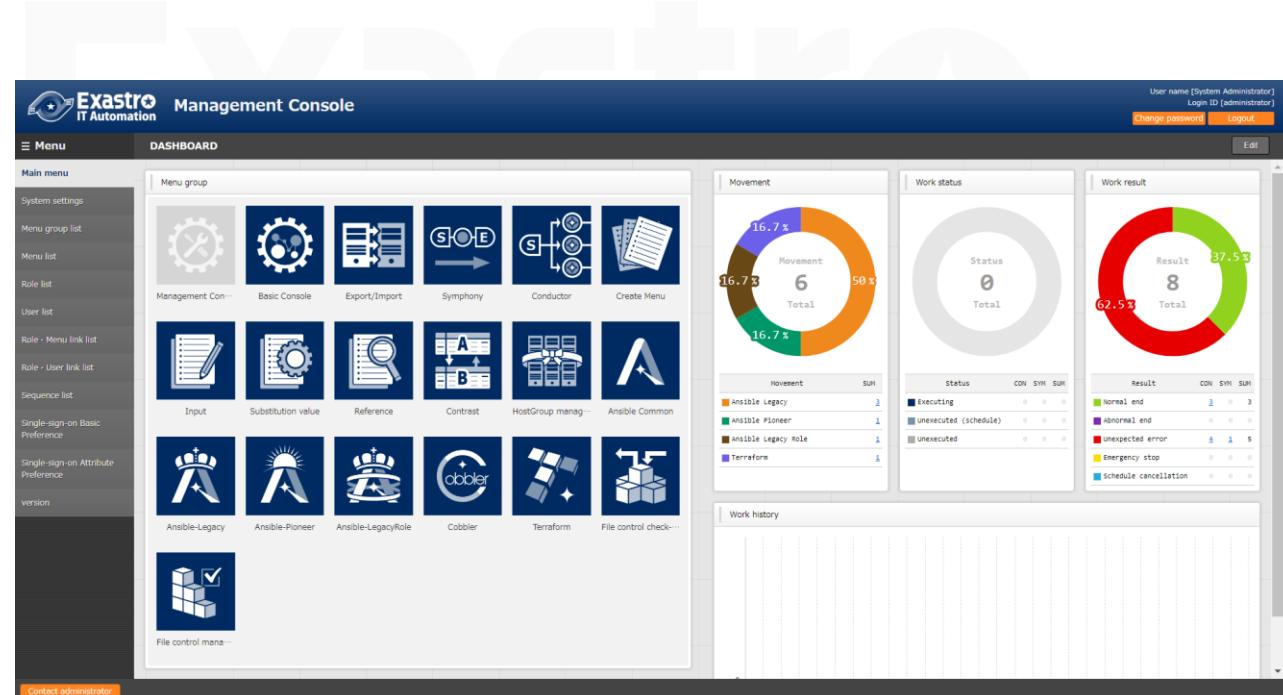
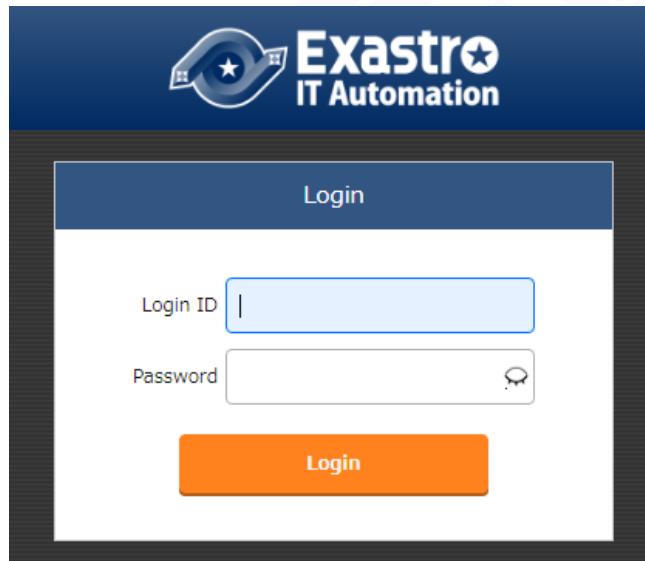


## 2.3 Configure Action destination (2/4)

### Check the ITA you want to link

- As we will use the ITA Driver in this document, we will first have to check that we have an ITA environment we can use.
  - If you don't have an ITA environment available to you, install it and check that you can log in to it
  - Please see the URL below for the ITA install manual

[<ITA Automation Online install>](#)



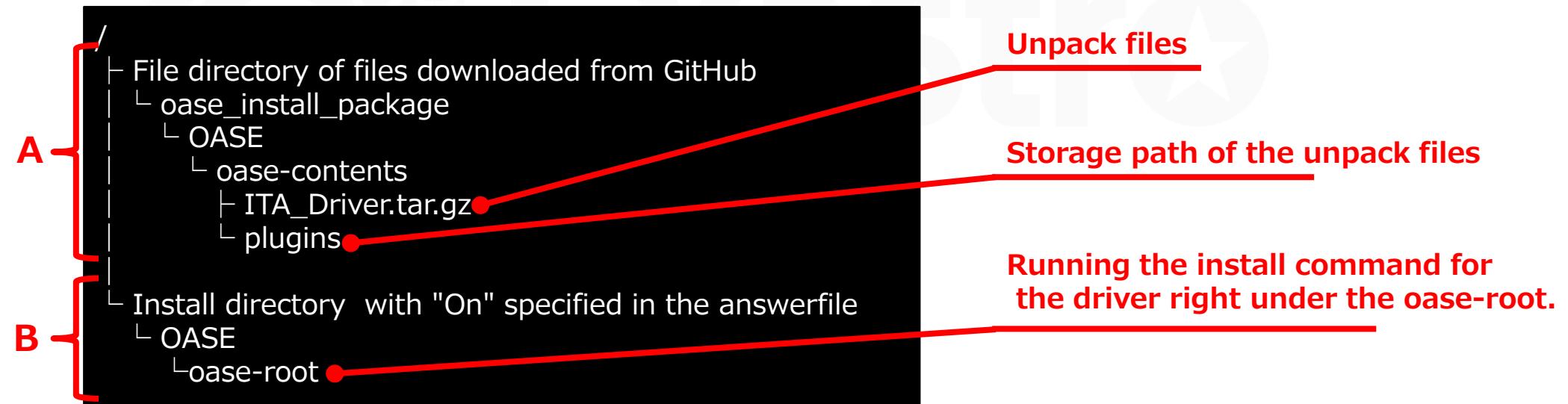
## 2.3 Configure Action destination (3/4)

### Implement the ITA driver as a software link driver

- Install ITA driver to OASE

- Unpack the files under the "oase-contents" in the installer you downloaded from GitHub
- Using the unpacked files, run the driver install command from the OASE side

※ Note that A and B are in different hierarchies.



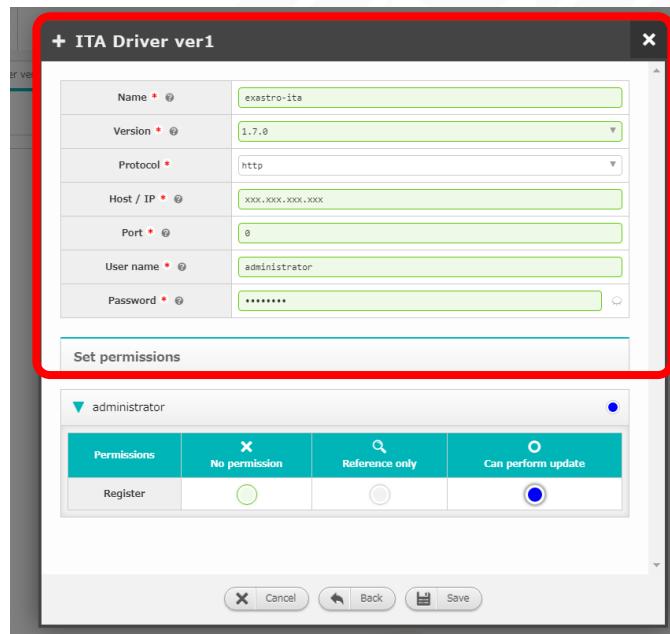
- For more information regarding installing drivers, please refer to <[Environment construction manual - driver install->](#)

## 2.3 Configure Action destination (4/4)

Register the information needed to link ITA Driver to OASE.

- Add the ITA driver as an action destination
  - Configure in the "Action settings" screen
  - Register the ITA information
    - E.g.) ITA Version, Host name/IP Address, Port, Login User name and Password etc.
    - ※ An easy connection test will take place when the user is saving the settings.

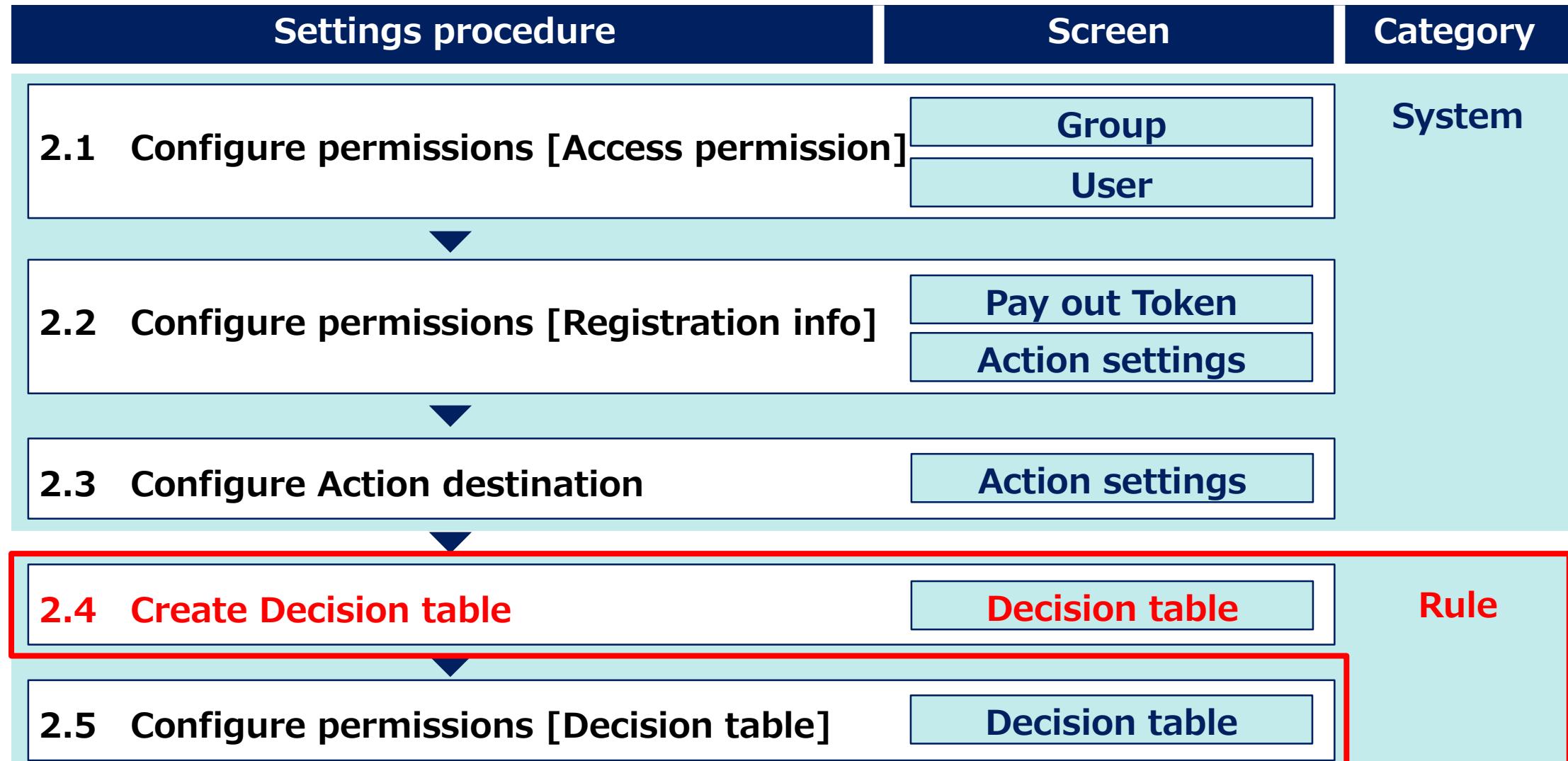
OASE "Action settings" screen.



Item name	Setting value
Name	ITA environment name
Version	ITA Version
Protocol	Protocol for when accessing ITA through API (http or https)
Host/IP	ITA Host name or IP Address
Port	ITA Port number when using API
User name	ITA Username when using API
Password	Password for the previously selected user

## 2.4 Create Decision table (1/6)

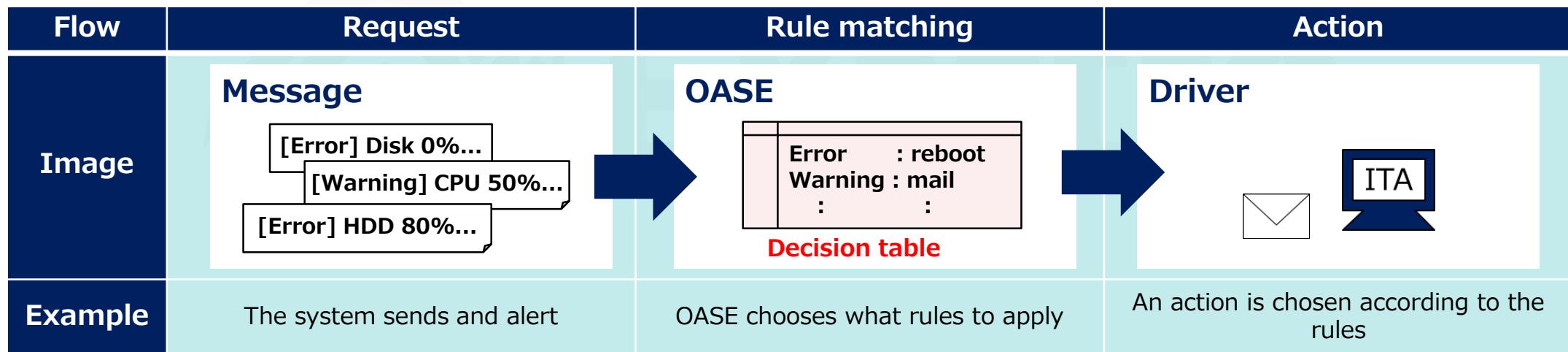
The following chapter will cover the part marked with red



## 2.4 Create Decision table (2/6)

### Decision table

- OASE includes Decision tables
  - Decision table : List of rules
  - Rule : Defined one line at a time in the Decision table
  - Rule engine : Makes decisions depending on the rules in the rule list.

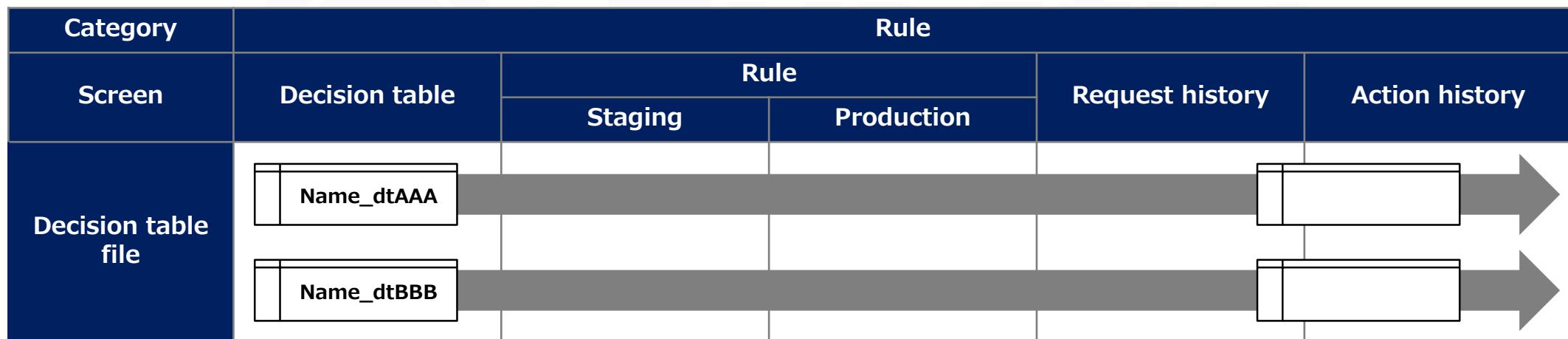


- The following rules are examples. Both of these rules can be defined in decision tables
  - If a message containing "HDD" with alert level "Error" is received, run action A.
  - If a message containing "CPU" with alert level "Warning" is received, run action B.

## 2.4 Create Decision table (3/6)

### Using the "Decision table" screen (1/3)

- In order to manage a decision table, you will need to register the following information
- "Basic information/permissions" tab
  - Decision table name
    - Register the name of the Decision table. This will be the name that will be displayed in OASE.
    - Make sure that you name it well, as the decision table name will be used multiple times.



- Set permissions
  - It is possible to configure permissions per group.  
(For more information, please see chapter "[Configure permissions \[Decision table\]](#)")

## 2.4 Create Decision table (4/6)

### Using the "Decision table" screen (2/3)

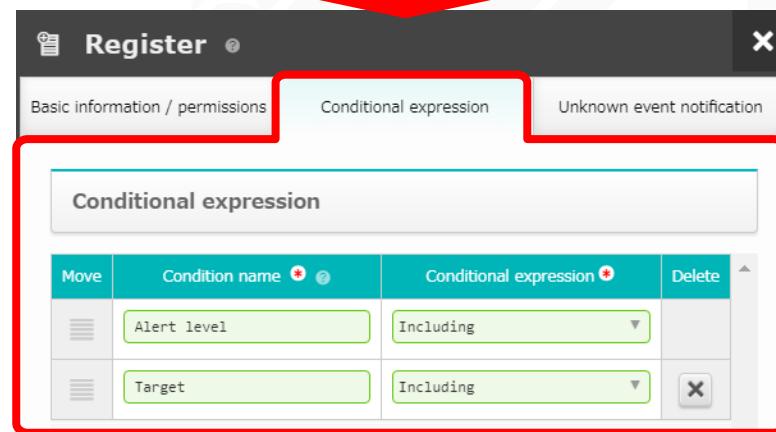
- “Conditional expression” tab

- Input Condition name and Conditional expression and create rule

- E.g.) **If a message containing "HDD" with alert level" Error" is received, run action A.**

We want to make this a condition in the rule

Configure in the "Conditional expression" tab in the decision table screen



The action that will be run after the rule matching is written in the "Decision table file".

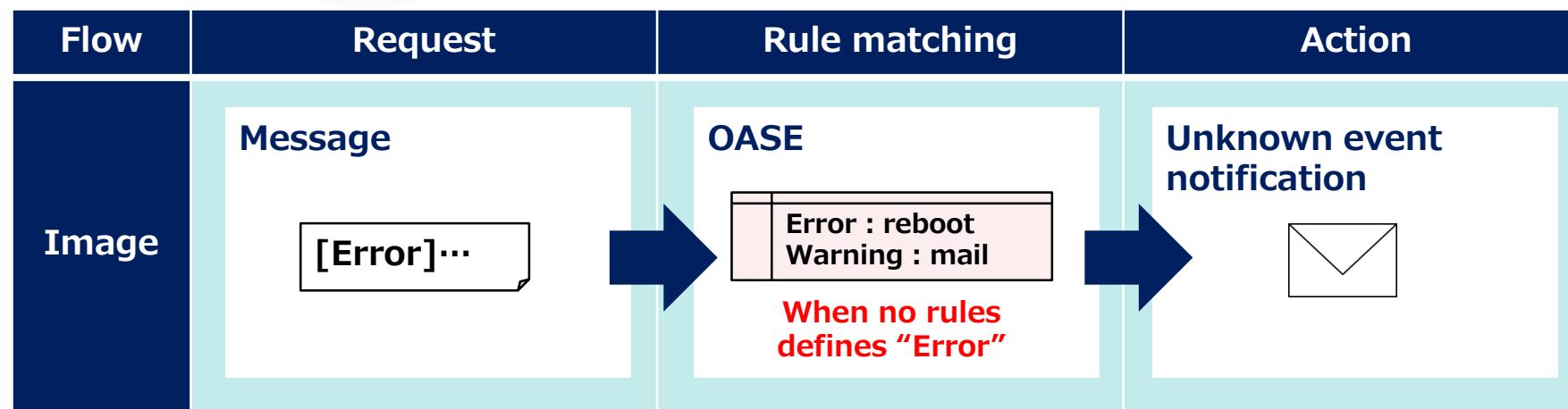
We will describe the condition messages (In this case, "Error" and "HDD" ) as a specific rule in the "Decision table file".

- Users can use test requests (explained later) in order to check if the Rule is valid or not

## 2.4 Create Decision table (5/6)

### Using the "Decision table" screen (3/3)

- “Unknown event notification” tab
  - If you select “Send me notification over e-mail”, an notification will be sent to you when an unknown event occurs.
- “Known” and “Unknown” events
  - Known events : Rule defined Events with defined actions.
  - Unknown events : Events that are not defined as Known events
- E.g.) When you have “Send notification over e-mail” and the system receives a message with “Error”, which is not defined by a rule.



## 2.4 Create Decision table (6/6)

### Caution

- The maximum amount of decision tables that can be created depends on the environment
- We recommend having around 4, and deleting any tables you don't need
- If you do happen to create more than the maximum amount allows, an error might occur
- If an error occurred, please refer to the manual below  
< [Environment construction manual - basics- 4. Cautions](#)>

operation	Decision table name	Last updated by	Last Modified date/time
	Test	administrator	2021, 07, 14, 17:44
	Test 2	administrator	2021, 07, 14, 18:36
	Test_decision	administrator	2021, 08, 18, 18:53

Moves the user to the "Decision table details" screen

**Detail of the decision table**

Basic information / permissions      Conditional expression      Unknown event notification

**Basic information**

Decision table name	Test
Overview	Test for Production Environment

**Permissions**

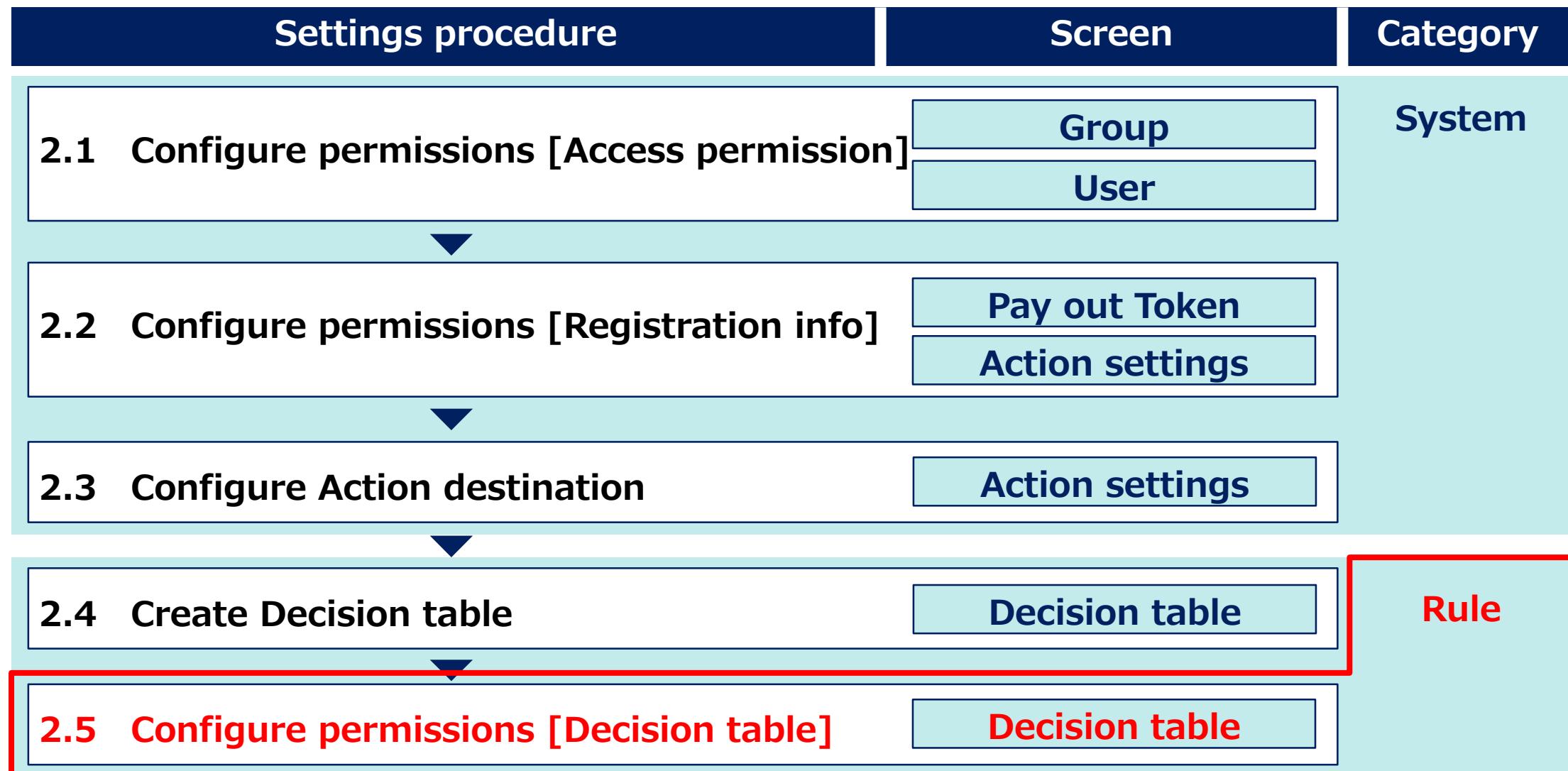
administrator	• • • • •
---------------	-----------

Copy   Delete   Edit   DL

Press the "Delete" button  
to delete the table

## 2.5 Configure permissions [Decision table] (1/12)

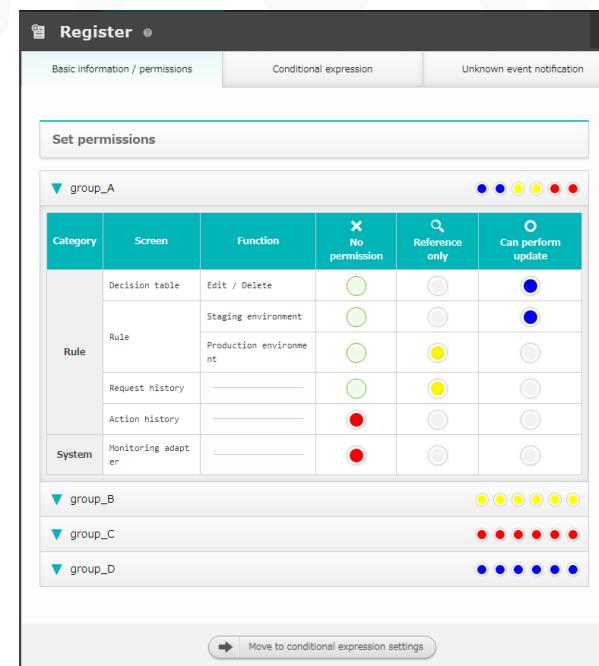
The following chapter will cover the part marked with red



## 2.5 Configure permissions [Decision table] (2/12)

It is possible to have access permissions set to decision tables

- The Decision table access permissions can be configured in the "Decision table" screen
- The following permissions are available
  - No permission : Will not be able to see the decision table
  - Reference only : Can see, but not update the decision table
  - Can update : Can both see and update the decision table



## 2.5 Configure permissions [Decision table] (3/12)

E.g.) Checking the decision table and related contents as users with different permissions (1/10)

- ① In order to create conditional expressions, we need to access somewhere we don't have permission to. Therefore, you need to first log in as the system administrator and create group\_A, group\_B, group\_C and group\_D. After that, we need to configure the permissions so that all of the groups can update.

**Log in as “administrator” and start configuring.**

The screenshot shows the application's main navigation bar with tabs for Dashboard, Rule, System, and Management. The Management tab is active, displaying a table of groups. A red box highlights the rows for group\_A, group\_B, group\_C, and group\_D, which were created by the administrator. The 'Edit' button for group\_A is also highlighted. To the right, four separate windows titled '+ Access permission' are shown for each group. Each window has a red box highlighting the 'Access permission' section, which contains several radio buttons for selecting update permissions. Red circles with labels 'group\_A', 'group\_B', 'group\_C', and 'group\_D' point to their respective windows.

Group name	Description	Last updated by	Last Modified
administrator	All rights reserved for system administration.	administrator	July 1, 2019, midnight
SSODefaultGroup	Group automatically assigned to SSO users upon their first login.	administrator	July 1, 2019, midnight
group_A	Test group for Learn Document	administrator	Aug. 18, 2021, 5:45 p.m.
group_B	Test group for Learn Document	administrator	Aug. 12, 2021, 1:50 p.m.
group_C	Test group for Learn Document	administrator	Aug. 12, 2021, 1:50 p.m.
group_D	Test group for Learn Document	administrator	Aug. 18, 2021, 5:51 p.m.

**+ Access permission**

Category	Screen	Function	Access permission
Rule	Decision table	Register	<input type="radio"/> Can perform update <input type="radio"/> Can perform update
System	SSO Settings		
Group			
User			
Action settings			

**+ Access permission**

Category	Screen	Function	Access permission
Rule	Decision table	Register	<input type="radio"/> Can perform update <input type="radio"/> Can perform update
System	SSO Settings		
Group			
User			
Action settings			

**+ Access permission**

Category	Screen	Function	Access permission
Rule	Decision table	Register	<input type="radio"/> Can perform update <input type="radio"/> Can perform update
System	SSO Settings		
Group			
User			
Action settings			

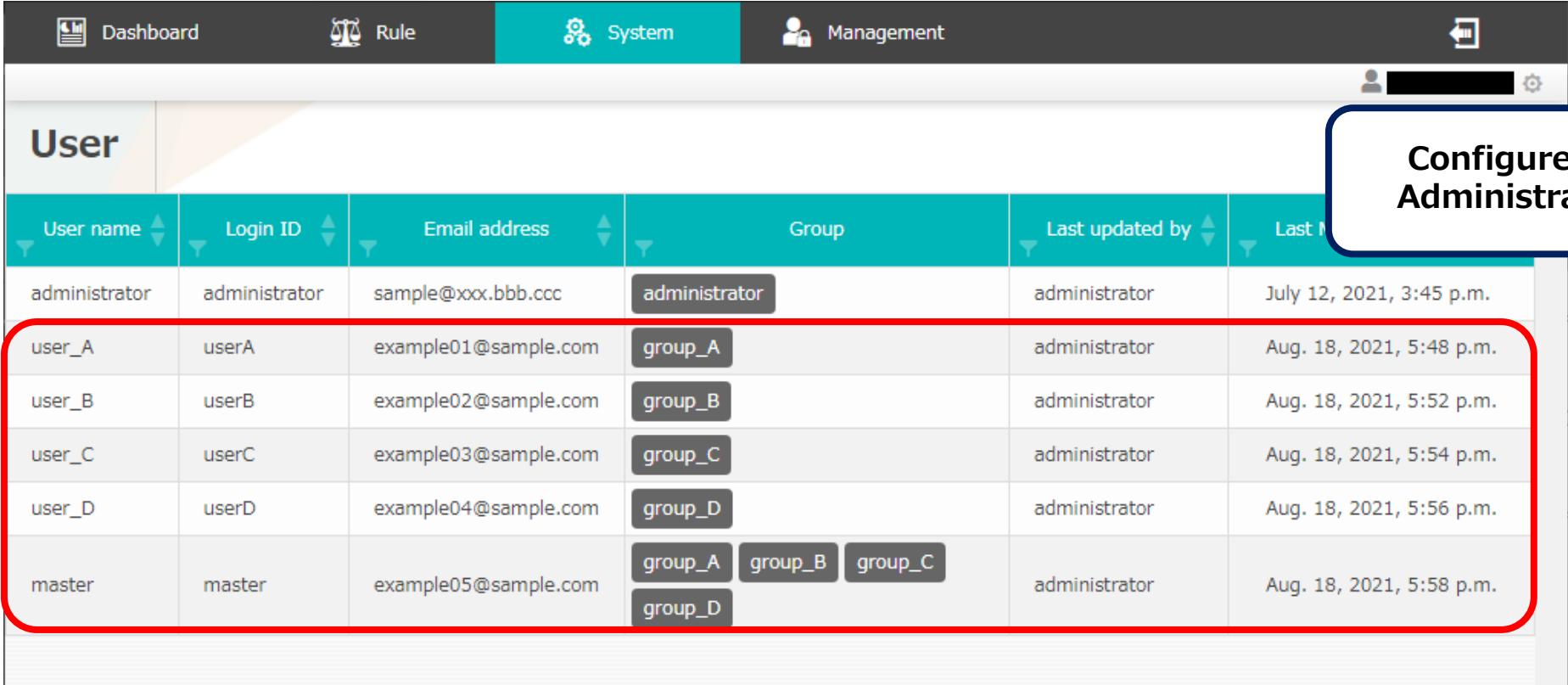
**+ Access permission**

Category	Screen	Function	Access permission
Rule	Decision table	Register	<input type="radio"/> Can perform update <input type="radio"/> Can perform update
System	SSO Settings		
Group			
User			
Action settings			

## 2.5 Configure permissions [Decision table] (4/12)

E.g.) Checking the decision table and related contents as users with different permissions (2/10)

- ② Go to the “User” screen and create the following users: user\_A, user\_B, user\_C, user\_D and master
- ③ Configure the users so that user\_A belongs in group\_A, user\_B belongs in group\_B, user\_C belongs in group\_C and user\_D belongs in group\_D. The “master” user belongs to all of the groups.



The screenshot shows a user management interface with the following data:

User name	Login ID	Email address	Group	Last updated by	Last N
administrator	administrator	sample@xxx.bbb.ccc	administrator	administrator	July 12, 2021, 3:45 p.m.
user_A	userA	example01@sample.com	group_A	administrator	Aug. 18, 2021, 5:48 p.m.
user_B	userB	example02@sample.com	group_B	administrator	Aug. 18, 2021, 5:52 p.m.
user_C	userC	example03@sample.com	group_C	administrator	Aug. 18, 2021, 5:54 p.m.
user_D	userD	example04@sample.com	group_D	administrator	Aug. 18, 2021, 5:56 p.m.
master	master	example05@sample.com	group_A group_B group_C group_D	administrator	Aug. 18, 2021, 5:58 p.m.

## 2.5 Configure permissions [Decision table] (5/12)

E.g.) Checking the decision table and related contents as users with different permissions (3/10)

- ④ Log in as the user "master" and go to the Decision table screen.

Create a decision table with the name "master\_decision\_table" and give the following permissions to each of the groups.

Category	Screen	Function	No permission	Reference only	Can perform update
Rule	Decision table	Edit / Delete	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		Staging environment	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		Production environment	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Request history	-----	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
	-----	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
System	Action history	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Monitoring adapter	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	

group\_A  
Can perform update : Decision table, Rule (Staging)  
Reference only : Rule (Production) , Request history  
No permission : Action history, Monitoring adapter

group\_B "Reference only" for everything

group\_C "No permission" for everything

group\_D "Can perform update" for everything

Log in as  
"master" and  
configure

## 2.5 Configure permissions [Decision table] (6/12)

E.g.) Checking the decision table and related contents as users with different permissions (4/10)

- The “master\_decision\_table” access permissions are as follows

User	Screen	Decision table	Rule		Request history	Action history	Monitoring adapter
			Staging	Production			
①	master	Can create, duplicate, delete, edit and download	Can upload and send test requests	Apply button is active. Can apply	Can view	Can control and view	Can view
②	user_A	Can create, duplicate, delete, edit and download	Can upload and send test requests	No apply button. Can't apply	Can view	Can't view	Can't view
③	user_B	Can create, duplicate, delete, edit and download	Can't upload, but can send test requests	No apply button. Can't apply	Can view	Can view	Can't view
④	user_C				Can't view		
⑤	user_D	Can create, duplicate, delete, edit and download	Can upload and send test requests	Apply button is active. Can apply	Can view	Can control and view	Can view
⑥	Admin				Can't view		

## 2.5 Configure permissions [Decision table] (7/12)

E.g.) Checking the decision table and related contents as users with different permissions (5/10)

- The following screen will be displayed if the user is logged in as "master"

User	Decision table	Rule	Request history	Action history	Monitor adapter
		Staging      Production			
① master	Can create, duplicate, delete, edit and download	Can upload and send test requests Apply button is active. Can apply	Can view	Can control and view	Can view

The screenshot displays several user interface elements:

- Detail of the decision table:** A modal window showing basic information and permissions. Permissions are assigned to four groups (A, B, C, D) with varying levels of access. A red box highlights the "Edit" button at the bottom.
- Rules applying to Staging environment:** A list of rules with a "Test request" button highlighted by a red box.
- Rules applying to Production environment:** A list of rules with a "Display including history" toggle highlighted by a red box.
- Request history:** A list of recent requests, with a "Select files" button highlighted by a red box.
- Action history:** A list of actions taken, with a "Save" button highlighted by a red box.
- ZABBIX Adapter ver1:** A configuration dialog for a monitor adapter. It shows fields for Name, Protocol, Host / IP, Port, User name, and Password. A red box highlights the "Decision table name selection" dropdown and the "Matching information" section.

## 2.5 Configure permissions [Decision table] (8/12)

E.g.) Checking the decision table and related contents as users with different permissions (6/10)

- The following screen will be displayed if the user is logged in as "user\_A"

User	Screen	Decision table	Rule	Request history	Action history	Monitoring adapter
			Staging	Production		
② user_A		Can create, duplicate, delete, edit and download	Can upload and send test requests	No apply button. Can't apply	Can view	Can't view

The screenshot displays several user interface components illustrating user permissions:

- Detail of the decision table:** Shows basic information and permissions. The "Permissions" section indicates "group\_A" has full control (red box). The bottom toolbar includes "Copy", "Delete", "Edit", and "Apply" buttons, with "Apply" highlighted (red box).
- Rules applying to Staging environment:** Shows a table with one item. The "operation" column shows a blue icon (red box). The "Last updated by" column shows "master".
- Rules applying to Production environment:** Shows a table with one item. The "operation" column shows a blue icon (red box). The "Last updated by" column shows "master".
- Request history:** Shows two entries for the "master\_decision\_table" decision table.
- Action history:** Shows no action history.
- ZABBIX Adapter ver1 configuration:** A modal dialog for adding a Zabbix adapter. The "Decision table name selection" field is empty and highlighted with a red box. The "Matching information" field below it contains the placeholder "Please select a decision table name".

## 2.5 Configure permissions [Decision table] (9/12)

E.g.) Checking the decision table and related contents as users with different permissions (7/10)

- The following screen will be displayed if the user is logged in as "user\_B"

User	Screen	Decision table	Rule	Request history	Action history	Monitoring adapter	
			Staging	Production			
③ user_B		Can create, duplicate, delete, edit and download	Can't upload, but can send test requests	No apply button. Can't apply	Can view	Can view	Can't view

The screenshot displays four interface windows for user\_B:

- Detail of the decision table:** Shows basic information (Decision table name: master\_decision\_table) and permissions (group\_B). A red box highlights the bottom toolbar buttons: Copy, Delete, Edit, and DL.
- Rules applying to Staging environment:** Shows a table with one item: master\_decision\_table (Status: Verification completed). A red box highlights the top toolbar buttons: Test request, Display including history, and a search bar.
- Request history:** Shows a table with two items: master\_decision\_table (Status: Staging environment) and master\_decision\_table (Status: Staging environment).
- Action history:** Shows a table with three items: master\_decision\_table (Status: master), group\_A\_B (Status: master), and group\_A\_B (Status: master).
- ZABBIX Adapter ver1 configuration:** A configuration dialog with fields: Name (test), Protocol (http), Host / IP (xxx.xxx.xxxx), Port (80), User name (name), Password (xxxxxx), and Decision table name selection (highlighted with a red box). A matching information message at the bottom says "Please select a decision table name".

## 2.5 Configure permissions [Decision table] (10/12)

E.g.) Checking the decision table and related contents as users with different permissions (8/10)

- The following screen will be displayed if the user is logged in as "user\_C"

User	Screen	Decision table	Rule	Request history	Action history	Monitoring adapter
			Staging      Production			
④	user_C			Can't view		

The screenshot displays the OASE interface with several windows open, illustrating user permissions:

- Top Left Window (user\_C):** Shows the "Decision table" tab. A message says "The decision table does not exist. If you have permission, you can create a decision table by clicking [Register]."
- Top Center Window (administrator):** Shows the "Rule" section with tabs for "Staging" and "Production". Both sections show "There is no target data."
- Top Right Window (user\_D):** Shows the "Request history" and "Action history" sections, both displaying "There is no action history".
- Bottom Right Window (ZABBIX Adapter ver1):** A configuration dialog with fields for Name (test), Protocol (http), Host / IP (xxx,xxx,xxx,xxx), Port (80), User name (name), and Password. The "Decision table name selection" field is highlighted with a red box.

## 2.5 Configure permissions [Decision table] (11/12)

E.g.) Checking the decision table and related contents as users with different permissions (9/10)

- The following screen will be displayed if the user is logged in as "user\_D"

User	Screen	Decision table	Rule	Request history	Action history	Monitoring adapter
			Staging	Production		
⑤ user_D	Can create, duplicate, delete, edit and download	Can upload and send test requests	Apply button is active. Can apply	Can view	Can control and view	Can view

The screenshot displays four main windows from the OAISE interface:

- Detail of the decision table**: Shows basic information and permissions. A red box highlights the bottom navigation bar with buttons: Copy, Delete, Edit, and DL.
- Rules applying to Staging environment**: Shows a table with columns: operation, Decision table name, Rule files, Application status, Working status, Last updated by, and Last Modified date. A red box highlights the top header area.
- Rules applying to Production environment**: Similar to the Staging rules window, showing application status applied to Production environment.
- ZABBIX Adapter ver1**: A configuration dialog for a Zabbix adapter. It includes fields for Name, Protocol, Host / IP, Port, User name, Password, and a section for Decision table name selection (master\_decision\_table). A red box highlights the entire dialog.

## 2.5 Configure permissions [Decision table] (12/12)

E.g.) Checking the decision table and related contents as users with different permissions (10/10)

- The following screen will be displayed if the user is logged in as "administrator"

Screen	Decision table	Rule		Request history	Action history	Monitoring adapter
User		Staging	Production			
⑥ Admin		Can't view				

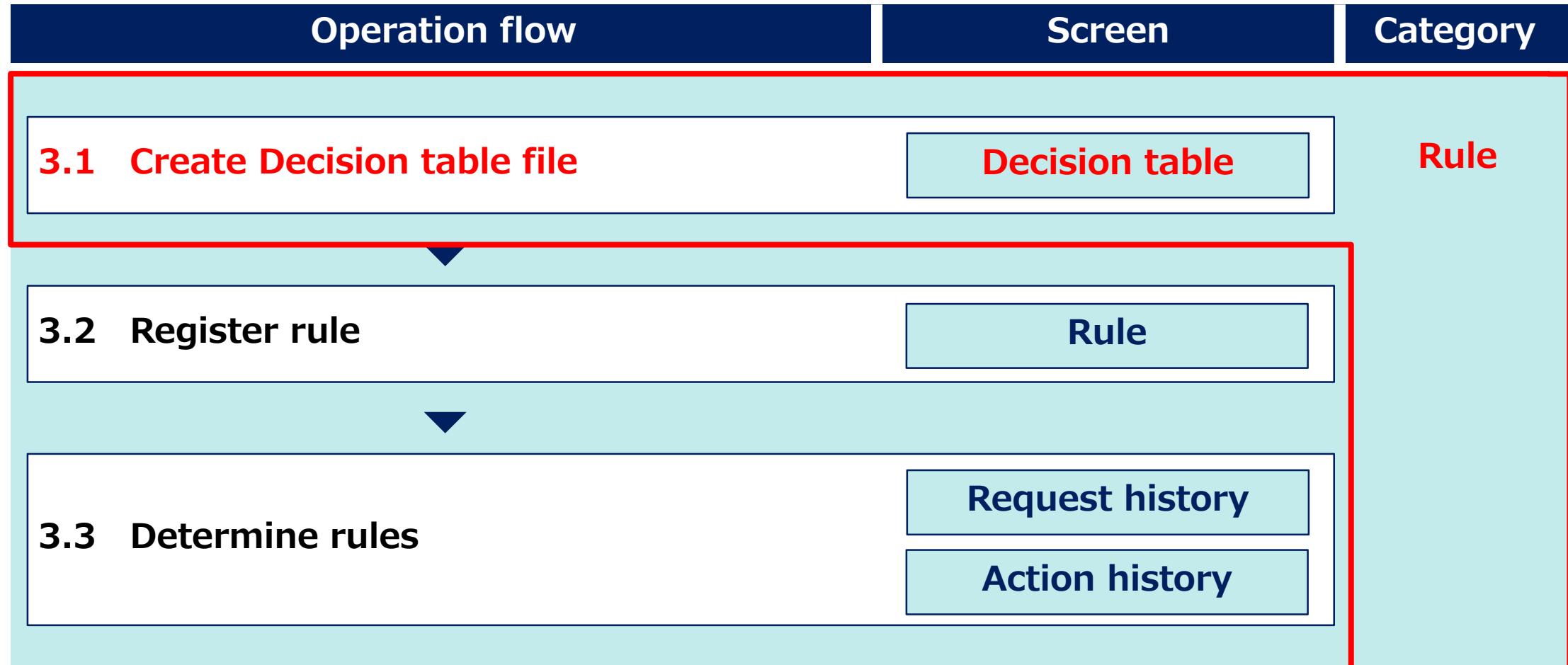
The screenshot displays the OASE interface with several windows open, illustrating user permissions:

- Top Left Window (User C):** Shows a "Decision table" section with a message: "The decision table does not exist. If you have permission, you can create a decision table by clicking [Register]."
- Top Center Window (Administrator):** Shows the "Rule" section with tabs for "Staging" and "Production". Below these tabs, the message "Can't view" is displayed.
- Bottom Left Window (User D):** Shows the "Request history" section with the message "There is no action history".
- Bottom Center Window (User D):** Shows the "Action history" section with the message "There is no action history".
- Right Side Window (ZABBIX Adapter ver1):** A configuration dialog for a Zabbix adapter. It includes fields for Name (test), Protocol (http), Host / IP (xxx,xxx,xxx,xxx), Port (80), User name (name), and Password. A red box highlights the "Decision table name selection" dropdown, which contains the message "Please select a decision table name".

### 3. OASE operation flow screen explanation

### 3.1 Create Decision table file (1/2)

The following chapter will cover the part marked with red



### 3.1 Create Decision table file (2/2)

#### Describing specific rules

- Write the rules that are used when deciding what to do with the request messages

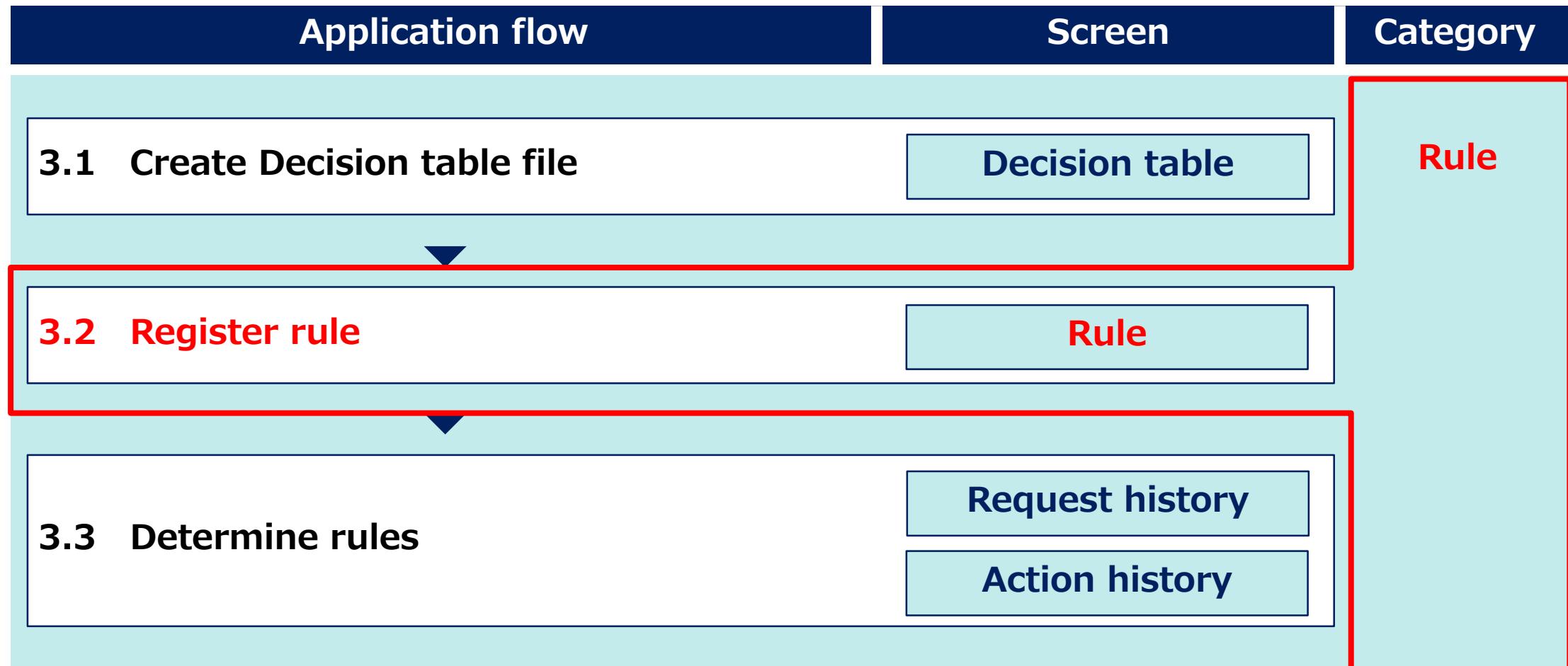
- Comment part : Free field. Can be used for rule descriptions, etc.
- Condition part : Write a specific condition that fits the conditional expression
- Action part : Configure the action that will happen after the rule matching
- Action condition part : Set the effective and expiration date

	A	B	C	D	E	R	S	T
1	Rule description	Alert(Including)	Target(Including)	Rule name (Required)	group priority	Date Effective	Expiration date	
11	Run ITA	Error	HDD	rule_error	X			
12	Notify by mail	Warning	HDD	rule_warning	X			
13								

If a message with the words "Error" or "HDD" is requested to the decision table above, it will match "rule\_error" rule with "Alert: Error" and "Target :HDD".

## 3.2 Register rule (1/4)

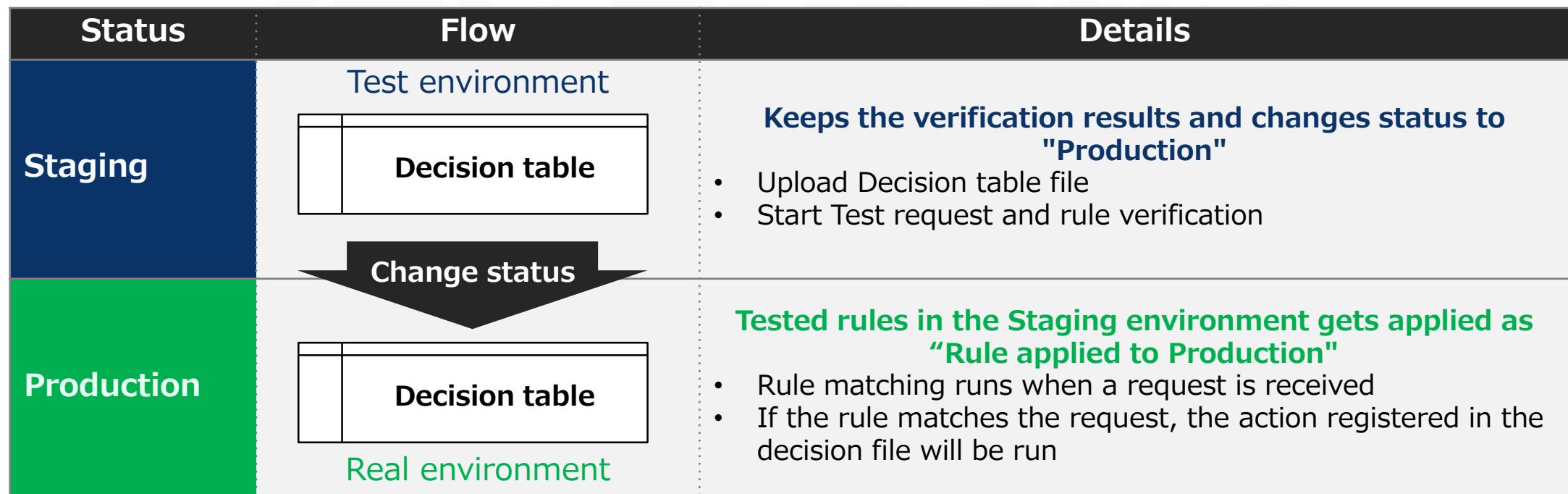
The following chapter will cover the part marked with red



## 3.2 Register rule (2/4)

### “Staging” and “Production”

- It is possible to test the requests in a staging environment before applying them to the production environment.
- If the rules are verified, the status will change to “Applied to Production” where it can be used in the real environment (the action will not be executed when being verified)
- If a message that corresponds to the production applied rule hits OASE, OASE will start the rule matching and run the action described.

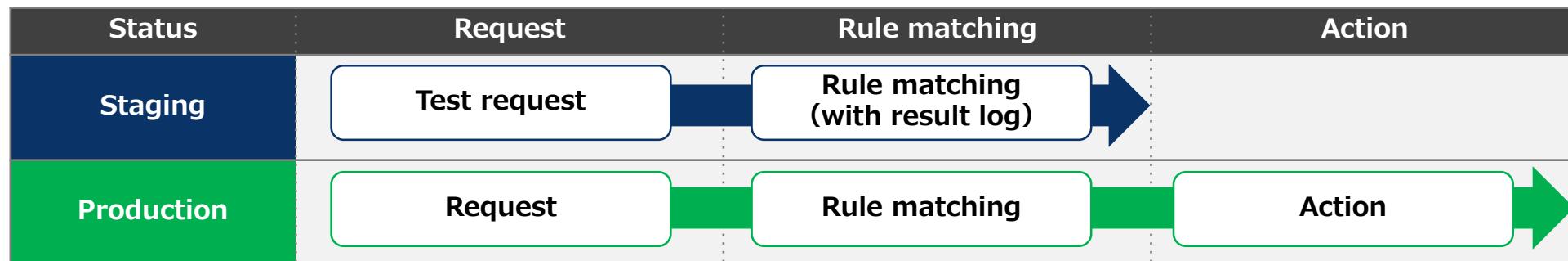


## 3.2 Register rule (3/4)

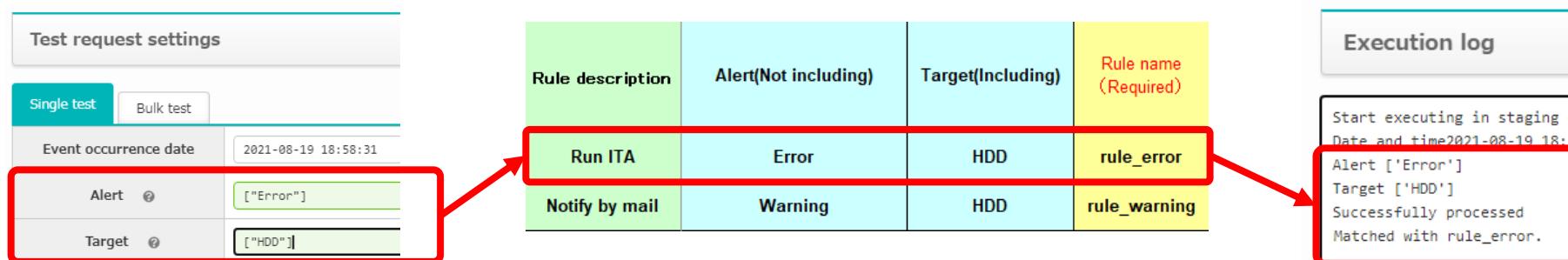
### Test the created rules in a “Staging” environment

- Staging

- In staging environments, users can send test requests to the rules they've created
- However, the action corresponding to the rule will not be carried out



- For example, the following figure is an example when a rule that says "Run Action A when a message with the target "HDD" and alert level "Error" is received" is tested

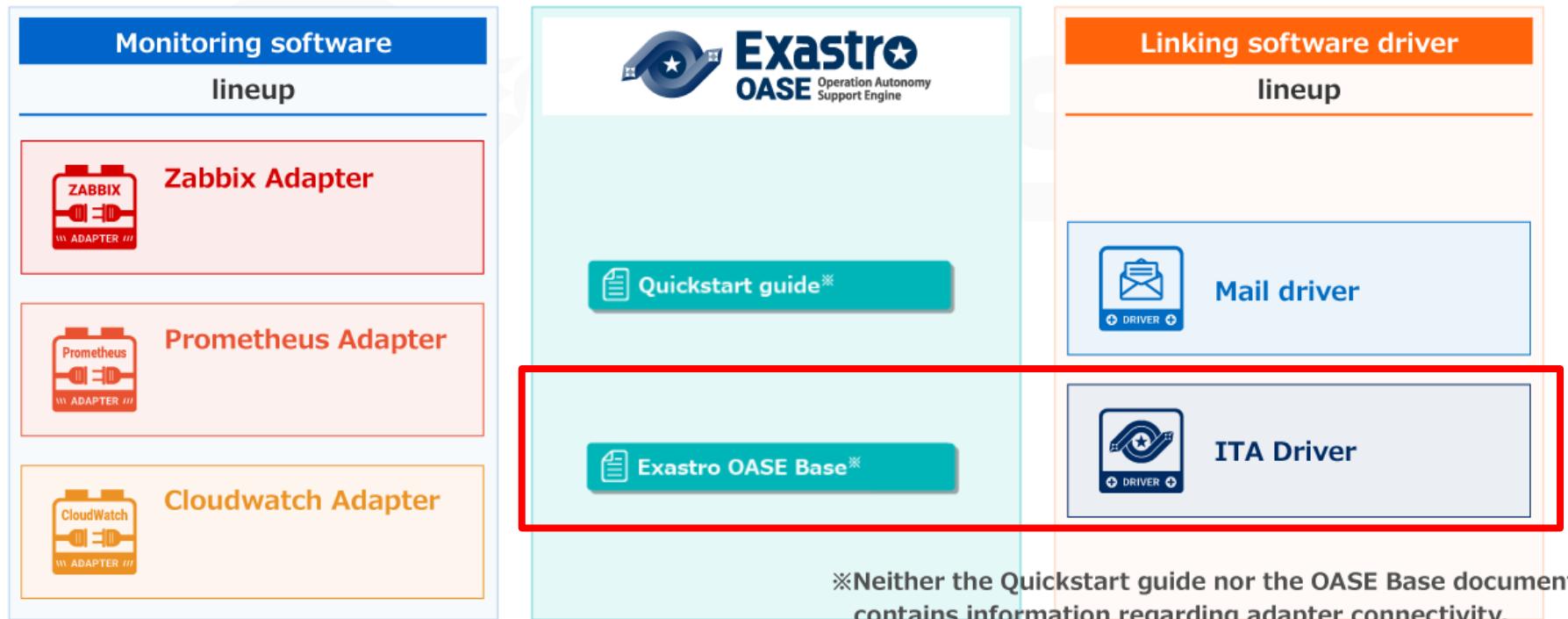


## 3.2 Register rule (4/4)

### Use the tested rules in the Production environment

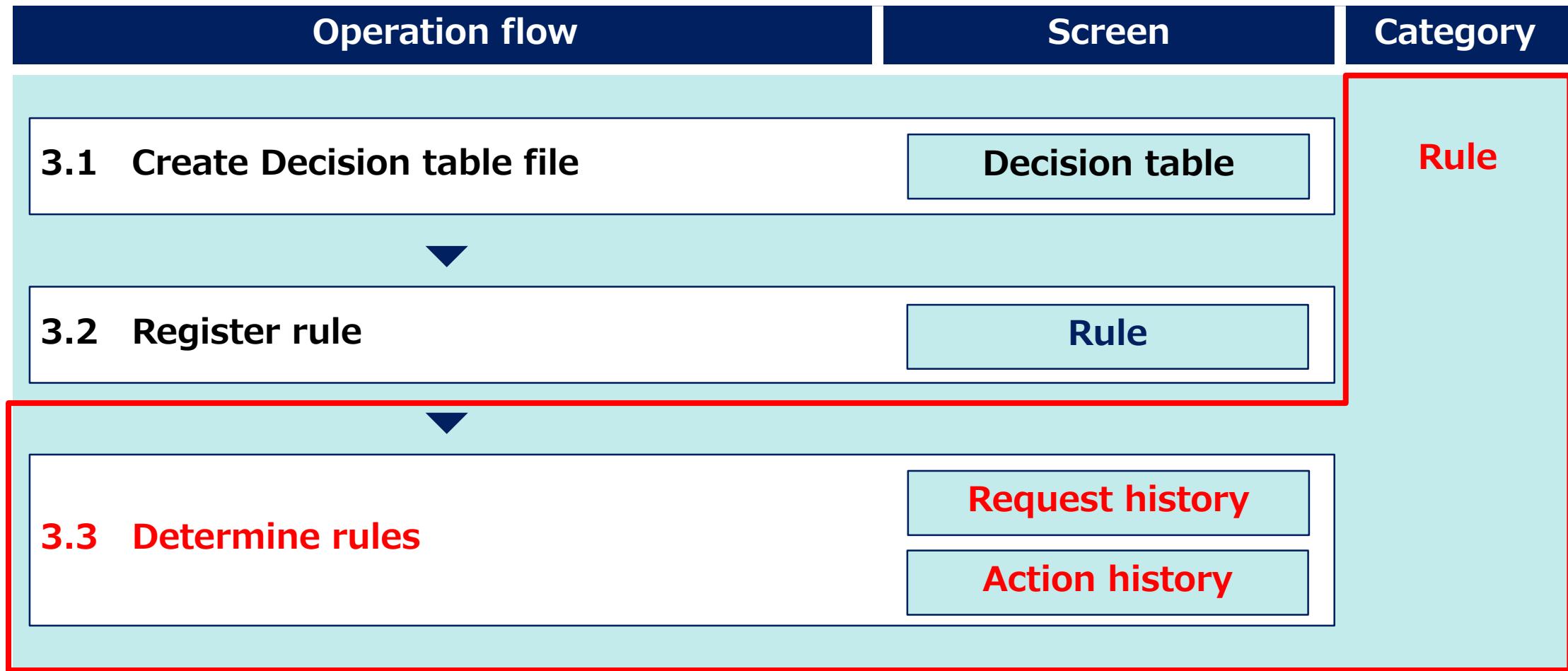
- Production

- The decision table can be moved to "Production" only after its rules have been verified in the staging environment
- If a rule has been matched in the production environment, the contents written in the decision table file's "action part" will be executed (in the Base document, the "ITA driver" will be linked)



### 3.3 Determine rules (1/3)

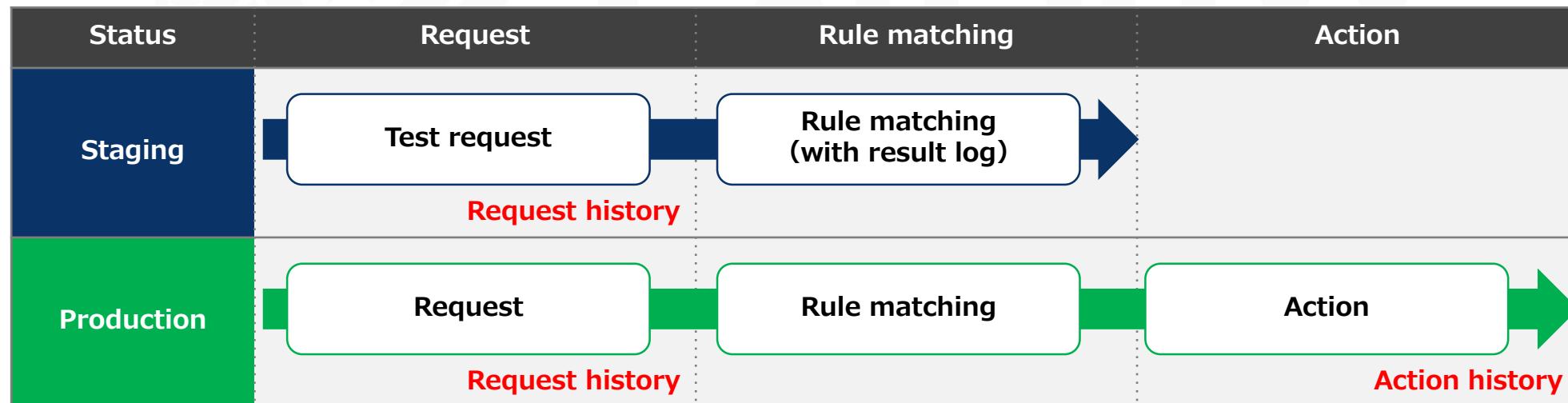
The following chapter will cover the part marked with red



### 3.3 Determine rules (2/3)

#### "Request history" and "Action history" screen

- If a test request has been sent to correspond to a rule in the "Staging" environment
  - The request will be added to "Request history"
- If a request has been sent to a rule applied to the production environment
  - The request will be added to "Request history"
  - If a received request matches a rule, the executed action will be added to "Action history"



### 3.3 Determine rules (3/3)

#### “Action history” screen

- “State” column’s icon

- Users can use the icons displayed the check if the action has been executed, if it's waiting for approval, stopped due to an error and more.

- “Control” column’s button

- Users can see more detailed information regarding the action by pressing either the “Display details” button or the “Download” button
- Users can press the “Approve” button in order to restart a paused action or run a stopped one

※ If the decision table file’s “Pre-execution action parameter information” is filled out, users can pause running actions

E	F	G	H	I	J	K	L	M	N
Rule name (Required)	Action type (Required)	Action parameter information (Required) ※ Can't use double quotation	Pre-execution action parameter information (Required) ※ Can't use double quotation ※ Define with "X" if not needed	Pre-execution action parameter information (Required) ※ Can't use double quotation ※ Define with "X" if not needed	Pre-execution action parameter information (Required) ※ Can't use double quotation ※ Define with "X" if not needed	Pre-execution action parameter information (Required) ※ Can't use double quotation ※ Define with "X" if not needed	Pre-execution action parameter information (Required) ※ Can't use double quotation ※ Define with "X" if not needed	Pre-execution action parameter information (Required) ※ Can't use double quotation ※ Define with "X" if not needed	Pre-execution action parameter information (Required) ※ Can't use double quotation ※ Define with "X" if not needed

(For more information, please see “[User manual – Action history](#)”)



**Exastro** 