OASE Operation Autonomy Support Engine

Quick Start

※"Operation Autonomy Support Engine" is referred to as "OASE" in this manual.

Version 1.0

Exastro developer

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1. Introduction

1.1 Screen description（Login screen）

OASE Login

- The login screen will be displayed by accessing the following URL.
  https://exastro-oase/oase_web/top/login

POINT

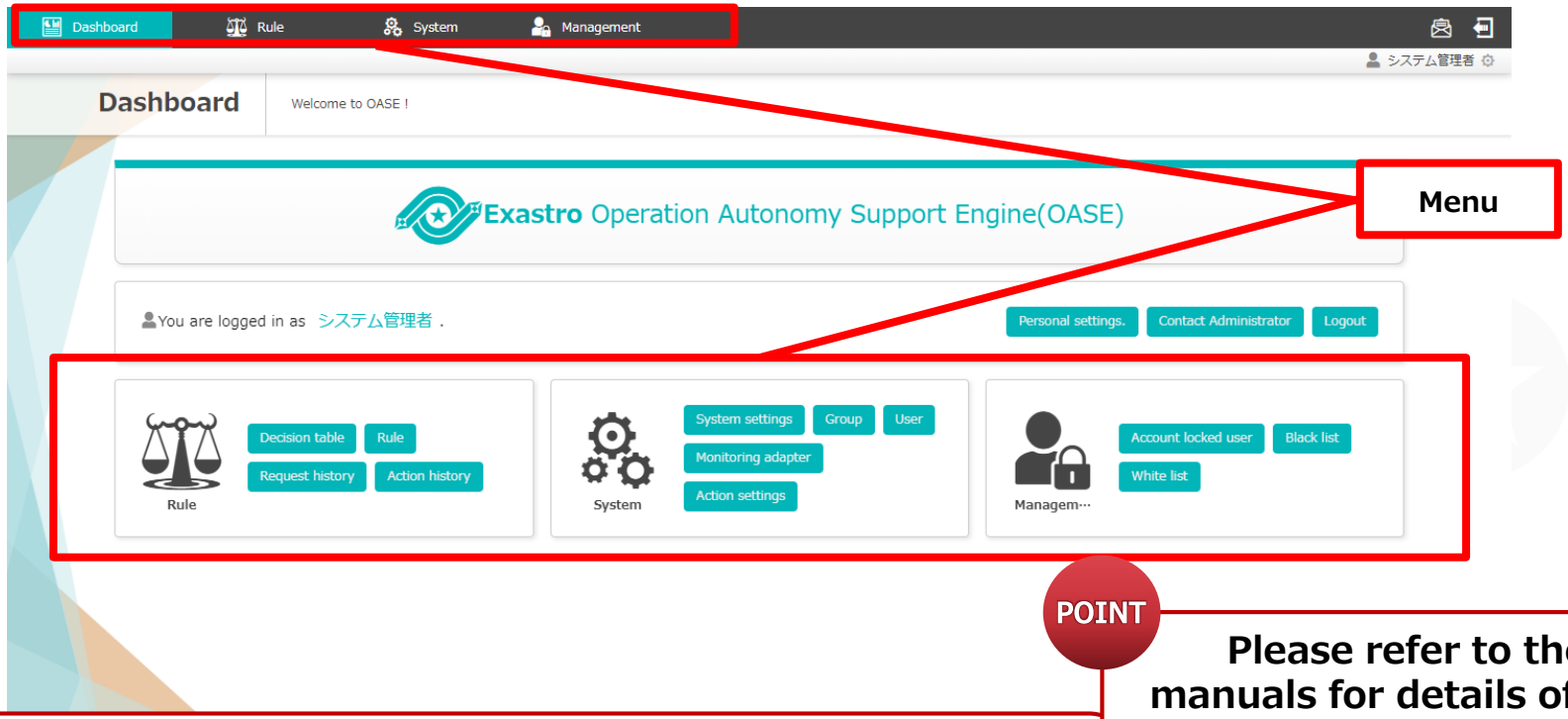
Please refer to
<Environment construction manual -Basics->
or
<OASE Learn -Introduction->
for the introduction of OASE.

POINT

The password will be requested to be changed immediately after login for the first time.

1.2 Screen Description（Dashboard Screen）

The overview of basic menu is as follows.
（Login screen > DashBoard）



POINT

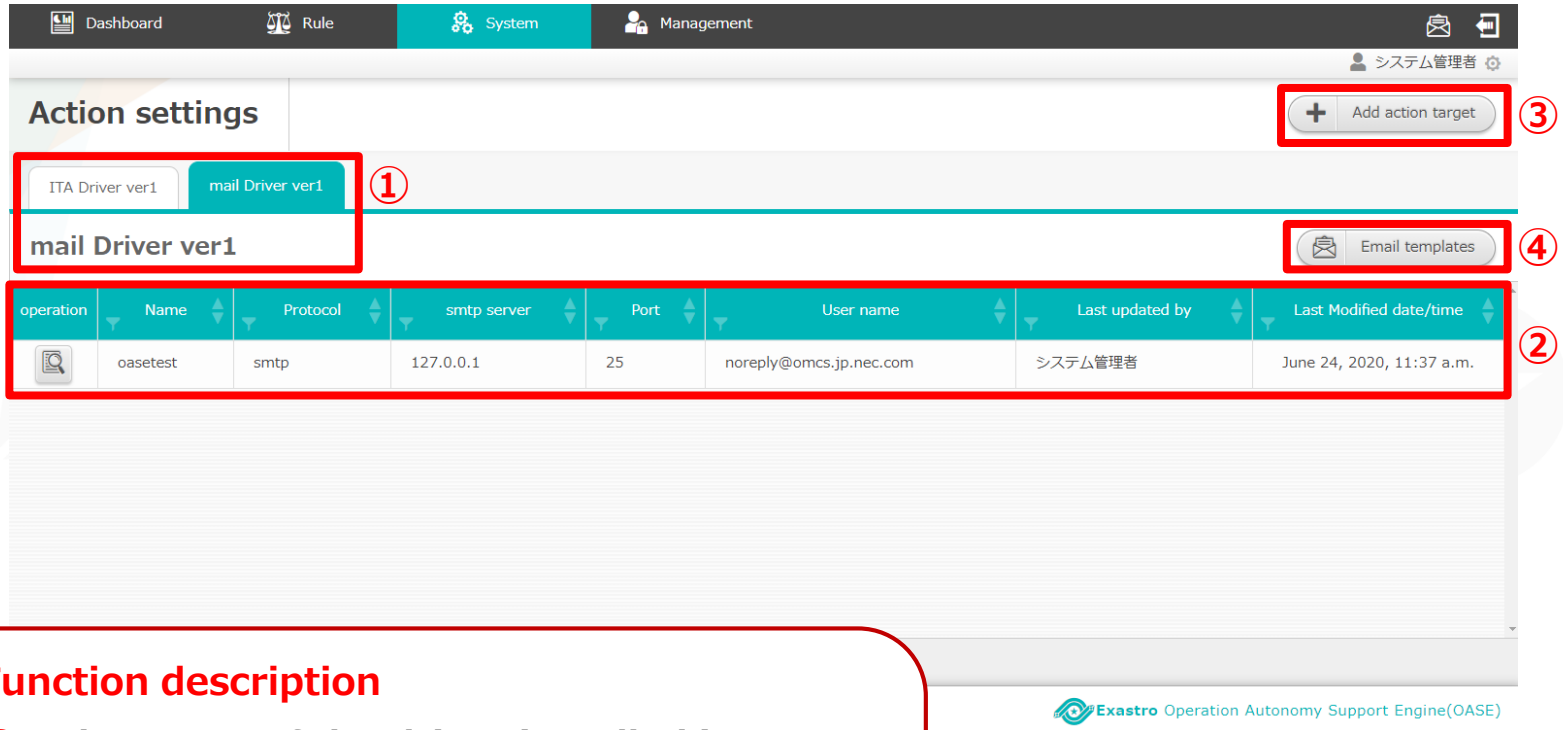
Please refer to the manuals for details of the functions in each menu.

■ Menu overview

- **Rule** : Rule creation and action result management
- **System** : General settings and permission management
- **Management** : Security-related management

1.3 Screen description（Action setting screen）

The following functions are used in this quick start manual.
（DashBoard > System > Action settings > mail Driver ver1）



■Function description

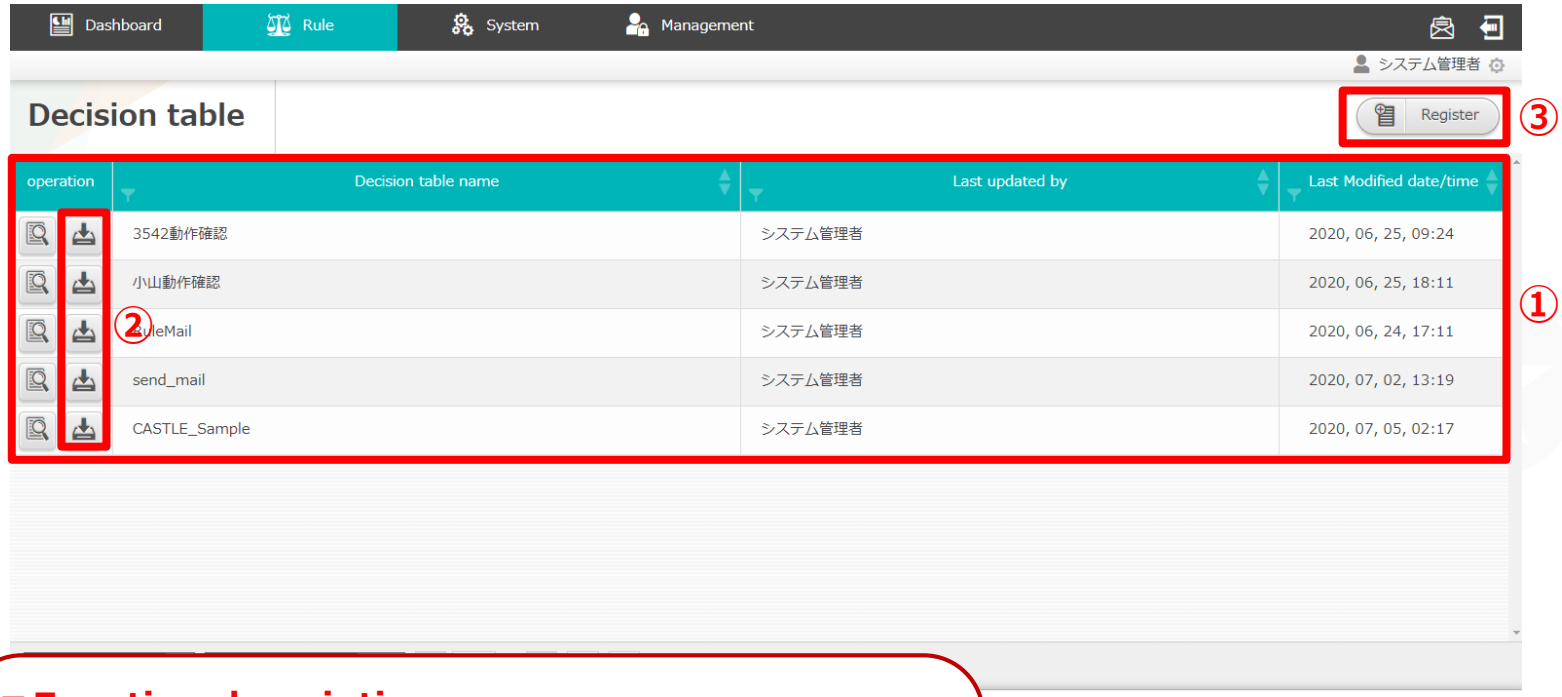
① **The name of the driver installed in OASE**
② **The information of the registered action target**
③ **The button to add action target information to installed driver**
④ **The button to create mail template**

POINT

Please refer to the manuals for details of the functions in each menu.

1.4 Screen description（Decision table screen）

The following functions are used in this quick start manual.
（DashBoard > Rule > Decision table）



■ Function description

① **The decision table registered in OASE**
② **The button to download the decision table file**
③ **The button to move to register screen and create new decision table**

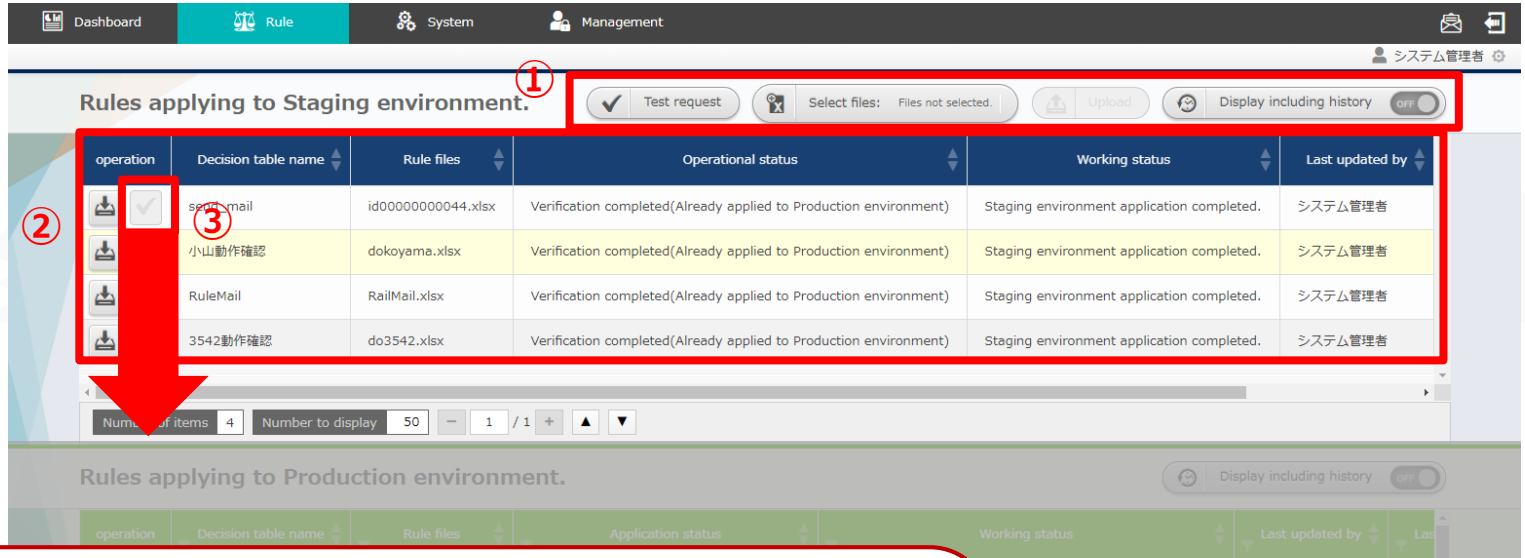
POINT

Please refer to the manuals for details of the functions in each menu.

1.5 Screen description（Rule screen）

The following functions are used in this quick start manual.
(DashBoard > Rule > Rule > Rules applying to Staging environment)

- The “Apply” button will be enabled if the decision table has been uploaded to staging environment and applicable rules are found after performing test request.



■ Function description

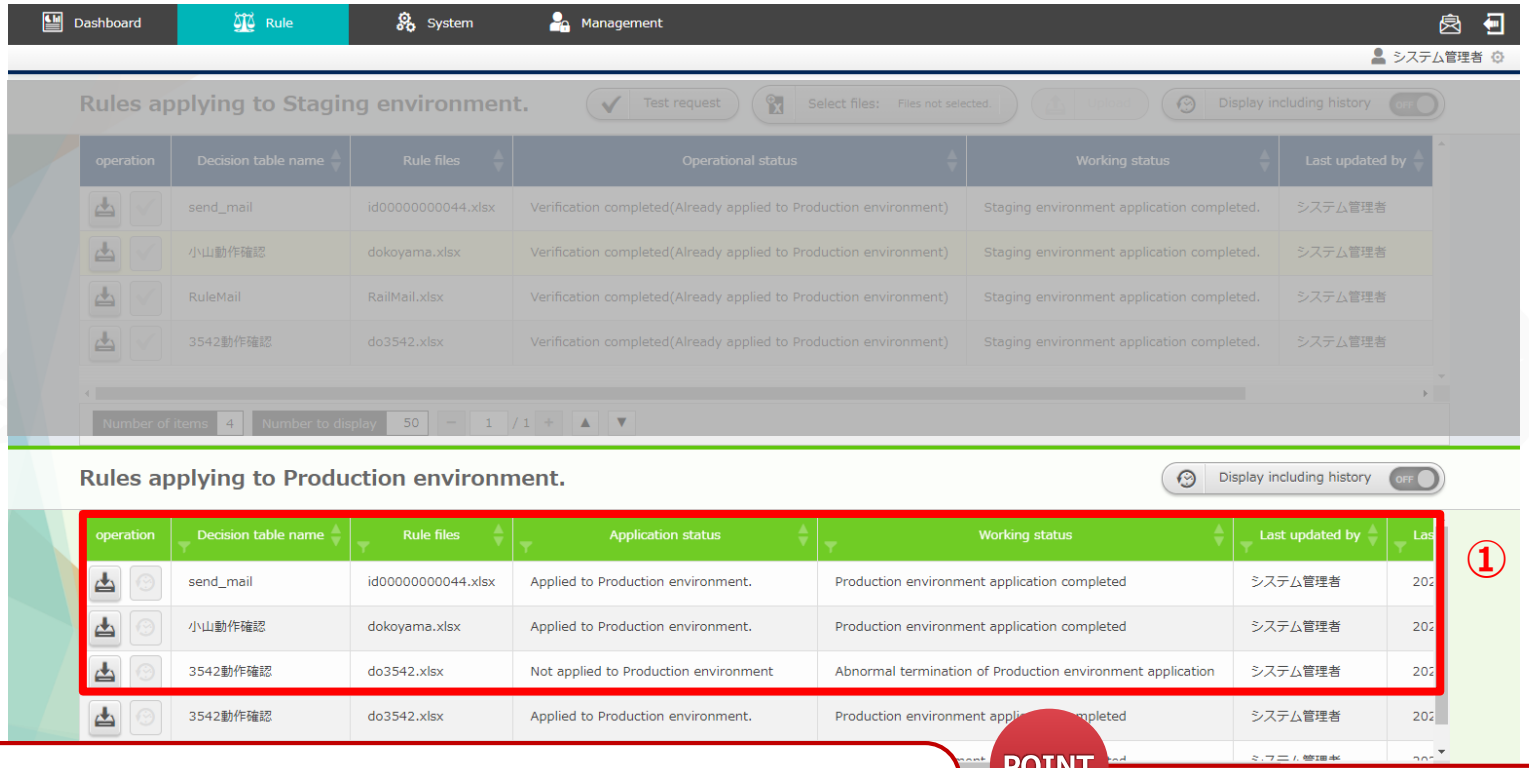
① **The button to operate the decision table file**
② **The list of the uploaded decision table files and their status**
③ **The button to apply from staging to production environment**

POINT

Please refer to the manuals for details of the functions in each menu.

1.5 Screen description（Rule screen）

The following functions are used in this quick start manual.
(DashBoard > Rule > Rule > Rules applying to Production environment)



■ **Function description**

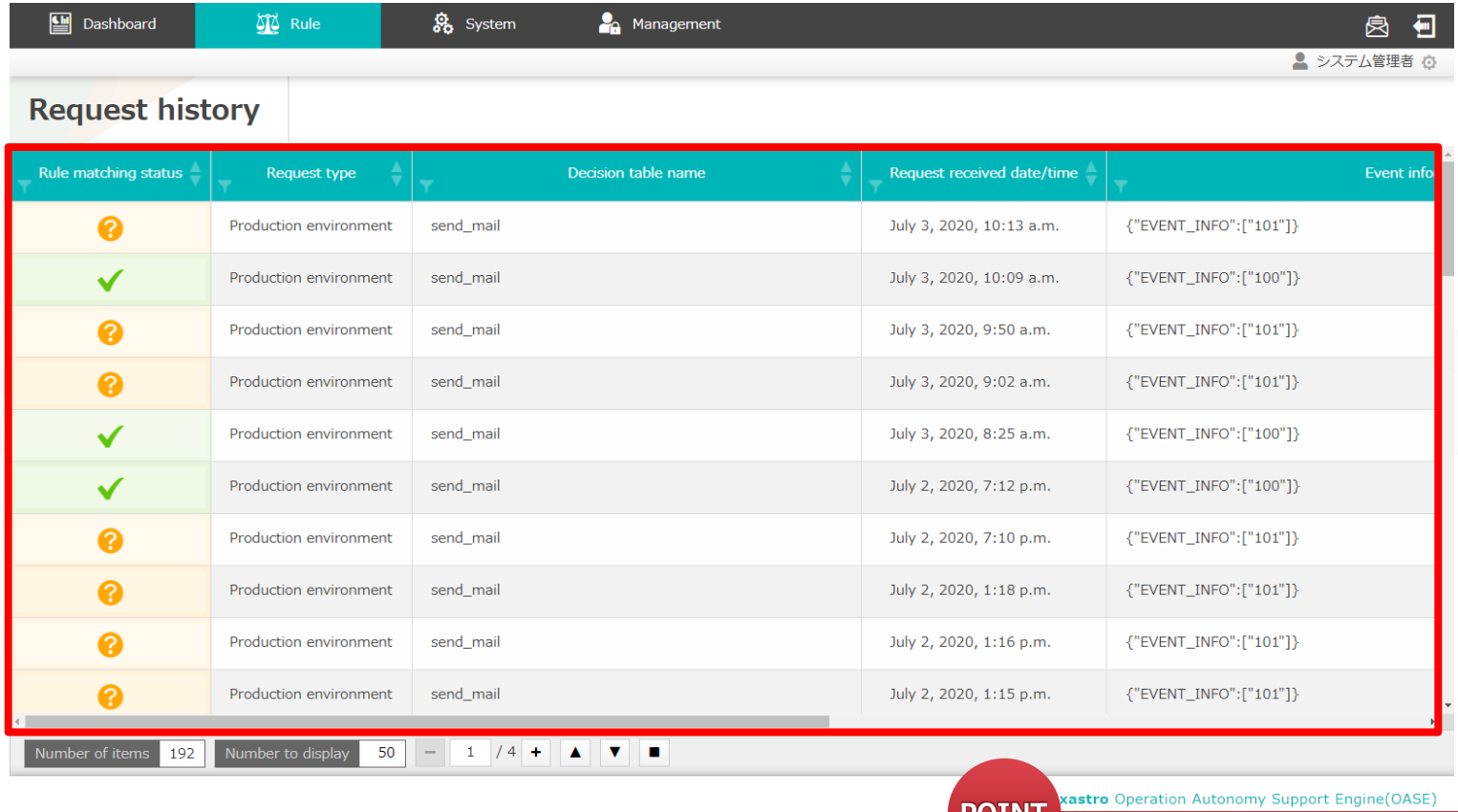
① **The list of the rules that are practically operated when messages are sent to OASE**

POINT

Please refer to the manuals for details of the functions in each menu.

1.6 Screen description（Request history screen）

The following functions are used in this quick start manual.
（DashBoard > Rule > Request history）



■Function description

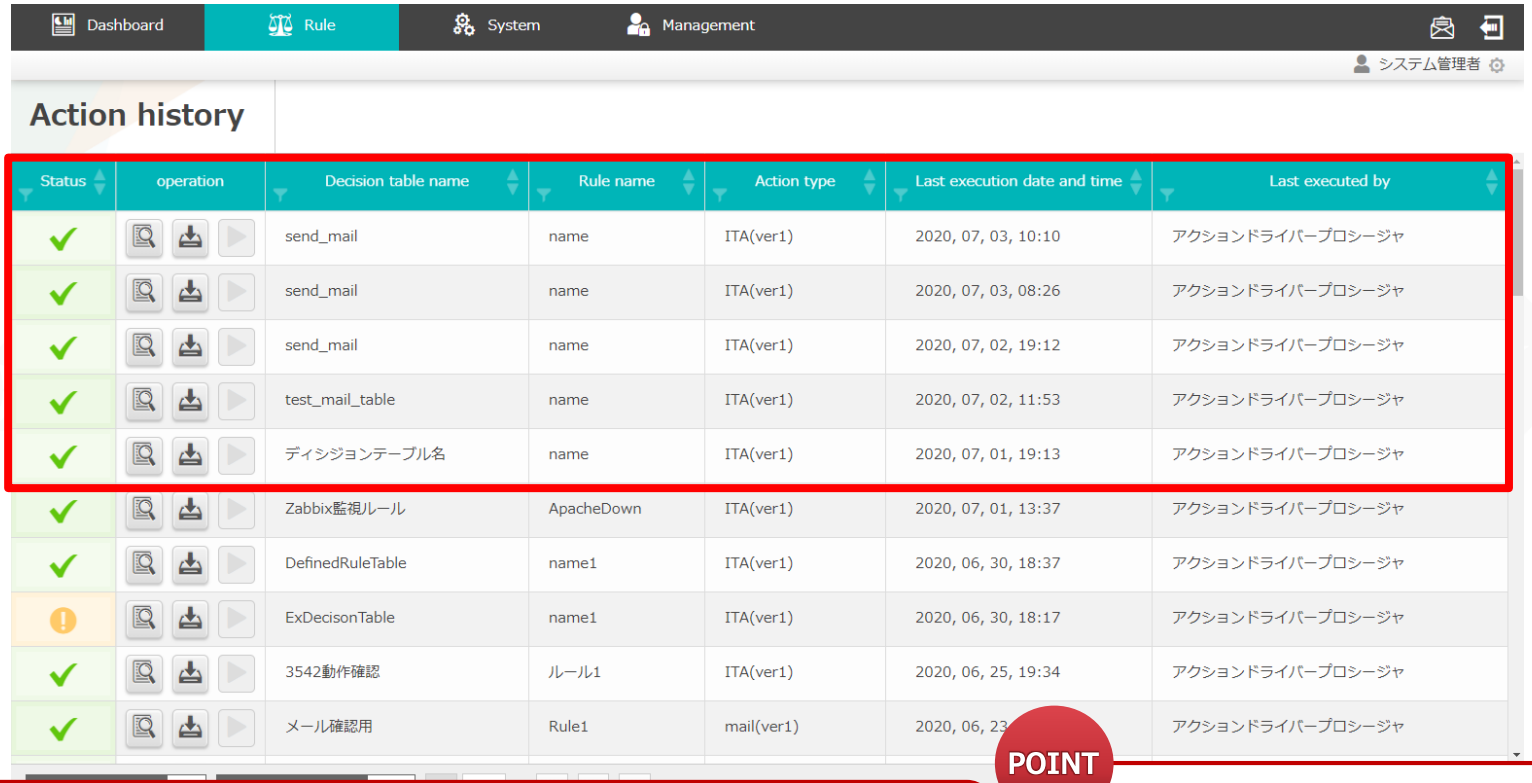
① **The list of the matched rules and their status**

POINT

Please refer to the manuals for details of the functions in each menu.

1.7 Screen description（Action history screen）

The following functions are used in this quick start manual.
（DashBoard > Rule > Action history）



■ Function description

① **The list of the matched rules and their status**

POINT

Please refer to the manuals for details of the functions in each menu.

2. Scenario description

2.1 The scenario of this manual

Scenarios after OASE installation until action history being obtained.

Preparation before execution

1. **Set mail driver and create mail template**
2. **Create decision table**
3. **Create decision table file ※In Excel**
4. **Upload decision table file**
5. **Test request**
6. **Apply to production environment**

Operation execution

7. **Send request via curl command**
8. **Check the result of action execution**

POINT

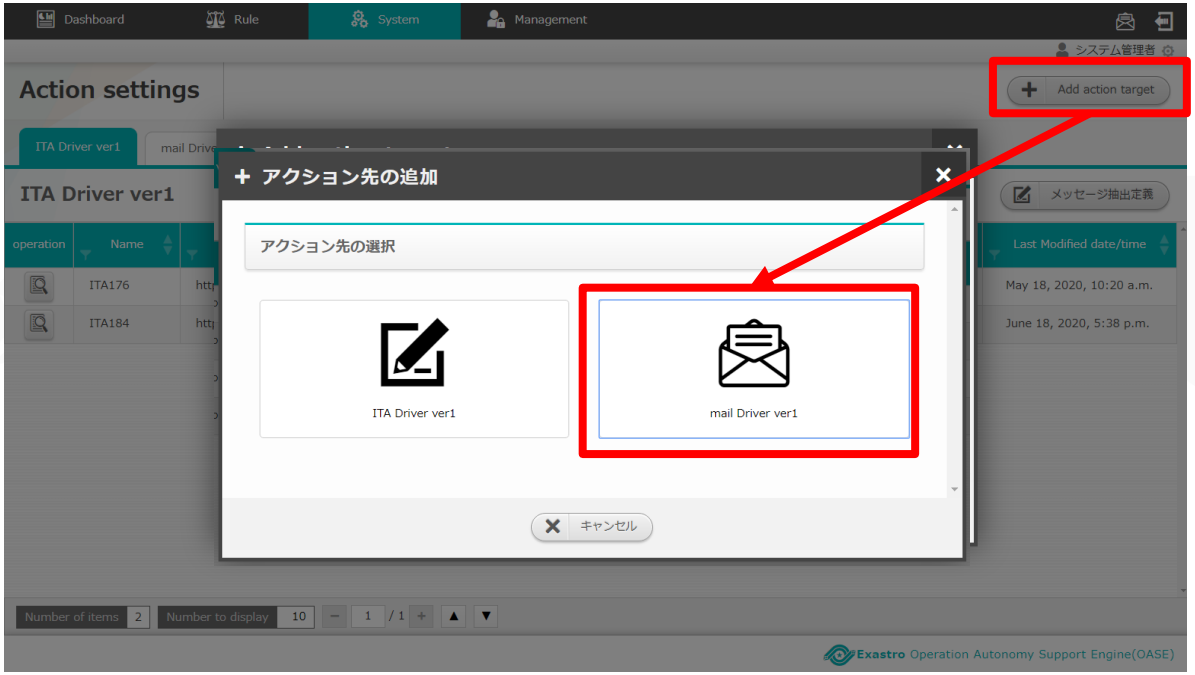
Preparation before execution includes driver setting and rule registration.
Operation execution includes sending messages to OASE to match rules and execute actions.

3. Preparation before execution

3.1 Set mail driver and create mail template (1/3)

Add action target

- Click the “Add action target” button on the “Action settings screen”, them select “mail Driver ver1” in the “Select an action target” column.



- Set mail driver and create mail template
- Create decision table
- Create decision table file ※In Excel
- Upload decision table file
- Test request
- Apply to production environment
- Send request via curl command
- Check the result of action execution

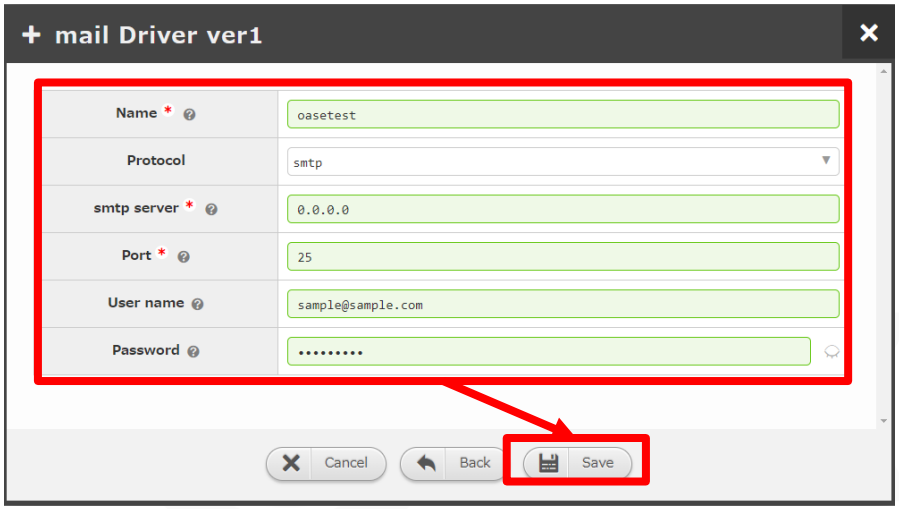
POINT

Please refer to <Environment construction manaul -Driver installation->
if the mail driver hasn’t been registered.

3.1 Set mail driver and create mail template (2/3)

Set action target

- Enter required information then click the “Save” button.



Item	Setting value
Name	Enter any desired action target name.
Protocol	Select either “smtp” or “smtp_auth”
Smtp Server	Enter private IP or global IP ※The SMTP server has to be prepared in advance
Port	Enter the port number used for communication
User name	Enter the user name as the mail sender.
Password	Enter the password required for authentication

POINT

“Item:name” is used to specify “Execute action to which action target” when creating the latter mentioned decision table file.

POINT

“Item:user name” is displayed as the sender of the mail.

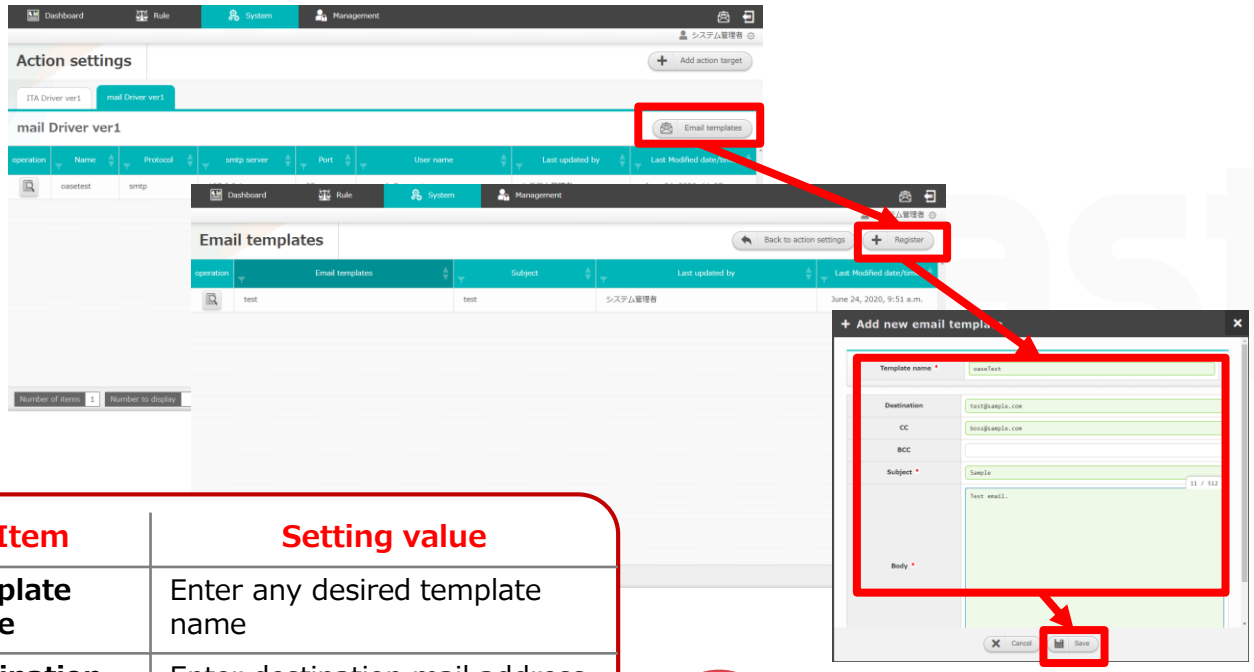
- **Set mail driver and create mail template**
- **Create decision table**
- **Create decision table file ※In Excel**
- **Upload decision table file**
- **Test request**
- **Apply to production environment**
- Send request via curl command
- Check the result of action execution

POINT Items with * are required items

3.1 Set mail driver and create mail template (3/3)

Create mail template

- Click the “Mail template” button then click the “Register” button.
- Enter the required information in “Mail template register screen” then click the “save” button.



Item	Setting value
Template name	Enter any desired template name
Destination	Enter destination mail address
CC	Optional
BCC	Optional
Subject	Enter any desired subject
Body	Enter any desired body context

POINT

“Item:template name” is used to specify “which mail template to use” when creating the latter mentioned decision table file.

Set mail driver and create mail template

Create decision table

Create decision table file ※In Excel

Upload decision table file

Test request

Apply to production environment

Send request via curl command

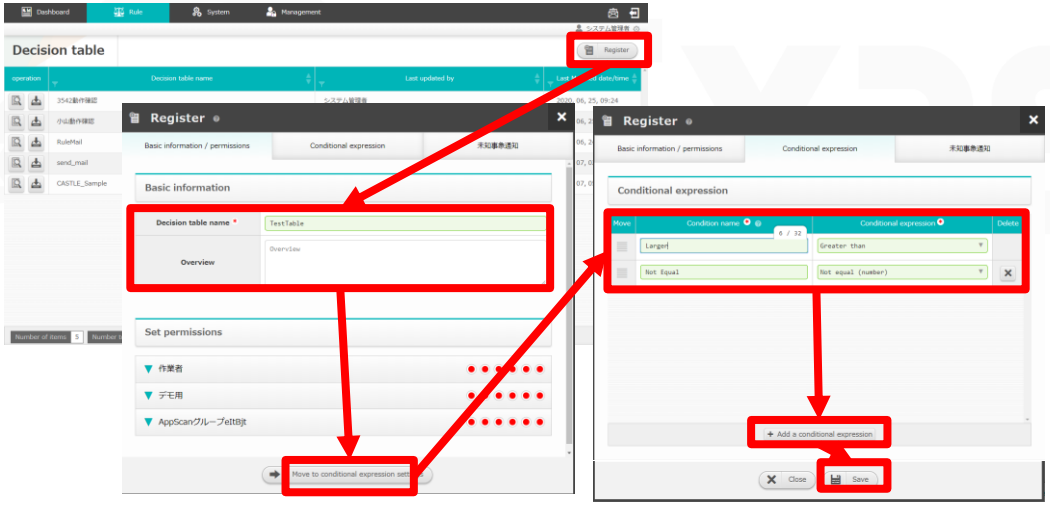
Check the result of action execution

POINT

Items with * are required items

Create decision table

- Click the “Register” button in “Decision table screen”, enter required information in “Basic information / permissions” tab and “Conditional expression” tab on the “Register” screen then click the “Save” button.
- Enter any desired string for “Rule type” ,”RuleTable”, and “Condition name”.
- Select “Coniditional expression” from the pulldown menu.



Set mail driver and create mail template

Create decision table

Create decision table file ※In Excel

Upload decision table file

Test request

Apply to production environment

Send request via curl command

Check the result of action execution

POINT

“Item: Rule type” is handled as “created decision table name”
“Item: RuleTable” is handled as the “Decision table file name” as output excel file.

POINT

The specific value of the conditional expressions set here are set in the latter mentioned decision table file.

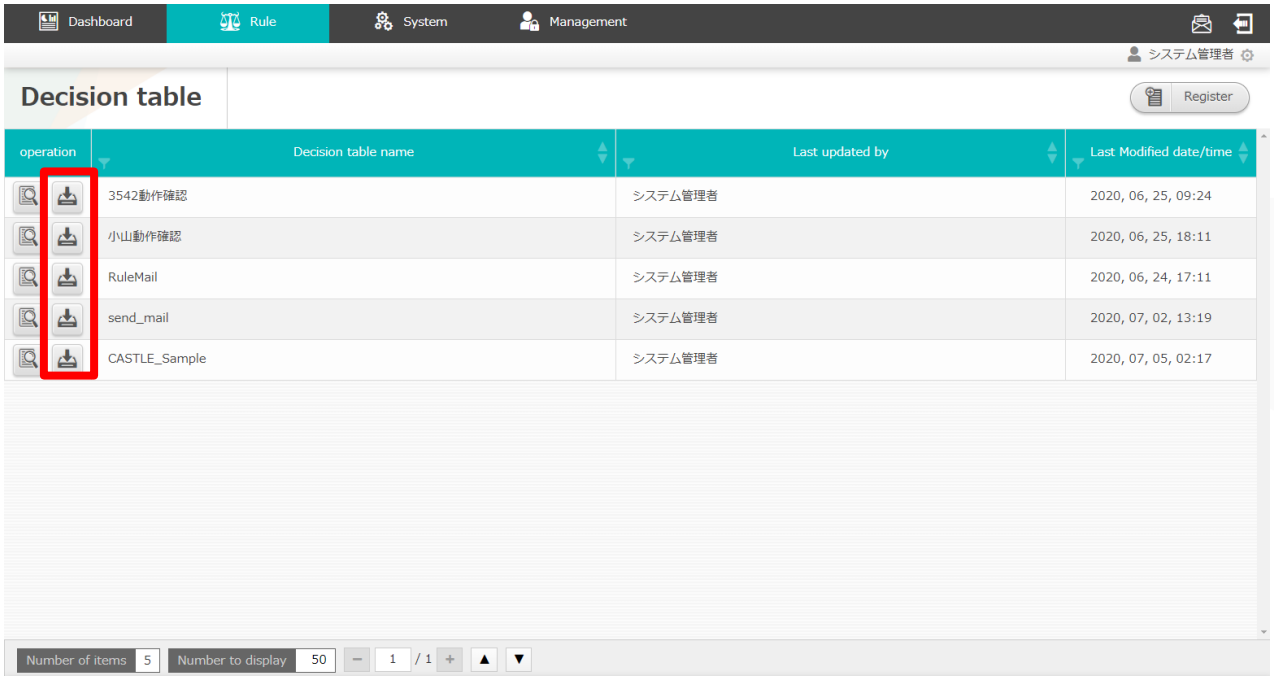
POINT

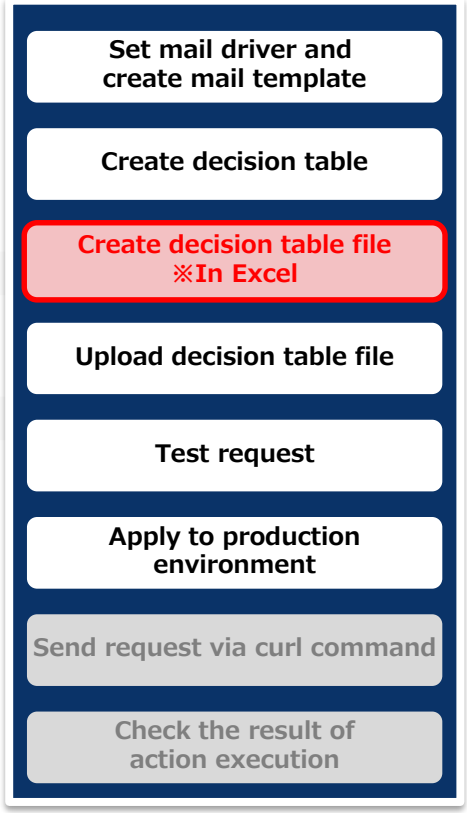
Items with * are required items

3.3 Create decision table file ※In Excel (1/2)

Download and create decision table file

- Download the decision table created in “3.2 create decision table” by clicking the download button.





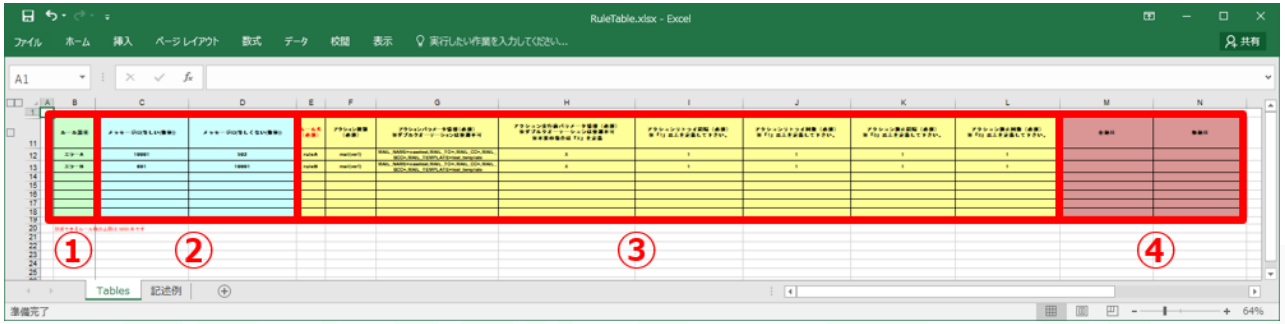
POINT

The file name of the downloaded file
is the “Item: RuleTable” string entered in the previous page.
The details of each item will be described in the next page.

3.3 Create decision table file ※In Excel (2/2)

Enter the following content in the decision table file.

※For practical usage example, please refer to “A Appendix Sample1”.



①Comment part	Can be empty. Enter description or other desired content.
②Condition part	Enter the condition which matches the rule.
③Action part	• Set the action to be executed for each rule name. • Users can set to execute action or send approval mail. • Only the drivers set in “Action settings” screen can be entered in “action type”. (In this document, “mail Driver ver1” is set.) • Please note that the format of “Action parameter information” is different for each action type.
④Action condition part	Can be empty. Users can set the time to enable and disable the rule.

- Set mail driver and create mail template
- Create decision table
- **Create decision table file ※In Excel**
- Upload decision table file
- Test request
- Apply to production environment
- Send request via curl command
- Check the result of action execution

POINT

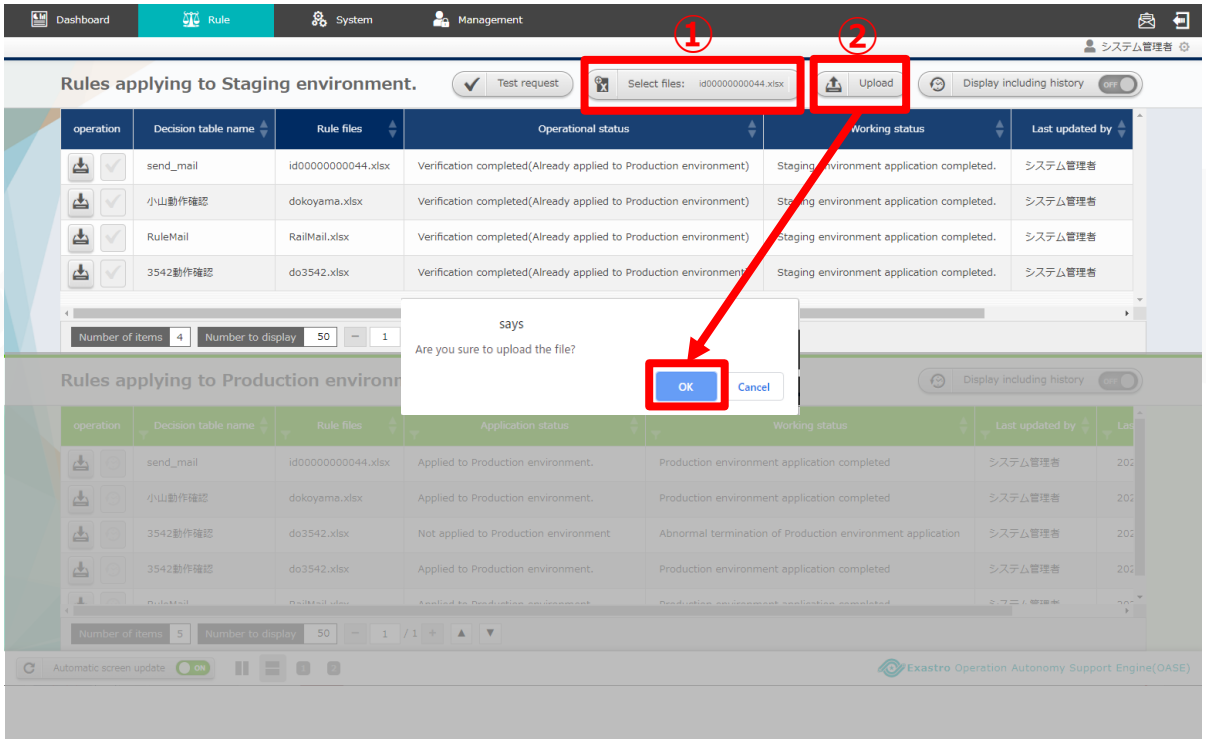
Please refer to the “Description example” sheet in the decision table file
For the way to describe the values.

3.4 Upload decision table file

Select the decision table file to perform test request.

① Click the “select file” button in the “Rule” screen then select the created decision table file.

② Click the “Upload” button.



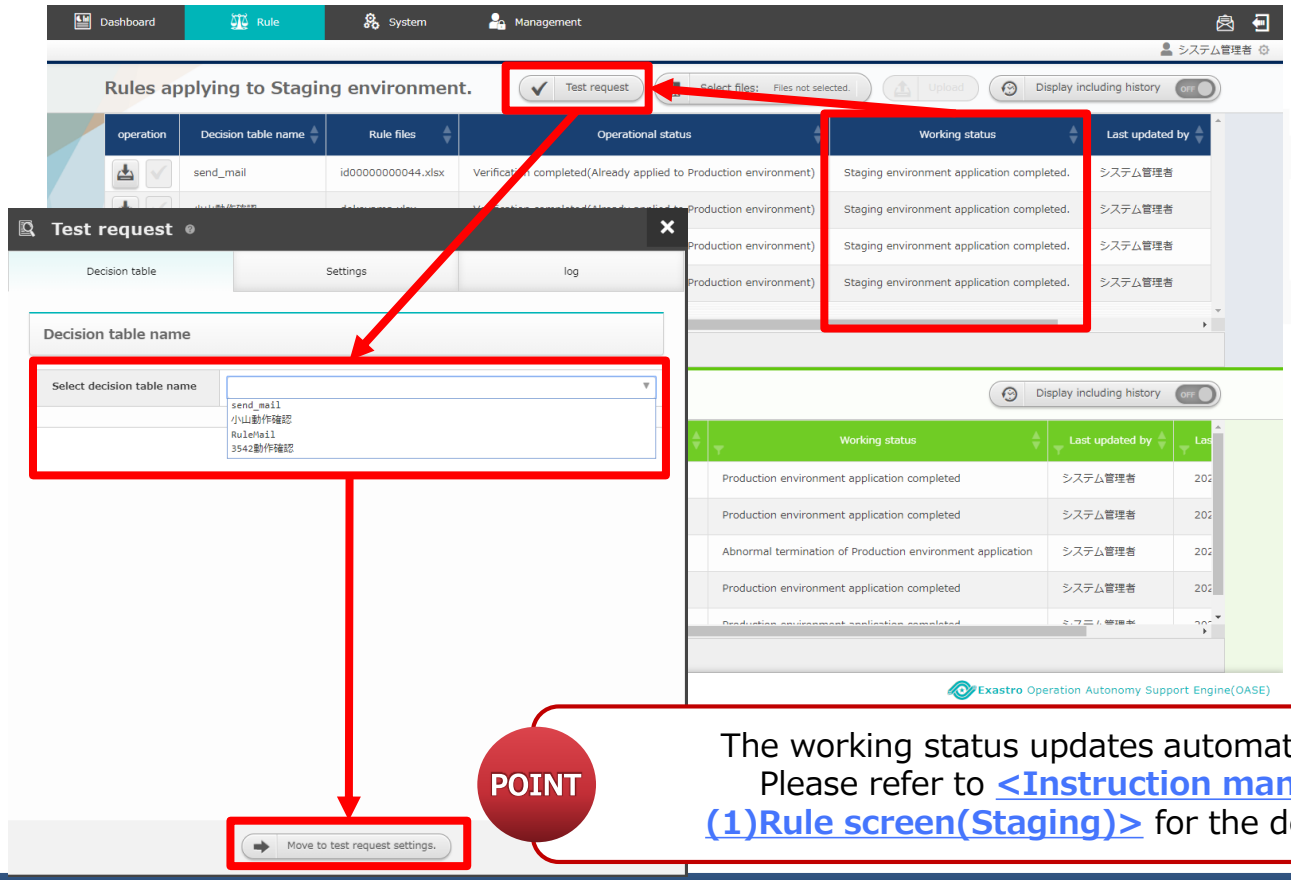
- Set mail driver and create mail template
- Create decision table
- Create decision table file ※In Excel
- **Upload decision table file**
- Test request
- Apply to production environment
- Send request via curl command
- Check the result of action execution

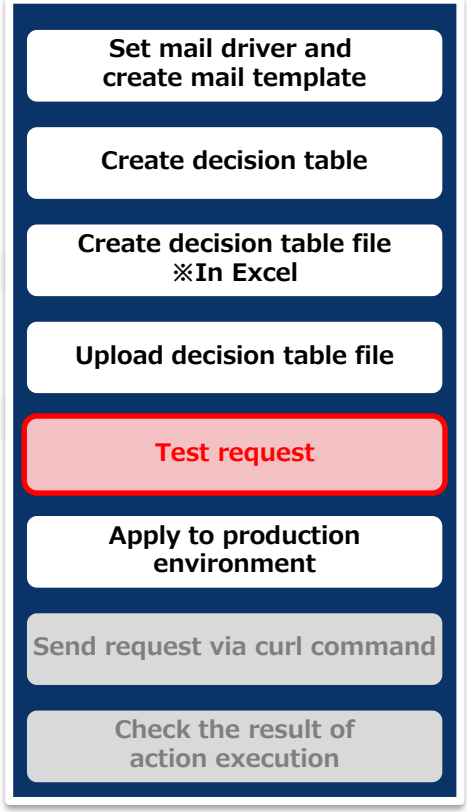
POINT File name is the string entered in the RuleTable column in <3.2 Create Decision table>.

3.5 Test request (1/2)

Select test request target

- Click the “Test request” button when the “Working status” columns becomes “Applied to Staging environment”.
- Select the rule type to perform test in “Select rule type”, then click the “Move to test request settings” button.





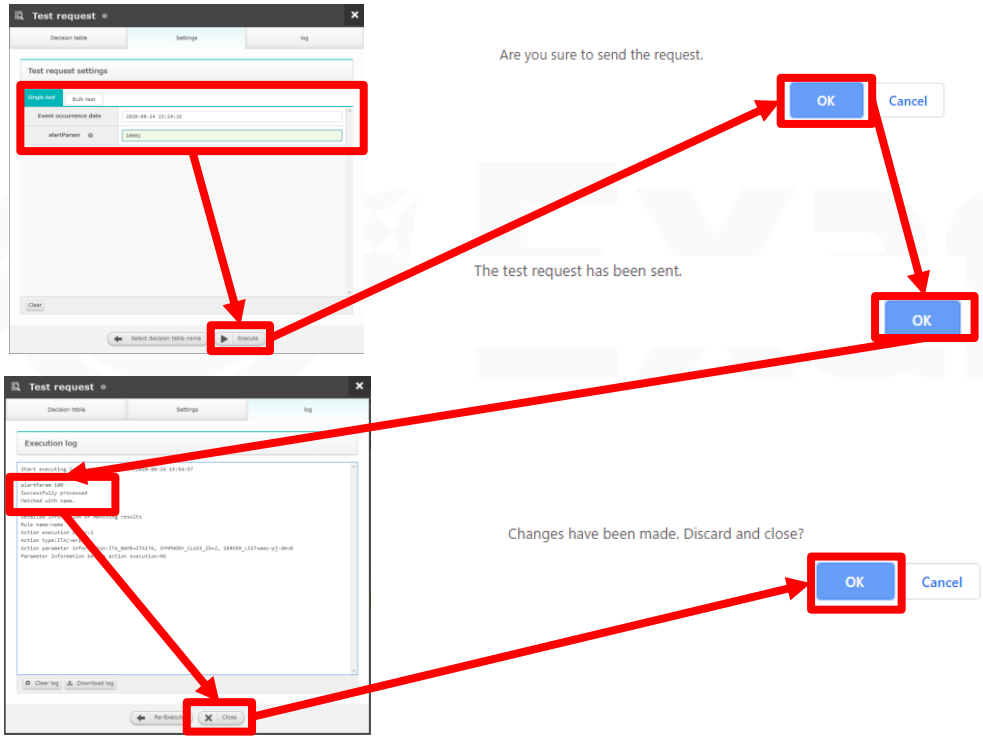
POINT

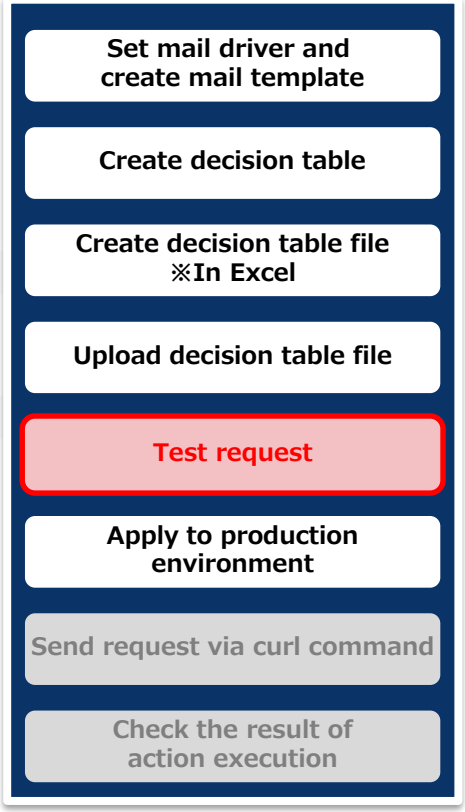
The working status updates automatically every 5 seconds.
Please refer to <Instruction manual –Rule Screen- (1)Rule screen(Staging)> for the details of working status.

3.5 Test request (2/2)

Enter the value for the text, then execute to confirm that the rule is available.

- Enter the value that matches the rule in the input field of “Single test” tab then enter the “Execute button.





POINT

When matched the rules created in <3.3 Create decision table (Excel)>,
“Successfully processed” and “Matched” will be displayed in execution log.
When rule matched, “Operation status” will change to next state.

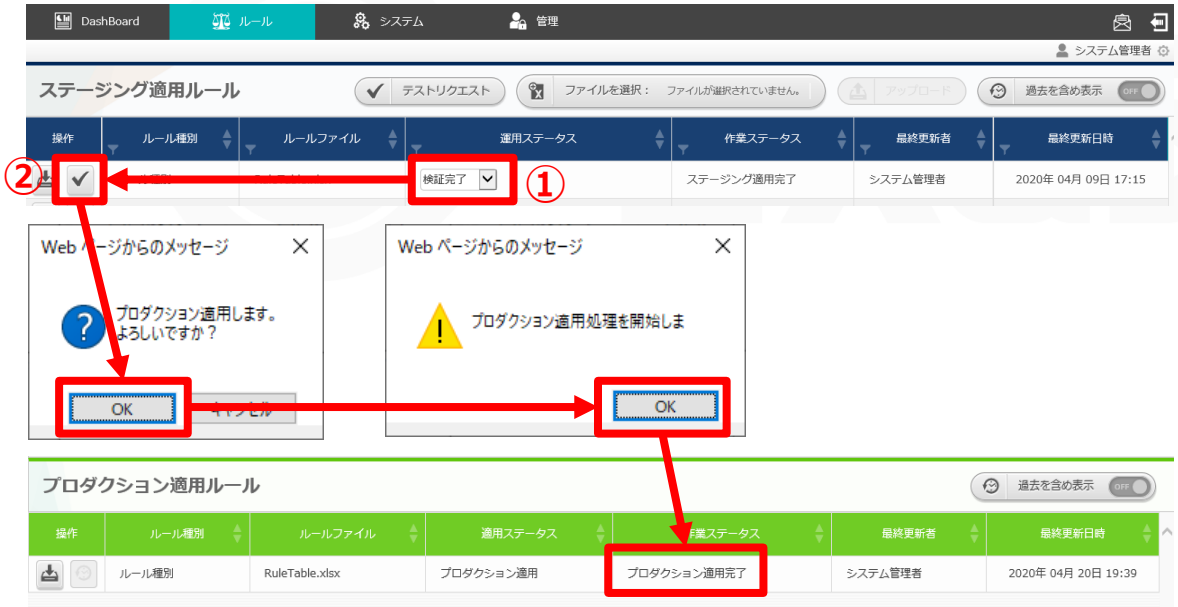
3.6 Apply to production environment

Make verified rules available in production environment.

- To enable rule in production environment, apply the rule from “Rules applying to Staging environment” to “Rules applying to Production environment”.

① When the test request matched the rule correctly, the operation status in staging environment will change to “Verification completed”.

② When the operation status in production environment becomes “Applied to production environment after pressing the ”Apply” button, the rule will be available in production environment.



POINT

The operation status updates automatically every 5 seconds. Please refer to <Instruction Manual -Rule Screen- (2)Rule Screen(Production)> for the details of operation status.

4. Operation execution

4.1 Send request via curl command (1/2)

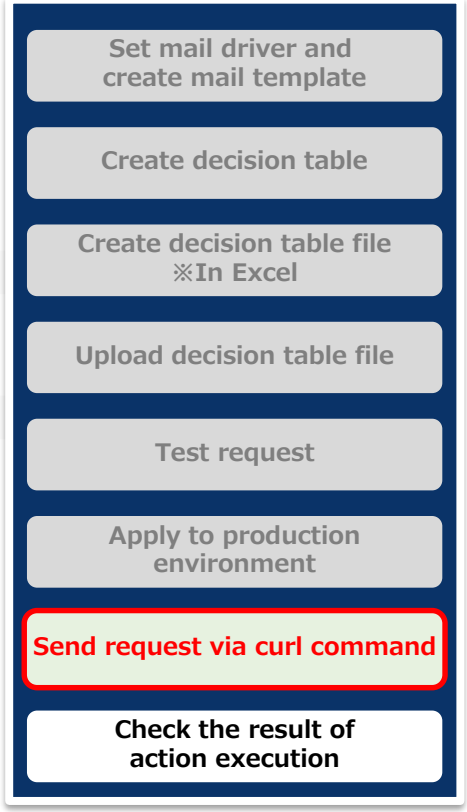
Send the message and match the rule applied to production environment with the message

- Open the terminal and execute after rewriting the following commands according to the rules.

※See "A Appendix Sample 1" below for specific usage examples of the curl command.

```
curl -X POST -k “https://<①Host name>/oase_web/event/event/eventsrequest” -H “accept: application/json” -d “{¥”ruletable¥“:¥“<②Ruletable name>¥”,¥”requesttype¥“:¥“<③Requesttype>¥”,¥”eventdatetime¥“:¥“<④event occurrence datetime>¥”,¥”eventinfo¥“:[¥“<⑤event info>¥"]}"
```

Item	Setting value
①Host name	Enter valid host name, IP address
②RuleTable name	Enter the rule file name applied to production environment(without .xlsx)
③Request type	Enter “1” since the target is “1:production environment” Example) ,¥"requesttype¥":¥"1¥",
④Event occurrence datetime	Enter the time in”yyyy/mm/dd hh:mm:ss” format Example) ,¥"eventdatetime¥":¥"2020/01/01 01:01:01¥",
⑤Event information	Specify in list format Example) [¥“2¥",¥“foo¥"]

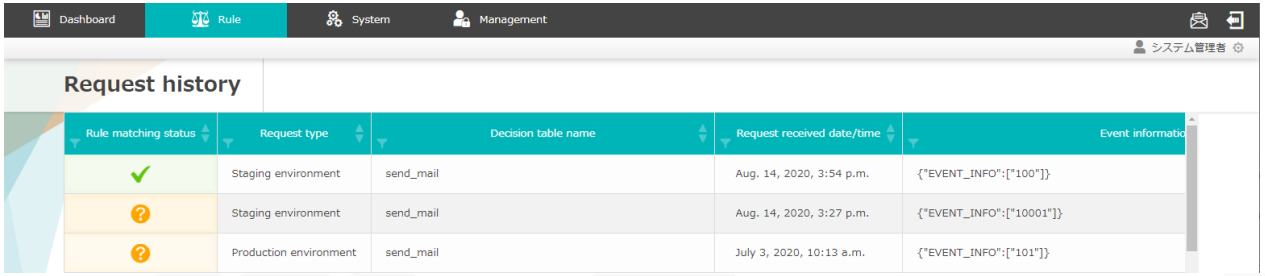


POINT Please refer to <RestAPI Function Intstruction Manual> for the details of HTTP request.

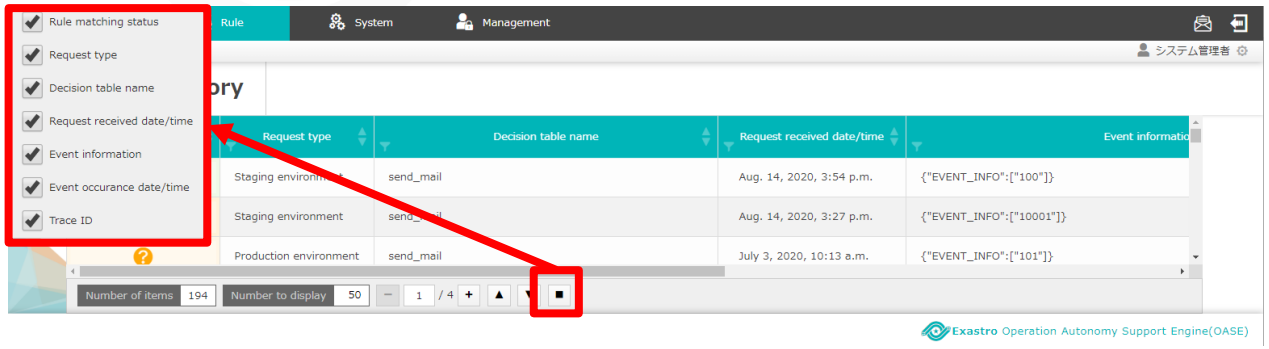
4.1 Send request via curl command (2/2)

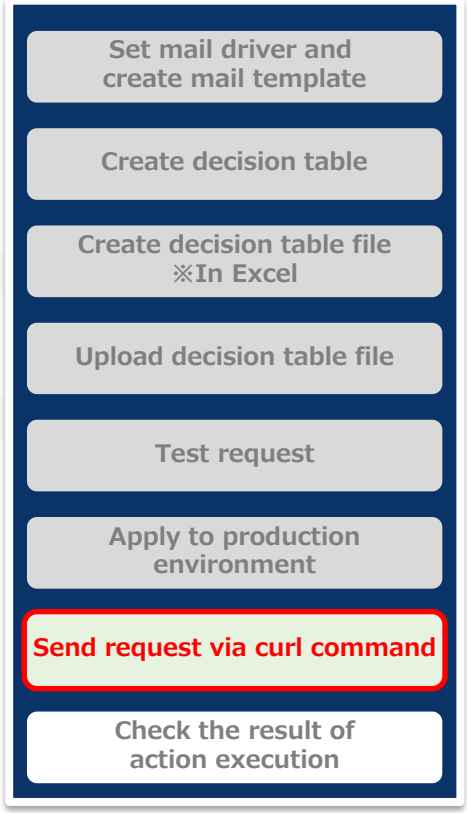
Check the “request history” screen

- A history of sending a request by specifying parameters with the curl command is added.



※Items displayed in the “Request history” screen can be changed.





4.2 Check the result of action execution (action history)

Execute action

- When rule is matched, action(mail notification) will be executed as users set in preparation before execution, and users can check the result in “Action history” screen.
- Action will be executed as the specification in the action part of

<3.3 Create decision table file ※In Excel >
(mail Driver will sent notification mail as user’s specification)

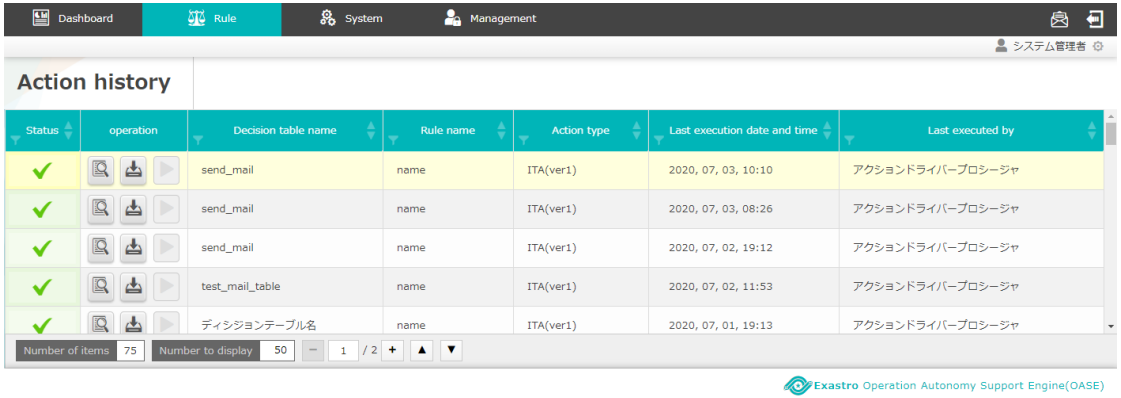
Mail notification

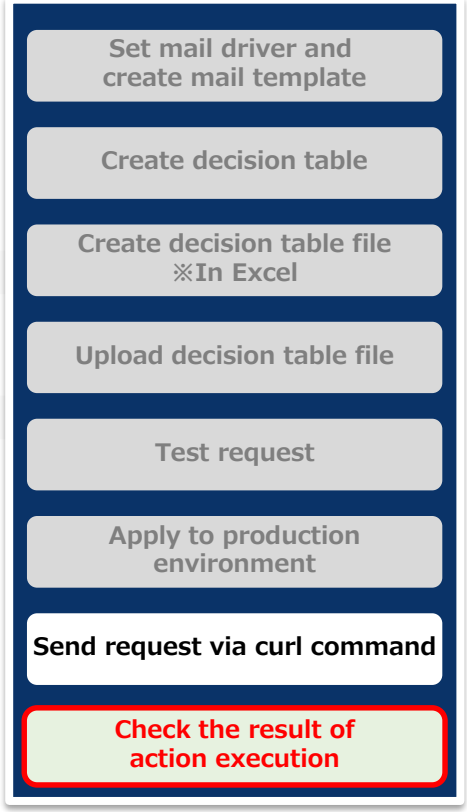
- Mail with the receiver, title, body set in

<3.1 Set mail driver and create mail template> is sent.

Action history

- Check if the rules are matched and executed are displayed in “Action history” screen.





A Appendix

Sample 1 (1/3)

Enter the sample value and execute OASE

- Case: When OASE receive “MessageID: 10001”, execute a action to send a mail with information “Title:【OASE】Notification test”, “Body:[Request Info][Event Info]”

【Preparation before execution】

①「Action settings」 screen

Prepare action target driver 「mail Driver ver1」

・Name	:	oasetest
(Register other required info)		

Create the “Mail template” required when using mail template

・Template name	:	test_template
・Title	:	【OASE】Notification test
・Body	:	[ACTION_INFO] [EVENT_INFO]
(Register other required info)		

②「Decision table」screen

Create the rule to match「message ID」

・Rule type	:	Matching test
・RuleTable	:	test
・Condition name	:	message ID
・Conditional expression	:	equal(value)

POINT

The part introduced in<3.1 Set mail driver and create mail template> and <3.2 Create decision table> in this manual

Sample 1 (2/3)

③「Decision table」file

Create a rule that "messageID:10001" will hit

・MessageID（equal(value)）	:	10001
・Action type	:	mail(ver1)
・Action parameter information	:	MAIL_NAME=oasetest,MAIL_TO=,MAIL_CC=,MAIL_BCC=,MAIL_TEMPLATE=test_template
（Register other required information）		

④「Rule（Rule applying to staging environment

Upload the created decision table file

・Select file	:	test.xlsx

⑤「Test request」screen

Test whether when request "MessageID:10001" matches the uploaded decision table or not

・Select rule type	:	Matching test
・MessageID	:	10001

POINT

The part introduced in<3.3 Create decision table file>, <3.4　Upload decision table file>, <3.5　Test request> in this manual

Sample 1 (3/3)

【Execute operation】

⑥Terminal operation （For Linux server）

Send request to the prepared rule via curl command
※Please change the part in red highlight

```
curl -X POST -k "https://<HostName>/oase_web/event/event/eventsrequest" -H "accept: application/json" -d "{¥"ruletable¥":¥"test¥",¥"requesttype¥":¥"1¥",¥"eventdatetime¥":¥"2020/01/01 01:01:01¥",¥"eventinfo¥":[¥“10001¥"]}"
```

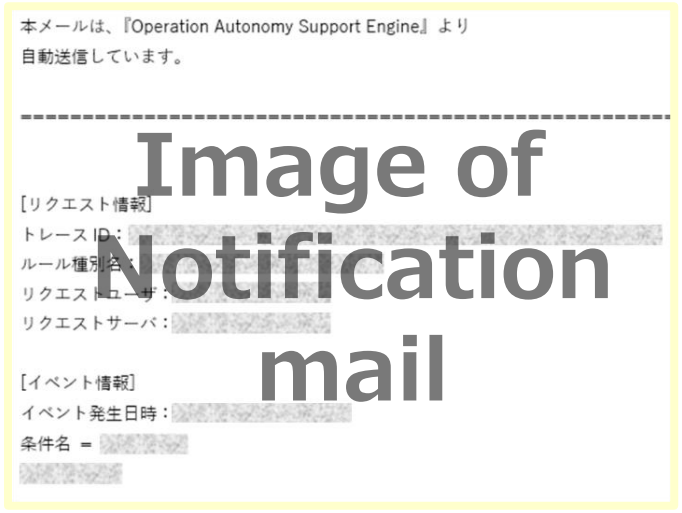
⑦Mail notification

Check if the mail with information on the right is sent.

Title : 【OASE】Notification test
Body :

[Request information]
Trace ID :
Rule type name :
Request user :
Request server :

[Event information]
Event occurance date time :
Condition name :



POINT

The part introduced in<4.1 Send request via curl command>
and <4.2 Check the result of action execution (action history)>
in this manual

Exastro