



ITA_User_Instruction_Manual

Management console

— Version 1.6 —

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Introduction

This document describes the overview and instructions of the management console in ITA system.

1 ITA system Overview of management console

This chapter explains the management console which is required for ITA operating

1.1 About the ITA management console

Register/Update/Delete of ITA user (account) or execution permission of operation menu is performed in ITA management console.

Also, excluding the default menu in ITA, when the operation department manages their own database on ITA, it's possible to make individual menus that meets their management level.

When registering/updating/deleting individual menu, please contact the product support.

Table 1.1-1 Web contents menu/screen list

| No | Menu group | Menu-Screen |
|----|-----------------------|--|
| 1 | Common section | Login screen |
| 2 | | Password changing screen |
| 3 | | Logout screen |
| 4 | ITA management screen | Main menu |
| 5 | | System settings |
| 6 | | Menu group list |
| 7 | | Menu list |
| 8 | | Role list |
| 9 | | User list |
| 10 | | Role/Menu link list |
| 11 | | Role/User link list |
| 12 | | Sequence list |
| 13 | | SSO Basic preference |
| 14 | | SSO Attribute preference |
| 15 | | ITA version check |
| 16 | | IP address filter list (hidden on default) |
| 17 | | Operation delete list (hidden on default) |
| 18 | | File delete list (hidden on default) |

1.1.1 Screen description Login, password registration

(1) Login screen

If the ITA system menu screen is accessed without login, "Login screen" will display.



Figure 1.1-1 login screen of ITA

Please login with the following login ID and password after installing ITA system.

Login ID : administrator

Default password : password

Screen will be redirected to the "Password changing screen" when login for the first time after installation.

(2) Change password

Logged-in user can change their password at any time.

Please click the "Change password" button on the top-right of each menu screen to move to the "Change password" screen and change the password.



Figure 1.1-2 "Change password" screen of ITA

(3) Logout screen (login again)

Click the "Logout" button at the top-right of each menu screen to log out of the system.

Click the displayed "Login again" link to move to the login screen.



Figure 1.1-3 logout screen of ITA

1.1.2 Screen description main menu

Widgets are displayed in the main menu.

Users can individually customize the contents and arrangement of the Widget.

⑥ ~ ⑧ are not displayed by default.

(1) Screen configuration

Widget 1~5 are displayed by default.

① Menu group

Each menu group's panel is displayed.

Users can move to the specified menu group by clicking the menu group's respective panel. Only the installed drivers will be displayed.

It is not possible to delete the main menu widget.

② Movement

Displays a graph summarizing the number of Movements registered in each Orchestration.

③ Work status

A pie chart displaying the number of Conductor and Symphony work status for each status.

④ Operation result

Displays a pie chart that shows the number of cases for each Conductor and Symphony operation status.

⑤ History

A bar chart displaying the daily results of Conductor and Symphony work history.

⑥ Menu set

Users can create a set of menu groups separately from the main menu.

⑦ Link

Users can create a list of links.

⑧ Image

Paste the image

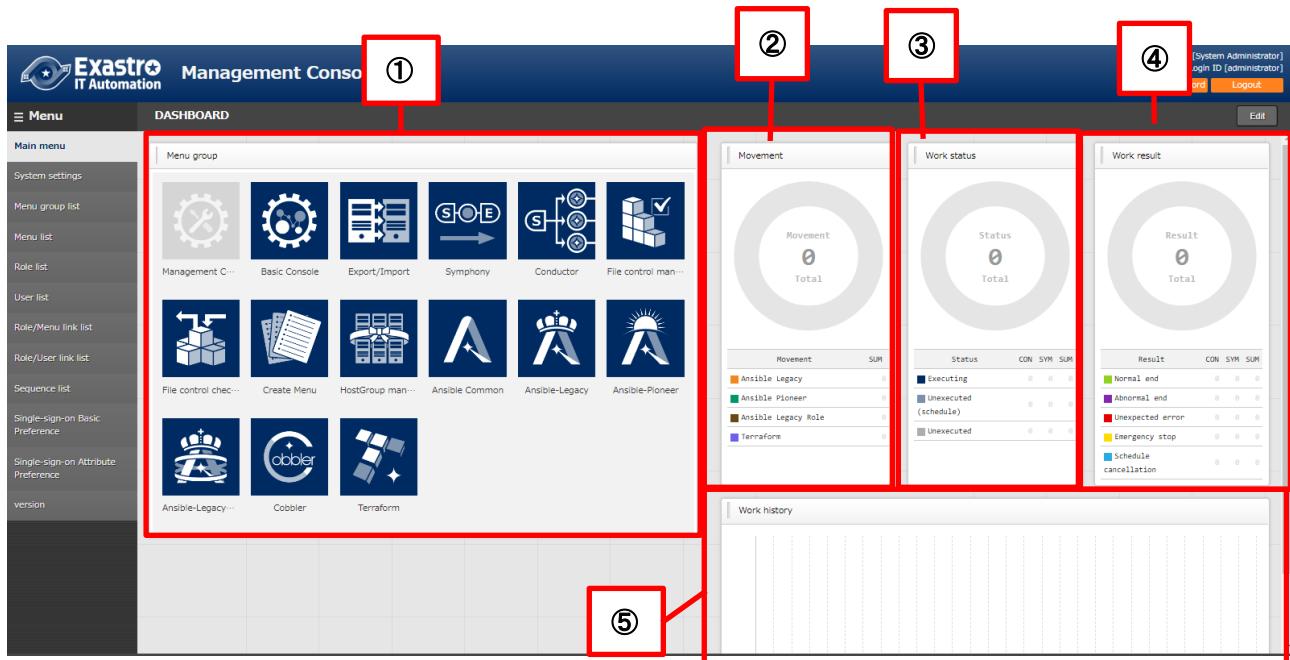


Figure 1.1-4 Main menu screen

(2) Edit Widget

⑨ Move to edit mode

Press the edit button at the top of the screen to go into edit mode and edit widgets.

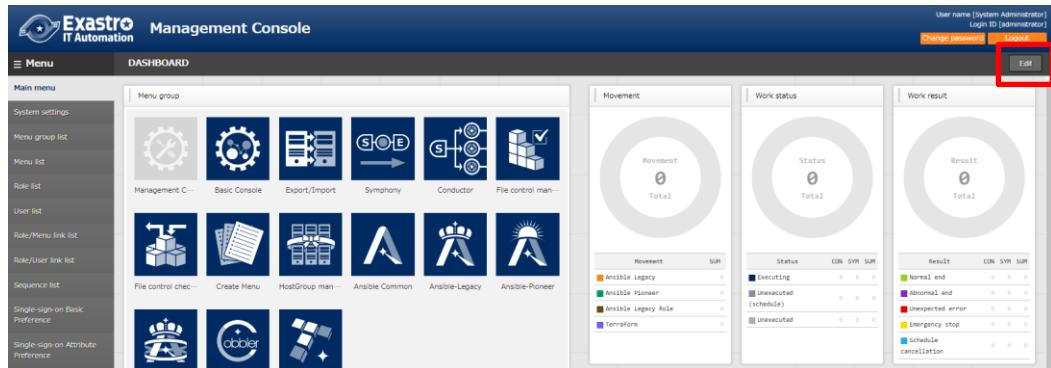


Figure 1.1-5 Main menu screen edit button

⑩ Add Widget

1. Place the cursor where you want to add the widget and then add blank in the DASHBOARD. Hover over or under an existing Widget to reveal the add button.

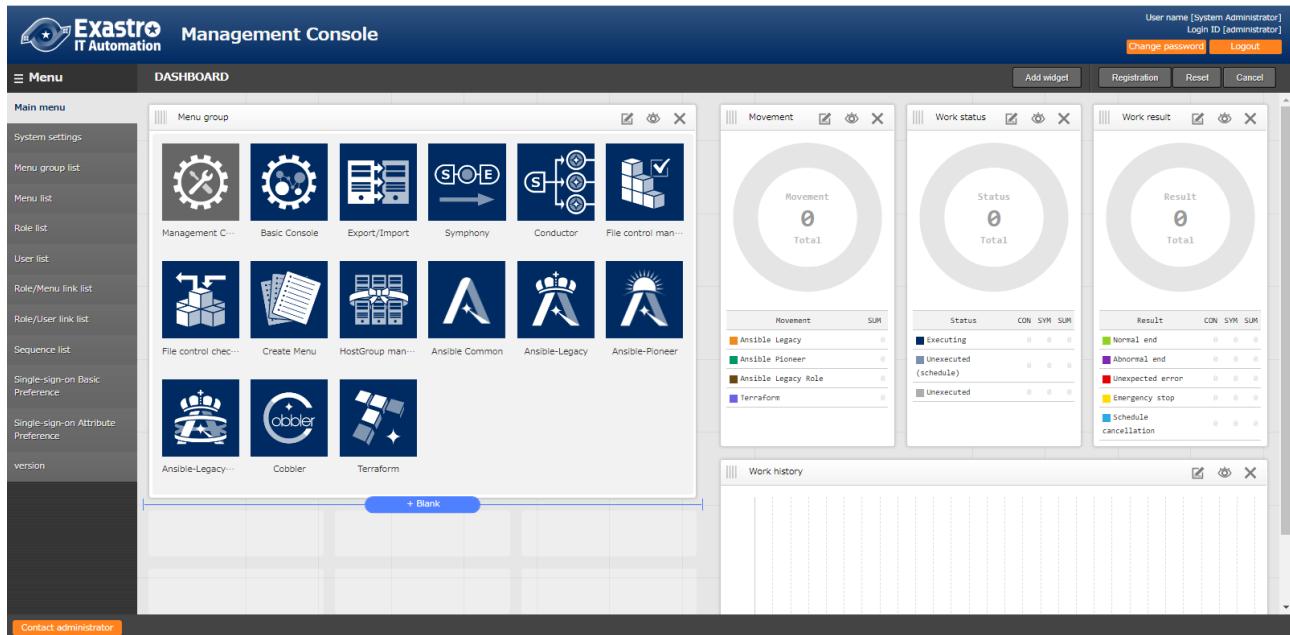


Figure 1.1-6 Main menu screen blank addition

2. Press the Add Widget button.



Figure 1.1-7 Main menu screen blank addition button

- Check the name of the button.
- If it has no name, "Decision button" will do.

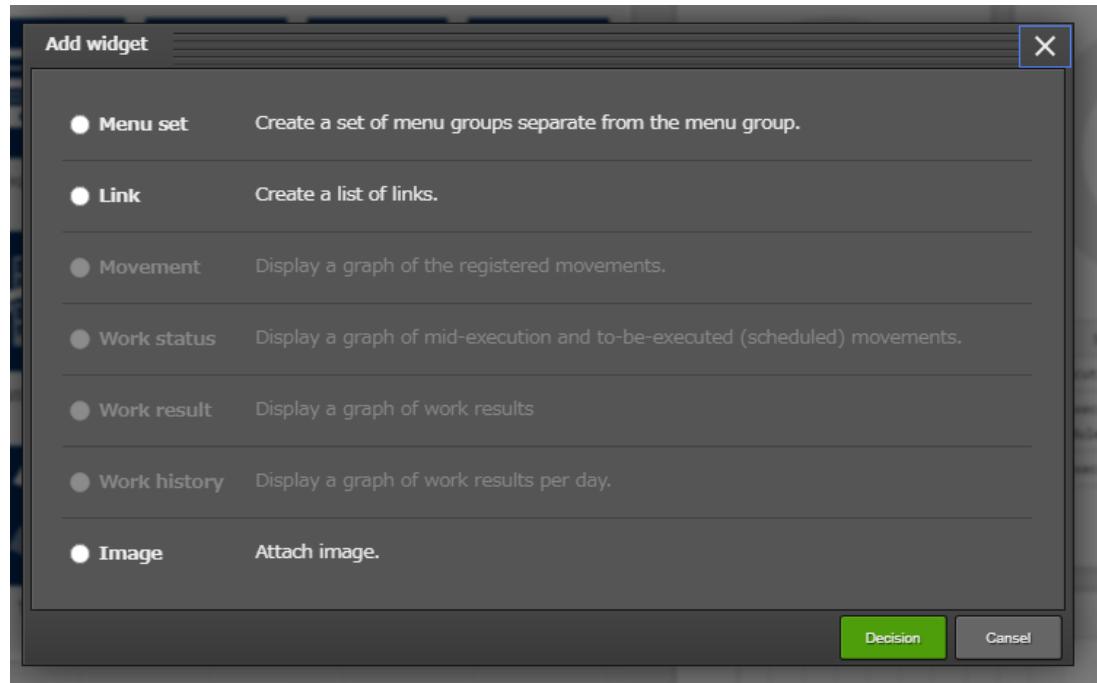


Figure 1.1-8 Main menu screen addition Widget select screen

⑪ Edit button

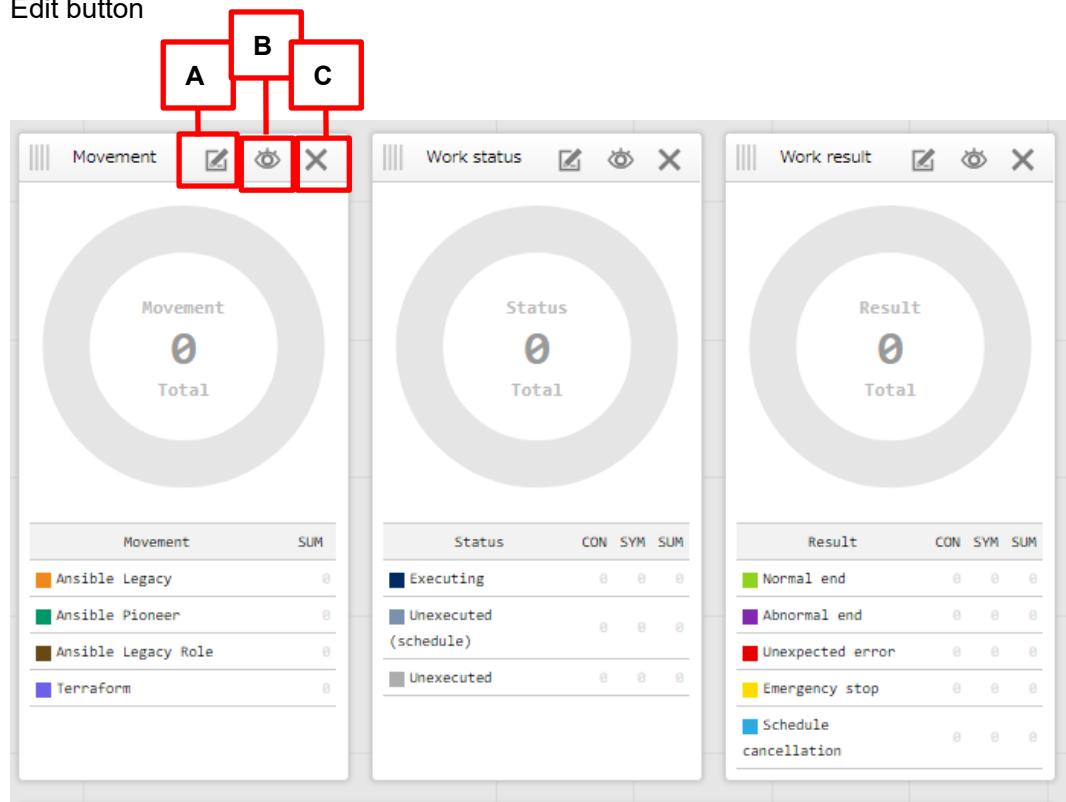


Figure 1.1-9 each buttons in Widget

A Edit button

Users can edit the contents of the Widget.

-Main group, Movement, Work status, Work result, Work history

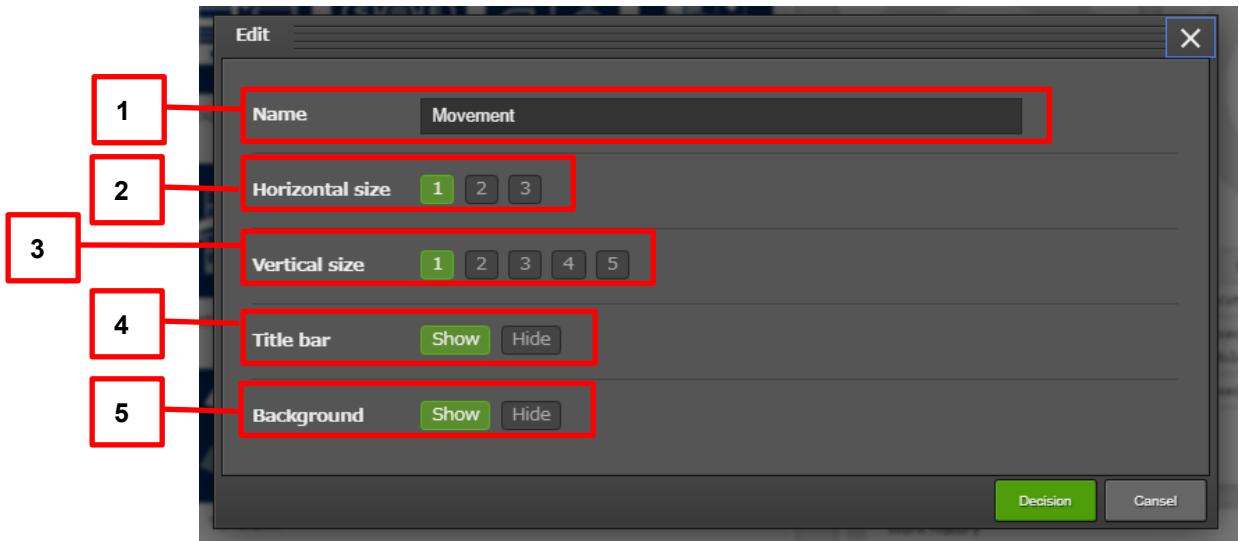


Figure 1.1-10 Widget edit button

1. Name
Change the Widget name.
2. Horizontal size
Change the horizontal size of the Widget.
3. Vertical size
Change the vertical size of the Widget.
4. Title bar
Change the show and hidden of widget title bars.
5. Back ground
Change the show and hidden of frame/background.

-Menu set

Users can move panels in a menu group by dragging and dropping them.

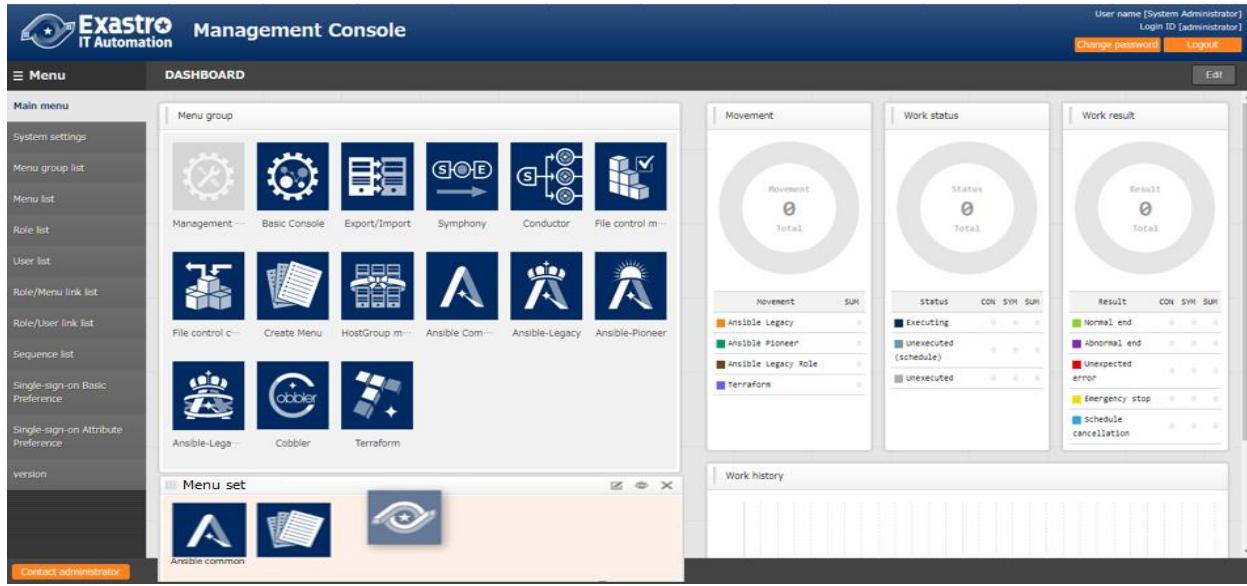


Figure 1.1-11 Menu set

➤ Link

Create a collection of links.

- Name

Link name.

- URL

The URL to link.

- Target

Users can specify the “a” tag target.

Example: _blank, _parent etc.

| Name | URL | Target |
|-----------------------|---------------------|--------|
| My blog favorite page | http://myblog.com | blank |
| | http://favorite.com | self |
| | http://another.com | self |

Figure 1.1-12 Widget link

➤ **Image**

User can paste an image with a link.

- **Image URL**
Set image with URL.
- **Link URL**
Set the link destination when the image is clicked.
- **Link Target**
Set the behavior when the image is clicked.

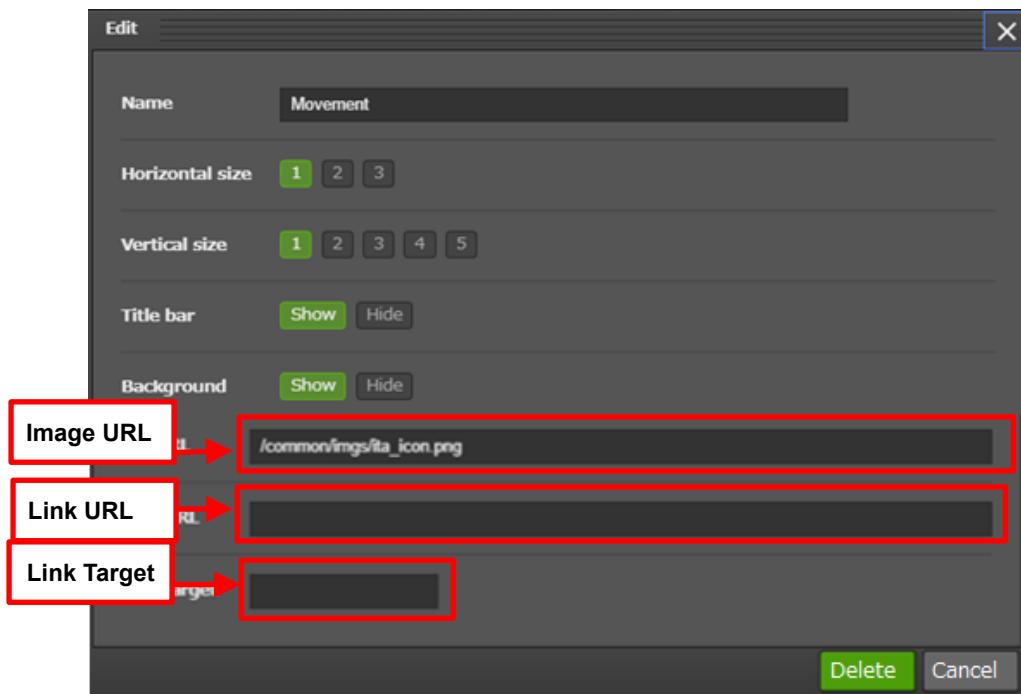


Figure 1.1-13 Widget image

B Hide button

Choose to show/hide Widget.

C Deletes button

Delete Widget.

⑫ Widget registration

Press the register button to save the edited Widget.



Figure 1.1-14 Widget registration button

⑬ Others

- Discard the edited contents ... Press the cancel button.
- Return Widget configuration to default ... Press the reset button.

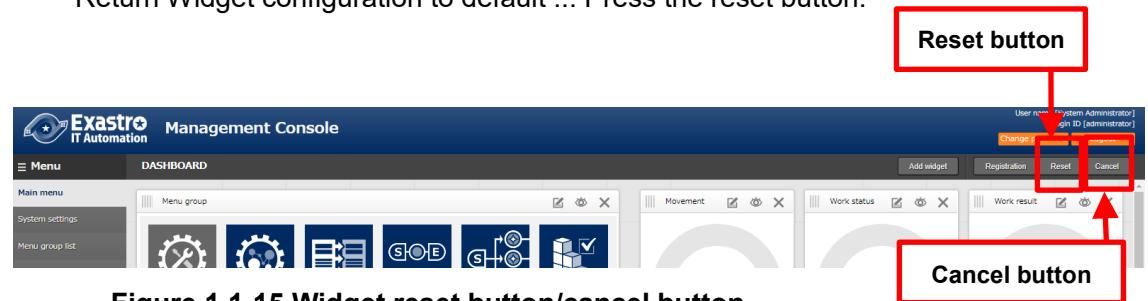


Figure 1.1-15 Widget reset button/cancel button

1.1.3 Screen description Basic screen configuration

Each menu screen provided in ITA system is basically configured with same elements. The configuration is as below.

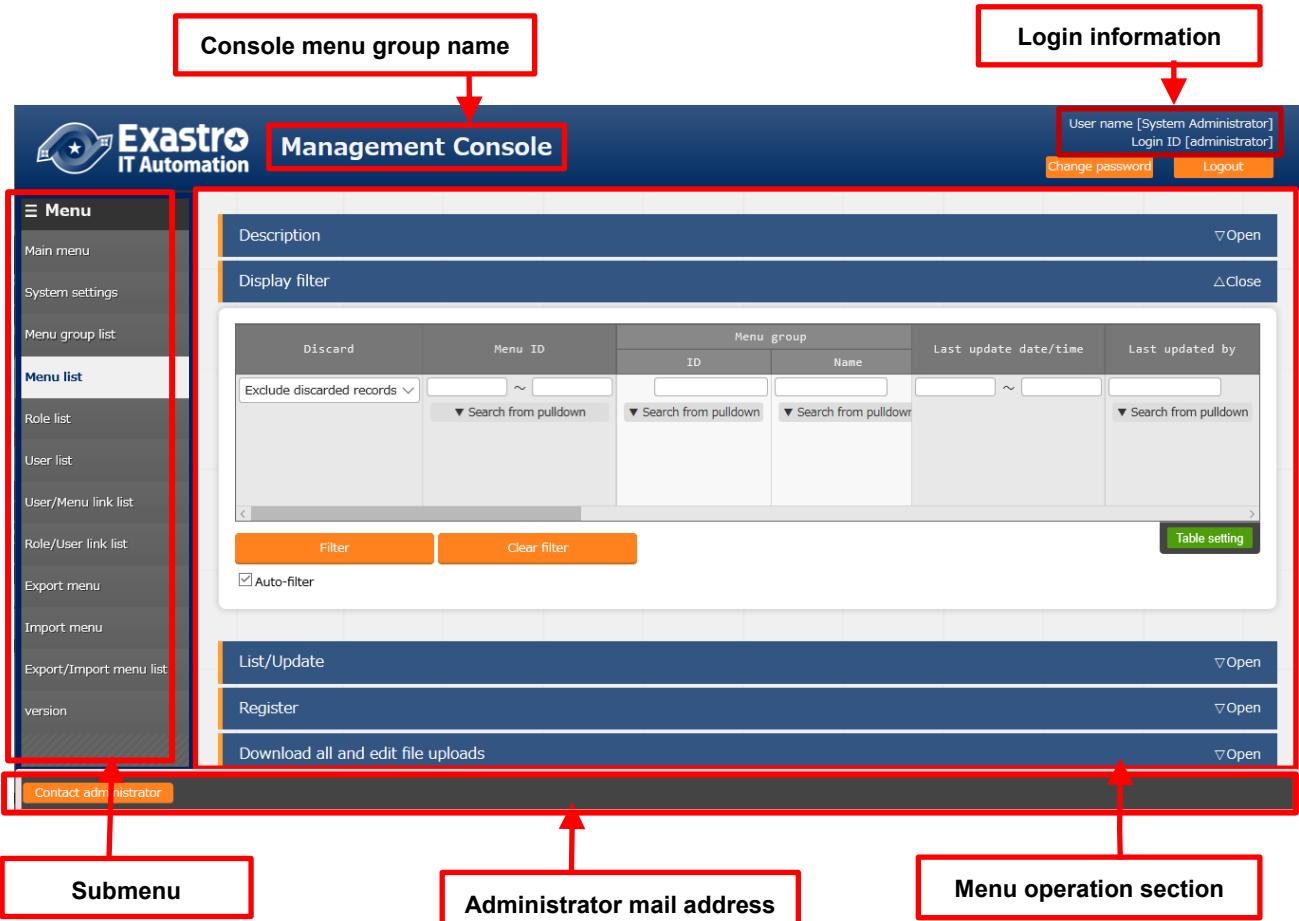


Figure 1.1-16 screen configuration

Table 1.1-2 Screen configuration list

| No | Screen name | Description |
|----|-------------------------|--|
| 1 | Console menu group name | The group name which each submenu belongs to. The name of menu group displayed on the screen is displayed. |
| 2 | Submenu | The menu that can be operated/displayed in current console menu is displayed in a list. |
| 3 | Menu operation section | The section that users can perform registration and setting corresponding to each menu. ※Details are described later. |
| 4 | Login information | The account name logged in currently is displayed. Users can change their password or log out. |
| 5 | System administrator | The link of the system administrator's email address. |

1.1.4 Screen description the method to operate operation section

This section describes the method to operate the elements of each menu operation section

(1) Register filter

Specify the search criteria which is for displaying the item registered in each menu.

The search criteria and items are different in each menu. Only common function is described here.

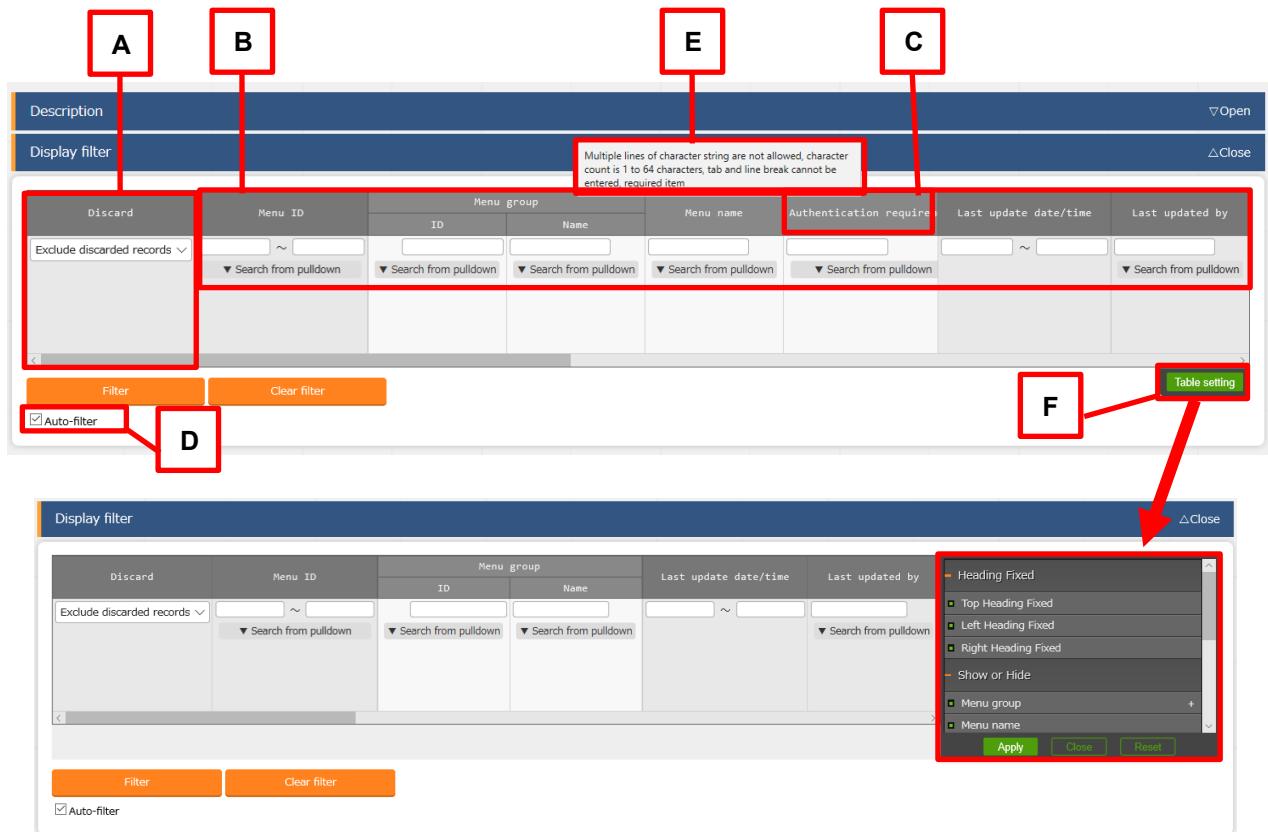


Figure 1.1-17 Display filter screen

- A. Discard column
 - "Exclude discarded records" is set on default.
 - "All records", "Only discarded records" can be selected freely, specify the desired display method. **Either one of them is required to be selected.**
- B. Search criteria
 - Specify the search criteria.
 - For items like system name and remarks that can be specified in characters, results displayed can be filtered with "ambiguous search" or "pull-down menu search".
- C. Access permission
 - For more information about access permission, please refer to "ITA_User_Instruction_Manual_Role-based Access Control".

D. Auto-filter

- By checking “Auto filter”, the list of result that meets the search criteria will be displayed automatically once any of the search criteria is selected
- It is possible to set if the “Auto filter” is checked when entering the screen in “Auto filter check” of “Menu list” in the Management console.

E. Column description

- The description of the column is displayed when hovering the mouse cursor over the column.

F. Table setting

- Switching the show/hidden state of table items and set the section to be fixed when scrolling the table.
- Table setting can be performed in Display filter, List/Update, and Trace history.
※The details of the function is described in “(7) Table setting”.

(2) List/Update

The list of the items that meets the search criteria is displayed.

The screenshot shows the 'List/Update' screen with a table of menu items. The table columns include: Update, Discard, Menu ID, Menu group ID, Menu group name, Display order, Image for panel, Menu information, Access permission, Remarks, Last update date/time, and Last updated by. Red boxes highlight specific areas: Box A points to the 'Filter' and 'Clear filter' buttons at the bottom left; Box B points to the 'Update' and 'Discard' buttons for each row; Box C points to the 'Access permission' column header; Box D points to the 'Role to allow access' dropdown in the same row as Box C. A large red arrow points down from this screen to the 'List/Update (Update)' screen.

| Update | Discard | Menu ID | Menu group ID | Menu group name | Display order | Image for panel | Menu information | Access permission | Remarks | Last update date/time | Last updated by |
|--------|---------|---------------|---------------|--------------------|---------------|-----------------|------------------|----------------------|---------|-----------------------|----------------------|
| Update | Discard | 2,100,000,001 | 2100000001 | Symphony | 26 | | Menu Information | Role to allow access | | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,000,001 | 2100000002 | Conductor | 27 | | Menu Information | Role to allow access | | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,000,001 | 2100000003 | Terraform | 160 | | Menu Information | Role to allow access | | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,030,001 | 100 | Cobbler | 110 | | Menu Information | Role to allow access | | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,020,003 | 100 | Ansible-LegacyRole | 100 | | Menu Information | Role to allow access | | 2015/04/01 10:00:00 | System Administrator |

Figure 1.1-18 List/Update (List) screen

The screenshot shows the 'List/Update' screen with a table having a single row. The table columns include: Menu ID, Image for Web display, Line count for confirmation before Web display, Maximum line count for Excel output, Access permission, Remarks, Last update date/time, and Last updated by. Red boxes highlight specific areas: Box B points to the 'Back' and 'Update' buttons at the bottom left; Box C points to the 'Access permission' column header; Box D points to the 'Setting' button in the same row as Box C. A red arrow points up from this screen to the 'List/Update (List)' screen.

| Menu ID | Image for Web display | Line count for confirmation before Web display | Maximum line count for Excel output | Access permission | Remarks | Last update date/time | Last updated by |
|------------|-----------------------|--|-------------------------------------|-------------------|----------------------|-----------------------|-----------------|
| 2100000101 | | | | Setting | Role to allow access | Cannot discard | Auto-Input |

Figure 1.1-19 List/Update (Update) screen

A. Filter

- By entering the search criteria and pressing the Enter key or clicking the “Filter button”, the registered information will be displayed in “List/Update” submenu.

B. Update

- Move to the update screen by clicking the “Update button” of each item.
- Update the information and click the “Update” button to finish update.

C. Discard

- Click the “Discard” button to move to the discard screen.
- Click the “Discard” button to disable the registered information.

※Disabled information can be restored.

Select “Only discarded records” to display the information. Click the “Restore” button, then the information will become available.

D. Access permission

For more information about access permission, please refer to
“ITA_User_Instruction_Manual_Role-based Access Control”.

(3) Register

Register new items to each menu.

The registration content differs from each menu, so please refer to each user instruction manual.

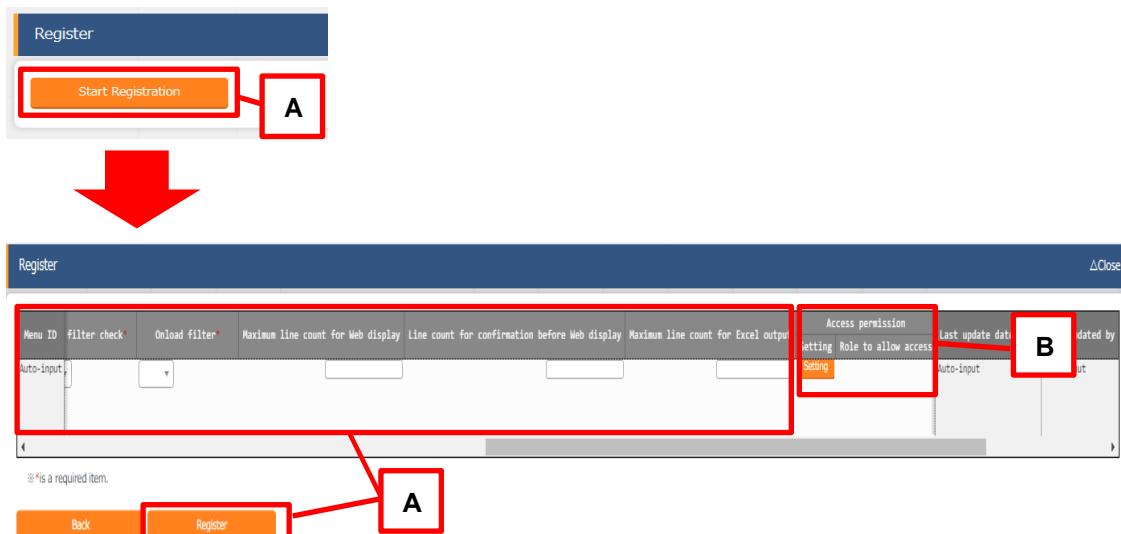


Figure 1.1-20 Register (one in a time) screen

A. Register

- Open the “Register” submenu and click the “Start Registration” button to display the registration form. Enter the required information then click the “Register” button.

B. Access permission

For more information about access permission, please refer to
“ITA_User_Instruction_Manual_Role-based Access Control”.

(4) Download all and edit file uploads

The information register in each menu screen can be downloaded together at once in Excel format. In addition, registering information together at once with the file in same format is also possible.

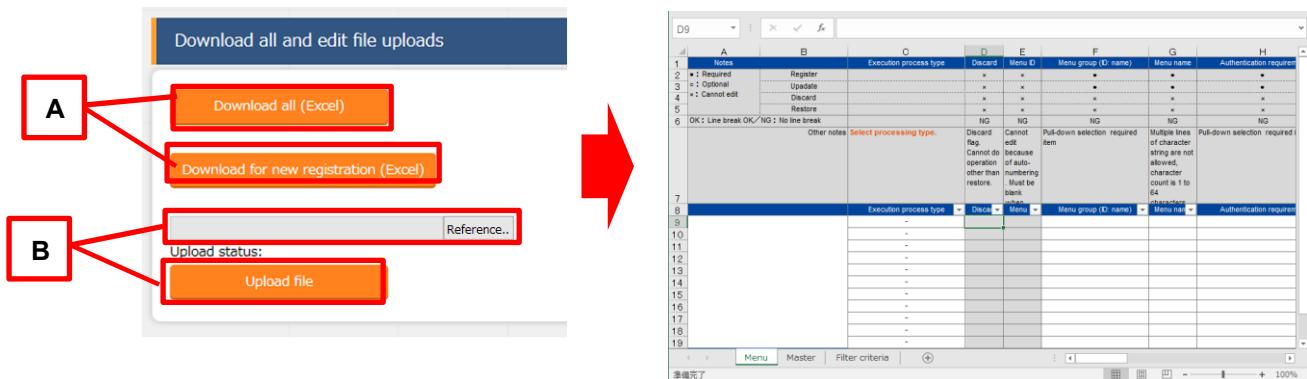


Figure 1.1-21 Register(all) screen

A Download all, Download for new registration

- By clicking Download all, users can download the item list registered in each menu in excel format.
- By clicking “Download for new registration”, users can download the Excel sheet which is for new registrations corresponding to each menu.

B Upload file

- Edit the Excel file downloaded in Download all, Download for new registration of A, upload and register the information at once in here.
- Please click “Choose file” to specify the file and click “Upload file”.

(5) Trace history

The change history of the item registered in each menu can be displayed here.



Figure 1.1-22 Trace history screen

- By specifying “Management system ID”, the primary key of each menu, to system ID, the change history of the corresponding item will be displayed.
- The information is displayed in the order of latest update/time in list, and content changed from the previous time is displayed in blue bold characters.

(6) About entering item with pull-down menu

The specification of the item that can be selected from pull-down menu during registration/update is as follows.

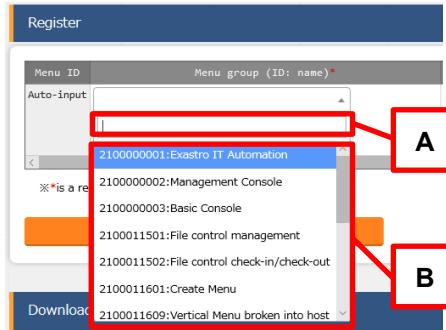


Figure 1.1-23 Entering item via pull-down menu

- A. Search windows is displayed. Users can narrow down items by entering the phrases that they want to search for. The search is partial match search, uppercase/lowercase and full-width/half-width characters are case-insensitive.
- B. The item for selection are displayed.

(7) Table setting

- Switching the show/hidden state of table items and set the section to be fixed when scrolling the table.
- Table setting can be performed in Display filter, List/Update, and Trace history submenu.
- Since settings of table are saved in the local storage of web browser, settings are based on each web browser.

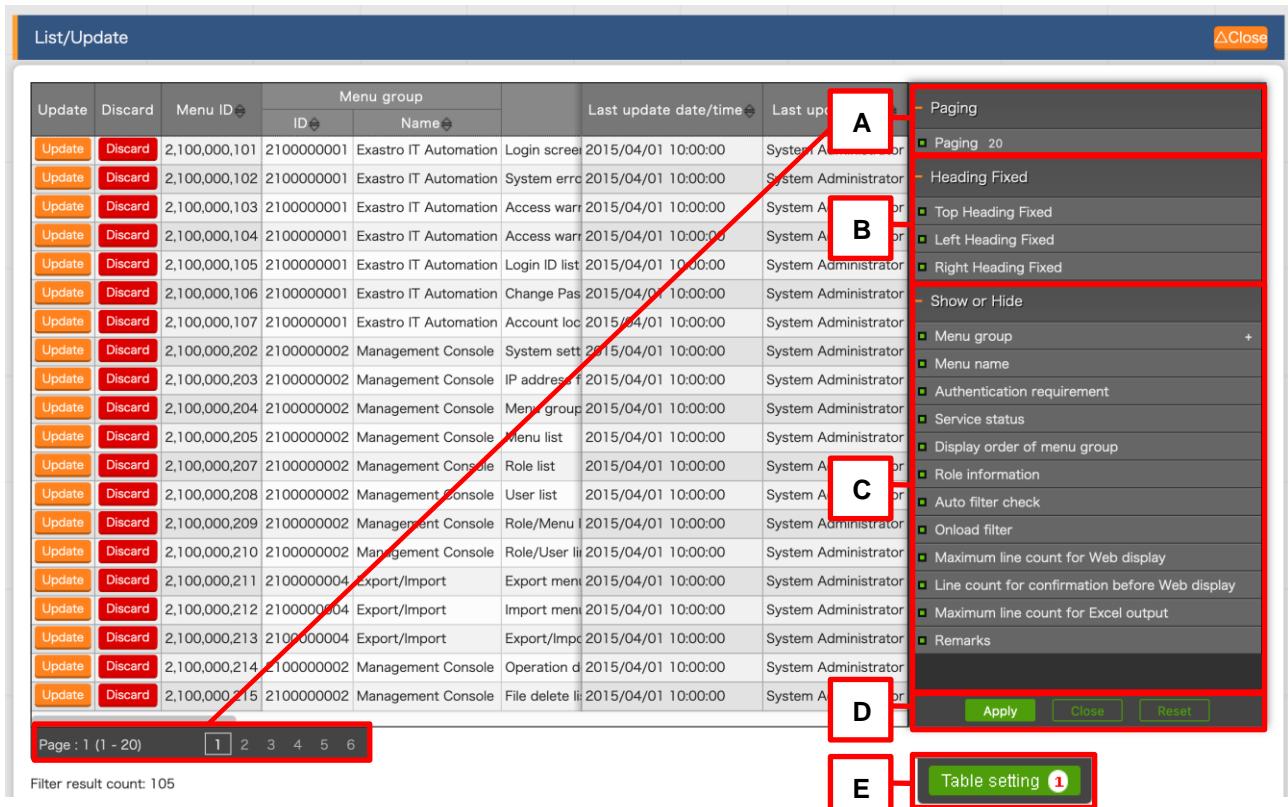


Figure 1.1-24 Display of table setting menu (List/Update)

A. Paging

- The paging function will display on the bottom of List if selected.
- It is possible to change the max display count in single page by changing the value.

B. Heading Fixed

- Set the fixed part when scrolling the table.
- All heading are set to fixed on default.
- The description of each heading are as bellows.

Top Heading Fixed ··· The item name on the top of table.

Left Heading Fixed ··· "Update", "Discard", and unique items(e.g. Menu ID in "Menu list" menu) on the left of the table.

Right Heading Fixed ··· "Last update date/time" and "Last updated by" column on the right of table.

C. Show or Hide

- Set the show/hidden state of the selected item.
- All items are set to be displayed on default.

D. Button

- The setting execution button and menu.
- The state of the selected/unselected items will be reflected to the setting when clicking the Apply button.
- The table setting menu will close when clicking the Close button.
- All selected/unselected items will return to the default state when clicking the Reset button.

E. Display of the hidden item count.

- The number of the hidden items in "Show or Hide" is displayed.
- The number will not display if all items are displayed.

(8) Fixed header setting

Users can fix and un-unfixed the header by pressing the icon on the left in the footer.

The screenshot shows the Exastro Management Console interface. A red box highlights the 'Header' section in the top-left corner of the main content area. Below it, another red box highlights the icon in the footer bar, which is used to fix or unfix the header.

| Discard | Item No. | ID | Item name | Setting value | Access Role to | Last update date/time | Last updated by |
|---------------------------|---|----------------------|----------------------|----------------------|----------------------|---|----------------------|
| Exclude discarded records | <input type="text"/> ~ <input type="text"/> | <input type="text"/> ~ <input type="text"/> | <input type="text"/> |

Filter Clear filter Auto-filter

| Update | Discard | Item No. | ID | Item name | Setting value | Last update date/time | Last updated by |
|--------|---------|---------------|------------------|------------------------------|---|-----------------------|----------------------|
| Update | Discard | 2,100,000,001 | IP_FILTER | IP address restrictions | | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,000,002 | FORBIDDEN_UPLOAD | Upload prohibition extension | .exe;.com;.php;.cgi;.sh;.sql;.vbs;.js;.ini;.m | 2015/04/01 10:00:00 | System Administrator |

Contact administrator

Figure 1.1-25 Header fixe Icon

(9) Submenu initial state setting

Users can set the initial state of opening and closing of the sub menus by pressing the icon on the right side of the footer.

The screenshot shows the Exastro Management Console interface. A red box highlights the icon in the footer bar, which is used to set the initial state of sub-menus. This icon is identical to the one shown in Figure 1.1-25.

| Discard | Item No. | ID | Item name | Setting value | Access Role to | Last update date/time | Last updated by |
|---------------------------|---|----------------------|----------------------|----------------------|----------------------|---|----------------------|
| Exclude discarded records | <input type="text"/> ~ <input type="text"/> | <input type="text"/> ~ <input type="text"/> | <input type="text"/> |

Filter Clear filter Auto-filter

| Update | Discard | Item No. | ID | Item name | Setting value | Last update date/time | Last updated by |
|--------|---------|---------------|------------------|------------------------------|---|-----------------------|----------------------|
| Update | Discard | 2,100,000,001 | IP_FILTER | IP address restrictions | | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,000,002 | FORBIDDEN_UPLOAD | Upload prohibition extension | .exe;.com;.php;.cgi;.sh;.sql;.vbs;.js;.ini;.m | 2015/04/01 10:00:00 | System Administrator |

Contact administrator

Figure 1.1-26 Initial state setting icon

The selected sub-menu will be set to be open in advance when the menu is accessed. (The default setting is to open the menu by default)

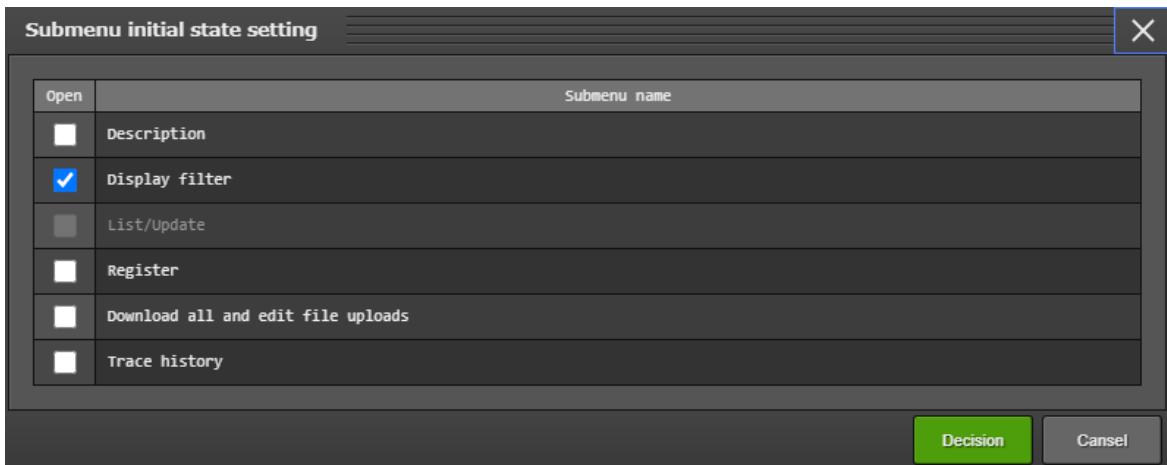


Figure 1.1-27 Sub menu initial state setting screen

(10) System settings

Register/Update/Discard information that should be set when installing or operating the ITA system.

[Note]

The “System settings” in the submenu is a menu for the product support, so please don’t use the menu.

If the setting is changed, the behavior of ITA is not guaranteed.

| Update | Discard | Item No. | ID | Item name | Last update date/time | Last updated by |
|--------|---------|---------------|------------------|---|-----------------------|----------------------|
| Update | Discard | 2,100,000,001 | IP_FILTER | IP address restrictions | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,000,002 | FORBIDDEN_UPLOAD | Upload prohibition extension .exe;.com;.php;.cgi | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,000,003 | PWL_EXPIRY | Account lock duration (seconds) | 0 | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,004 | PWL_THRESHOLD | Password error threshold (frequency) | 3 | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,005 | PWL_COUNT_MAX | Password error count upper limit (frequency) | 5 | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,006 | PWL_REUSE_FORBID | Password re-registration prevention period (days) | 180 | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,007 | PASSWORD_EXPIRY | Password validity period (days) | 0 | 2020/01/28 10:59:11 |
| Update | Discard | 2,100,000,008 | AUTH_IDLE_EXPIRY | Authentication duration: Not operated (seconds) | 3600 | 2015/04/01 10:00:00 |

Figure 1.1-28 Management console screen

① Screen design selection

By changing the setting value of the item “Screen design selection” to desired value, users can change the screen design of ITA for each system.

Setting values to enter and their corresponding screen design is as follows.

| Setting value | Screen design |
|---------------|---|
| default | Default design based on blue. |
| red | A design based on blue. |
| green | A design based on green. |
| blue | A design based on blue. |
| orange | A design based on orange. |
| yellow | A design based on yellow. |
| purple | A design based on purple. |
| brown | A design based on brown. |
| gray | A design based on gray. |
| cool | A design based on cool colors. |
| cute | A design based on pink. |
| natural | A design with the image of nature. |
| gorgeous | A gorgeous design based on black and red. |
| oase | A design with the image of Exastro OASE. |
| darkmode | A dark design that fits night. |

※Setting value can be changed only by inputting exactly matched values.

default will be set if setting value is not entered or the entry is wrong.

【The method to change screen design】

- Click the “Update” button of item “Screen design selection” in “List/update”.
- Enter the setting value corresponding to the screen design to change in “Setting value” column then click update.

※Please don't change “ID” otherwise the behavior of ITA will not be guaranteed.

| Item No. | Setting value | Remarks | Last update date/time | Last updated by |
|------------|---------------|--|-----------------------|-----------------|
| 2100000010 | default | Screen design settings The screen design can be changed by specifying to one of the following keys. If there is no input or the setting value is incorrect, it will be automatically selected by default. default(initial design based on blue) | Auto-input | Auto-input |

Figure 1.1-29 System settings screen (Screen design selection)

(11) Menu group list

Menu (child) belongs to menu group (parent). Perform register/update/discard in this parent menu group screen. Menu group names must be **unique**.

| Update | Discard | Menu group ID | Menu group name | Display order | Image for panel | Menu informa | Last update date/time | Last updated by |
|------------------------|-------------------------|---------------|---------------------------------|---------------|--------------------------------------|--------------|-----------------------|----------------------|
| Update | Discard | 2,100,000,001 | Exastro IT Automation | | kanri.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,000,002 | Management Console | 10 | kihon.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,000,003 | Basic Console | 20 | sizai_kanri.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,011,501 | File control management | 30 | sizai_harai.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,011,502 | File control check-in/check-out | 40 | sheet.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,011,601 | Create Menu | 51 | host_group.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,011,701 | Vertical Menu broken into host | 59 | anscmn.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,020,000 | Ansible Common | 60 | anslgc.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,020,001 | Ansible-Legacy | 68 | anspnr.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,020,002 | Ansible-Pioneer | 90 | anslr.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,020,003 | Ansible-LegacyRole | 100 | coblier.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,030,001 | Cobbler | 110 | dsc.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,060,001 | DSC | 140 | openstack.png | Menu informa | 2015/04/01 10:00:00 | System Administrator |
| Update | Discard | 2,100,070,001 | OpenStack | 150 | menu_group_list.html | Menu informa | 2015/04/01 10:00:00 | System Administrator |

Figure 1.1-30 Menu group list screen

The operation for each submenu is explained here. The operation in other menu is the same.
For performing data update operations, please log in as system administrator.

(Update/discard of registered content - update/discard/restore one data at a time)

The operation for updating/discard/restoring the menu group one by one.

- ① Display the registered information in the "List/Update" submenu.

After entering the search criteria in "Display filter", press the Enter key or click the "Filter" button.

After entering the search criteria in "Display filter", press the Enter key or click the "Filter" button.

- 1) Update the registered content -Click the "Update" button to enter the editing Mode and update the value.

- 2) Disable the item -Click the "Discard" button

- 3) Enable the disabled (discarded) item -Click the "Restore" button

- ② Click "OK" or "Cancel" when the operation checking pop-up screen display.

(Register - Register items one by one)

The operation for registering menu group one by one.

- ① Open the "Register" sub menu and click the "Start Registration" button to display the register form.
- ② Enter the "Menu group name" column and click the "Register" button.

- ※ Duplicate menu group names cannot be registered.
- ※ "Display order" is optional but the menu group will not be displayed in the main menu if left blank.
- ※ Menu groups are displayed in ascending order of "Display order". If the "Display order" is same, the menu groups are display in ascending order of "Menu group ID"
- ※ "Remarks" is optional.

The screenshot shows a registration form for a menu group. The top bar is blue with the word 'Register'. Below it is a table with columns: 'Menu group ID' (Auto-input), 'Menu group name' (highlighted with a red box), 'Display order' (highlighted with a red box), 'Image for panel' (with a '参照...' button), and 'Last update date/t' (Auto-input). At the bottom of the table is a note: '※*is a required item.' Below the table are two orange buttons: 'Back' and 'Register' (highlighted with a red box).

Figure 1.1-31 menu group list screen (Register)

(Update/discard of registered content - update/discard items all together)

The operation for registering multiple menu groups at once.

- ① Open the "Download all and edit file uploads" sub menu and download the registration sheet by clicking the "Download for new registration (Excel)" button.
- ② Enter the following items and save the file.

| | |
|------------------------|--|
| Execution process type | = select register/update/discard/restore |
| · Menu group name | = updated name |
| · Display order | = updated content |
| · Remarks | = updated content |
- ③ Press the "choose file" button to assign the file in ② and press "Upload file" to upload the file.
※ If "Execution process type" is not selected or the correct process type is not selected, registration will not be executed.

(Register - Register items all together)

The operation for registering multiple menu groups at once.

- ① Open the "Download all and edit file uploads" sub menu and download the registration sheet by clicking the "Download for new registration (Excel)" button.
- ② Enter the following items and save the file.
 - Execution process type = register
 - Menu group name = The name of new menu group name to register
 - Display order = the display order of menu group

②Select "Register" for execution process type

②Enter desired name for menu group name

②Enter desired value for display order

Figure 1.1-32 Menu group list screen

- ③ Press the “choose file” button to assign the file in ②and press "Upload file" to upload the file.

※ If "Execution process type" is other than "register" , registration will not be executed.

※ When a menu group is registered, the “Main Menu” is automatically registered under the created menu group and the menu group can be referenced by users of the “System Administrator” role.

In particular, the following menu will be registered automatically.

- "Menu list" menu
- "Role/Menu link list" menu"

【Image for panel】

“Image for panel” can be set into the “Register” submenu.

※ Only PNG files can be used for “Image for panel”. IPF files^{*1} cannot be used.

The screenshot shows a registration form titled "Register". The table has columns for "Menu group ID", "Menu group name*", "Display order", "Image for panel", "Last update date/time", and "Last updated by". The "Image for panel" column is highlighted with a red box. It contains a "Choose File" button with the message "no file selected", an orange "Upload in advance" button, and a "Upload status:" field. Below the table, a note says "※*is a required item." and there are "Back" and "Register" buttons.

Figure 1.1-33 Image for panel

Users can create image for panels in the “Panel image editor” submenu.

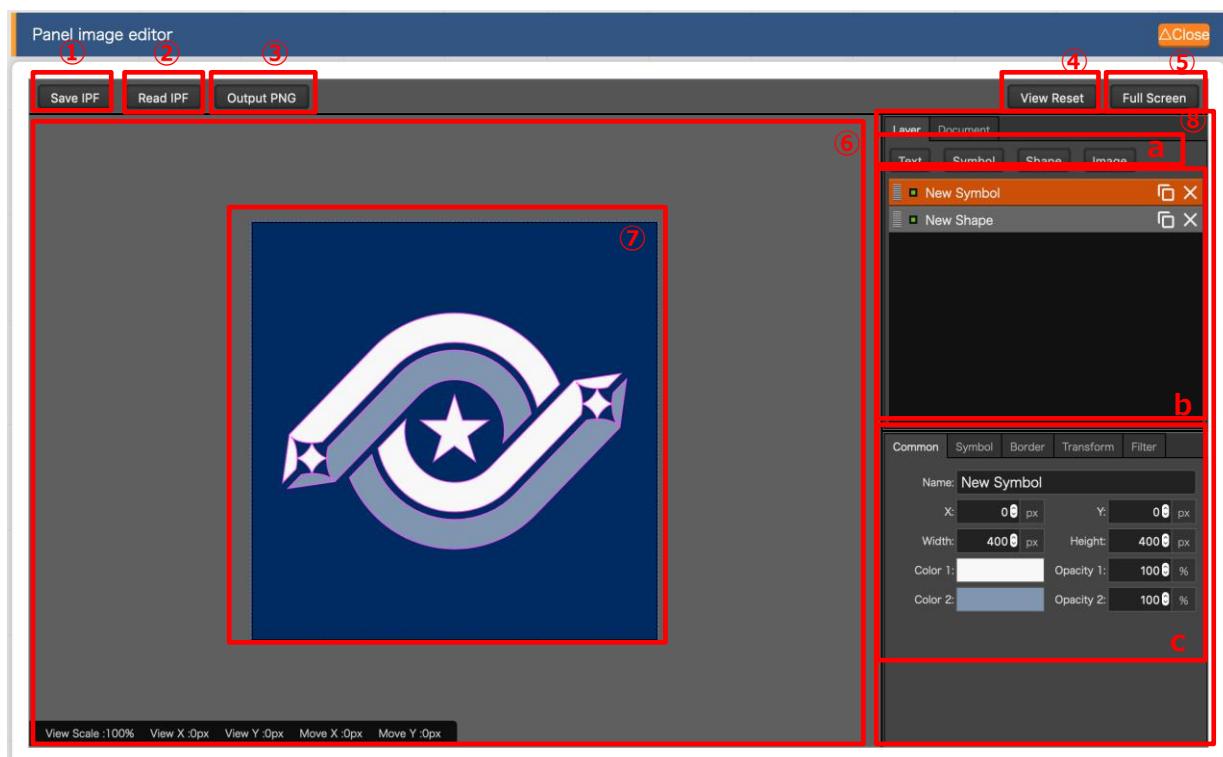


Figure 1.1-34 Panel image editor screen

【Notes】

“Panel image editor” does not support IE.

*1 A original file extension that can be edited and saved in “Panel image editor”.

- ① 「Save IPF」 button
Save the edited panel image data as a IPF compressed file.
- ② 「Read IPF」 button
Read the IPF file to canvas.
※ Users can continue editing from the state saved by "Save IPF" button.
- ③ 「Output PNG」 button
Save the panel image in the art board area edited on the canvas as PNG file.
※ Editing can't be continued.
- ④ 「View Reset」 button
Reset the position of canvas to default state.
- ⑤ 「Full Screen」 button
Display the editor in full screen.
- ⑥ Canvas
Users can move the position by drag and drop using right click.
- ⑦ Art board
The area that will be output to PNG file.
- ⑧ Detail setting function of panel image.
 - 「Layer」 tab
 - a. Users can add various layers.
 - 「Text」button : Single line text
 - 「Symbol」button : Icon
 - 「Shape」button : Basic shapes
 - 「Image」button : Image
 - b. Select the edit target and perform the following operations from the left side of the icon.
 - Swap order : Change the order of layer by drag and drop.
 - Display/hidden : Click the icon the hide/display layer.
 - Copy : Copy the selected layer.
 - Delete : Delete the selected layer.
 - c. The following setting can be applied to the various added layers.
 - ※ Items that can be edited are different for each layer.
 - 「Common」 tab : Common/main item. Users can change the color and the size
 - 「IME」 tab : (In the case that the layer is "text") IME function can be used.
 - 「Symbol」 tab : (In the case that the layer is "Symbol") Users can change the symbol.
 - 「Shape」 tab : (In the case that the layer is "Shape") Users can change the shape.
 - 「Border」 tab : The details of border can be set.
 - 「Transform」 tab : The details of size and angle can be set.
 - 「Filter」 tab : The details of various filter/effect can be set.
※ Not supported for Edge so is not displayed.

G. 「Document」 tab

Users can set the name of the created panel image as desired.

(12) Menu list

Register/update/discard of function contents is operated in this screen. The menu name must be **unique**.

- ① Check the role information / content file according to the menu.

Check the correspondence between role information and content files of function from the "list/update" submenu

| Update | Discard | Menu ID | Menu group | | Display order of menu group | Role information | Auto filter | Last update date/time |
|--------|---------|---------------|------------|-----------------------|-----------------------------|------------------|-------------|-----------------------|
| | | | ID | Name | | | | |
| Update | Discard | 2,100,000,101 | 2100000001 | Exastro IT Automation | 1 | Role information | No | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,102 | 2100000001 | Exastro IT Automation | 2 | Role information | No | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,103 | 2100000001 | Exastro IT Automation | 3 | Role information | No | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,104 | 2100000001 | Exastro IT Automation | 4 | Role information | No | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,105 | 2100000001 | Exastro IT Automation | 5 | Role information | No | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,106 | 2100000001 | Exastro IT Automation | 6 | Role information | No | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,107 | 2100000001 | Exastro IT Automation | 7 | Role information | No | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,202 | 2100000002 | Management Console | 2 | Role information | Yes | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,203 | 2100000002 | Management Console | 3 | Role information | Yes | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,204 | 2100000002 | Management Console | 4 | Role information | Yes | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,205 | 2100000002 | Management Console | 5 | Role information | Yes | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,207 | 2100000002 | Management Console | 6 | Role information | Yes | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,208 | 2100000002 | Management Console | 7 | Role information | Yes | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,209 | 2100000002 | Management Console | 8 | Role information | Yes | 2015/04/01 10:00:00 |
| Update | Discard | 2,100,000,209 | 2100000002 | Management Console | 9 | Role information | Yes | 2015/04/01 10:00:00 |

Figure 1.1-35 Menu list

| Discard | Menu ID | Menu group | Menu name | Authentication requirement | Display order of menu group | Remarks | Last update date/time | Last updated by |
|---------|-------------|------------|--------------------|----------------------------|-----------------------------|----------------|-----------------------|----------------------|
| | 21000000211 | 2100000002 | Management Console | Export menu | Required | 11_data_export | 2015/04/01 10:00:00 | System Administrator |

| Role ID | Access rights | Role name |
|---------|---------------|----------------------|
| 1 | View only | System Administrator |

Figure 1.1-36 Role information screen (menu list)

② Parameter

Information registered in the menu includes the following items.

Table 1.1-3 parameter of "menu list"

| Item name | | Description |
|-----------|--|---|
| 1 | Authentication requirement | Not required: Accessible without login |
| | | Required: Accessible only after login |
| 2 | Service status | Service available: Active state. Normal user can access. |
| | | Menu under development: Only system manager can access. |
| 3 | Display order in menu group | The order of submenu displaying in the menu group. Submenu displays in ascending order from the top. |
| 4 | Auto filter check | The setting whether the "auto filter" checkbox being checked or not when the menu displays. |
| 5 | Onload filter | The setting of whether the "filter" button is pressed or not when the menu displays. |
| 6 | Maximum line count for Web display | The maximum number of lines to display in "list/update" |
| 7 | Line count for confirmation before Web display | The maximum number of lines to display in the confirmation dialog before outputting to "list/update". |
| 8 | Maximum line count for Excel output | The maximum number of lines to output to Excel. |

| | | | | |
|------------------------------------|--|-------------------------------------|--------------------|----------------|
| Authentication requirement* | Service status* | Display order of menu group* | Auto filter check* | Onload filter* |
| ① | ② | ③ | ④ | ⑤ |
| Maximum line count for Web display | Line count for confirmation before Web display | Maximum line count for Excel output | | |
| ⑥ | ⑦ | ⑧ | | |

Figure 1.1-37 Menu register screen (menu list)

The relationship between "Maximum line count for Web display" and "Line count for confirmation before Web display" is as below.

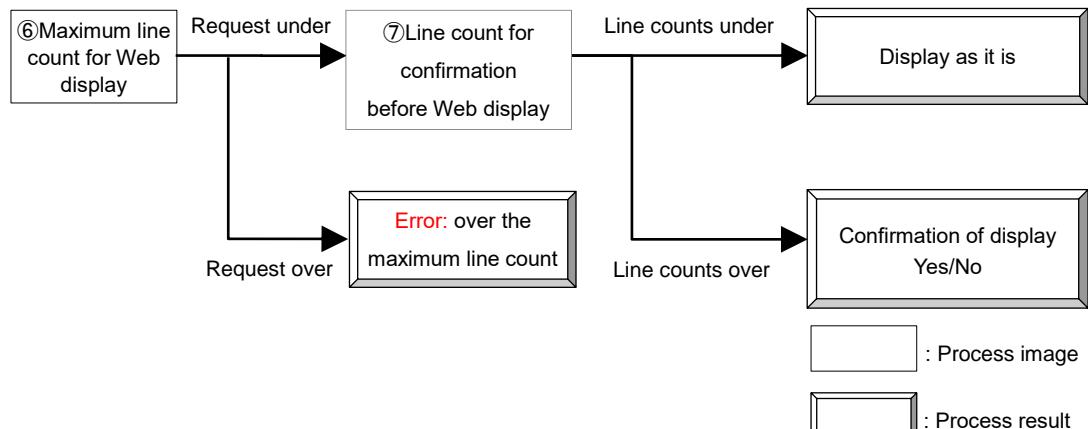


Figure 1.1-38 Overview of maximum web display line count operation

If the line count of output file is larger than "Maximum line count for Excel output", the display of items in "Download all and edit file uploads" will become as below.



Figure 1.1-39 Error display screen (Menu list)

File that can be downloaded from this screen are not Excel files but CSV files in original format.

When users want to edit and upload using this file, please click the "Original format editing Excel creation tool" button to download the tool and follow the "Readme" file in the downloaded file to operate.

(13) Role list

Register/update/discard roles.

The role can only check the user it owns and the menu that associates with it.

Role names must be **unique**.

The screenshot shows the 'Management Console' interface for managing roles. The top navigation bar includes 'User name [System Administrator]', 'Login ID [administrator]', 'Change password', and 'Logout'. The left sidebar has a 'Menu' section with 'Main menu', 'System settings', 'Menu group list', 'Menu list', and 'Role list' (which is selected). Below that are 'User list', 'User/Menu link list', 'Role/User link list', 'Export menu', 'Import menu', 'Export/Import menu list', and 'version'. At the bottom of the sidebar are 'Contact administrator' and 'Panicker' buttons. The main content area has three tabs: 'Description' (with 'Open' and 'Close' buttons), 'Display filter' (with a search table and 'Filter' and 'Clear filter' buttons), and 'List/Update' (with a table showing one record: Role ID 1, Role name 'System Administrator', User information, Menu information, Remarks 'System Administ', Last update date/time '2015/04/01 10:00:00', and Last updated by 'System Administrator'. It also has 'Update' and 'Discard' buttons). A message at the bottom says 'Filter result count: 1' and an 'Output Excel' button. The bottom right of the main area has an 'Open' button.

Figure 1.1-40 Role list screen

(14) User list

Register/update/Discard user (account).

Maintain the association between user and the role (operate permission) by pressing the "Role information" button.

If account is locked, unlock it in this screen.

Login ID must be **unique**.

The screenshot shows the Exastro Management Console interface. On the left, a sidebar menu includes options like Main menu, System settings, Menu group list, Menu list, Role list, User list (which is currently selected), User/Menu link list, Role/User link list, Export menu, Import menu, Export/Import menu list, and version. The main content area has two tabs: 'Description' (selected) and 'Display filter'. Below these are search filters for Discard, User ID, Login ID, User name, Last update date/time, and Last updated by. Buttons for Filter, Clear filter, and Auto-filter are present. The 'List/Update' tab is active, showing a table with columns: Update, Discard, User ID, Password, User name, Mail address, Role information, Last up, Last update date/time, and Last updated by. A single row is displayed for 'System Administrator' with ID 1, email sample@xxx.bbb.cc, and the 'Role information' button highlighted with a red box. Buttons for Output Excel and Register are at the bottom. Top right of the main area shows User name [System Administrator], Login ID [administrator], Change password, and Logout.

| Update | Discard | User ID | Password | User name | Mail address | Role information | Last up | Last update date/time | Last updated by |
|-------------------------|--------------------------|---------|----------|----------------------|-------------------|-------------------------|------------|-----------------------|----------------------|
| <button>Update</button> | <button>Discard</button> | 1 | | System Administrator | sample@xxx.bbb.cc | Role information | 2020/01/28 | 2020/01/28 10:59:01 | System Administrator |

Figure 1.1-41 Screen of transitioning to role setting screen (User List)

(15) Role/Menu link list

Register/update/discard the link between each role and menu.

Menu screens that doesn't associate with the role will not be displayed in the role's user group.

| Discard | Item No. | Role | Menu group | Last update date/time | Last updated by |
|---------------------------------------|--|--|--|-----------------------|----------------------|
| All records | | ID: 2,100,000,202 Name: System Administrator | ID: 2100000002 Name: Management Console | 2015/04/01 10:00:00 | System Administrator |
| <input type="button" value="Update"/> | <input type="button" value="Discard"/> | 2,100,000,203 1 | System Administrator 2100000002 Management Console | 2015/04/01 10:00:00 | System Administrator |
| <input type="button" value="Update"/> | <input type="button" value="Discard"/> | 2,100,000,204 1 | System Administrator 2100000002 Management Console | 2015/04/01 10:00:00 | System Administrator |
| <input type="button" value="Update"/> | <input type="button" value="Discard"/> | 2,100,000,205 1 | System Administrator 2100000002 Management Console | 2015/04/01 10:00:00 | System Administrator |
| <input type="button" value="Update"/> | <input type="button" value="Discard"/> | 2,100,000,207 1 | System Administrator 2100000002 Management Console | 2015/04/01 10:00:00 | System Administrator |
| <input type="button" value="Update"/> | <input type="button" value="Discard"/> | 2,100,000,208 1 | System Administrator 2100000002 Management Console | 2015/04/01 10:00:00 | System Administrator |
| <input type="button" value="Update"/> | <input type="button" value="Discard"/> | 2,100,000,209 1 | System Administrator 2100000002 Management Console | 2015/04/01 10:00:00 | System Administrator |

Figure 1.1-42 Role/menu link list screen

Role and menu registered in "(12) menu list" and "(13) role list" will display in the list box(①,② in the Figure below), so please select each of them and select their "associate"(③ in the Figure below).

Figure 1.1-43 Group menu permission setting screen (role/menu link list)

(16) Role/User link list

Register/update/discard the link between each user (account) and role (execution permission).

The user (account) that is not linked to role can't access each menu screen.

The screenshot shows the Exastro Management Console interface. On the left, there is a dark sidebar with a navigation tree. Under the 'Role/User link list' category, 'User list' is selected. The main area has two tabs: 'Description' (which is active) and 'Display filter'. Below these is a table with columns: Discard, Item No., Role, Last update date/time, and Last updated by. A search bar is at the top of the table. At the bottom of the table are 'Filter' and 'Clear filter' buttons, and a checked checkbox for 'Auto-filter'. Below this is another tab labeled 'List/Update' which contains a table with columns: Update, Discard, Item No., Role, User, Remarks, Last update date/time, and Last updated by. The table shows one record: ID 1, Name System Administrator, User ID 1, Login ID administrator, Remarks System Administrator, Last update date/time 2015/04/01 10:00:00, and Last updated by System Administrator. Below the table is a message 'Filter result count: 1' and an 'Output Excel' button. At the very bottom of the page is a 'Contact administrator' link.

Figure 1.1-44 Role/user link list screen

Role and user registered in "(13) role list" and "(14) user list" will display in the list box(①,② in the Figure below), so please select each of them.

For more information about default access permission for ③, Please refer to
ITA_User_Instruction_Manual_role-based access control.

The screenshot shows a registration form titled 'Register'. It has a table with several columns: Item No., Role (①name), User ID: ②login ID, Default access ③permission, Access permission setting, Role to allow access, Last update date/time, and Last updated by. The 'Role (①name)' and 'User ID: ②login ID' fields are highlighted with red boxes and circled numbers ① and ② respectively. The 'Default access ③permission' field is also highlighted with a red box and circled number ③. Below the table is a note: '※*is a required item.' At the bottom are 'Back' and 'Register' buttons.

Figure 1.1-45 User permission setting screen (Role / User link list)

(17) Sequence list

For the unique items (Number, ID, Etc.) of each menu, set the numerical value to be used for the next registration.

For records whose remarks is "For history Table", users can set the value (Numerical value) of the history serial number used in the change history.

- ※1 New registration/abolition will not be possible.
- ※2 The registration of the target menu will result in an error if the value set is already in use.
- ※3 The configurable minimum and maximum value is -2147483648 and 2147483646 respectively. If the value is 2147483647, the target menu turns into an un-registerable state, so please change the value.
- ※4 Export/Import of this menu is not supported.
Sequence values are also inherited when each menu unit is exported/imported.
- ※5 Menu sequences created with any version after 1.6.0 menu creation function will be automatically added to this menu.

| Sequence Name | Setting Value | Menu Group | Menu | Display Order | Remarks |
|---------------------------|---------------|--------------------|------------------------|---------------|------------------------|
| SEQ_A_SYSTEM_CONFIG_LIST | 1 | Management Console | System settings | 2,100,110,001 | |
| JSEQ_A_SYSTEM_CONFIG_LIST | 2 | Management Console | System settings | 2,100,110,002 | for the history table. |
| SEQ_A_PERMISSIONS_LIST | 1 | Management Console | IP address filter list | 2,100,110,003 | |
| JSEQ_A_PERMISSIONS_LIST | 1 | Management Console | IP address filter list | 2,100,110,004 | for the history table. |
| SEQ_A_MENU_GROUP_LIST | 1 | Management Console | Menu group list | 2,100,110,005 | |
| JSEQ_A_MENU_GROUP_LIST | 1 | Management Console | Menu group list | 2,100,110,006 | for the history table. |

Figure 1.1-46 Sequence list screen

(18) SSO basic preference

Register/Update/Discard the basic information for the authentication provider of Single-Sign-On (SSO).

For the details to set SSO, please refer to the “System configuration guide_SSO (Single-Sign-ON)” manual.

The screenshot shows the Exastro Management Console interface. The left sidebar has a dark theme with white text. The main area has a light blue header bar with the title "Management Console". In the top right corner, there are buttons for "User name [System Administrator]", "Login ID [administrator]", "Change password", and "Logout". The main content area is divided into sections:

- Description**: A table with columns: Discard, Provider ID, Provider Name, Authentication Method, Last update date/time, and Last updated by. It includes a dropdown for "Exclude discarded records" and search fields for each column. Buttons at the bottom are "Filter" and "Clear filter".
- Display filter**: A section with a close button.
- List/Update**: A section with a close button containing the message "Please Wait... Loading".
- Register**: A section with a close button.

At the bottom left of the main area, there is a "Contact administrator" link.

Figure 1.1-47 Single-sign-on Basic Preference

(19) SSO attribute preference

Register/Update/Discard the attributes for the authentication provider of Single-Sign-On (SSO).

The screenshot shows the Exastro Management Console interface, similar to Figure 1.1-47 but for attribute preferences. The main content area is divided into sections:

- Description**: A table with columns: Discard, Attribute ID, Provider Name, Item Name, Last update date/time, and Last updated by. It includes a dropdown for "Exclude discarded records" and search fields for each column. Buttons at the bottom are "Filter" and "Clear filter".
- Display filter**: A section with a close button.
- List/Update**: A section with a close button containing the message "Record does not exist. New registration can be done as per the following.".
- Register**: A section with a close button.

At the bottom left of the main area, there is a "Contact administrator" link.

Figure 1.1-48 Single-sign-on Attribute Preference

(20) Check ITA version

Check the version of each ITA function.

Only installed functions can be checked.

The screenshot shows the Exastro Management Console interface. The top navigation bar includes the Exastro logo and the text "Management Console". On the left, a dark sidebar titled "Menu" lists various management options. The "version" option is highlighted in blue. The main content area has a title "version" and contains a table with two columns: "driver" and "version". The table lists ten entries, all showing version 1.6.1 for different ITA functions.

| driver | version |
|--------------|--|
| Base | Exastro IT Automation Base functions version 1.6.1 |
| Ansible | Exastro IT Automation Ansible Driver version 1.6.1 |
| Cobbler | Exastro IT Automation Cobbler Driver version 1.6.1 |
| Create_param | Exastro IT Automation Create_param version 1.6.1 |
| Hostgroup | Exastro IT Automation Hostgroup version 1.6.1 |
| Hostgroup2 | Exastro IT Automation Hostgroup2 version 1.6.1 |
| Hostgroup3 | Exastro IT Automation Hostgroup3 version 1.6.1 |
| Material | Exastro IT Automation Material version 1.6.1 |
| Material2 | Exastro IT Automation Material2 version 1.6.1 |
| Material4 | Exastro IT Automation Material4 version 1.6.1 |
| Terraform | Exastro IT Automation Terraform Driver version 1.6.1 |

Figure 1.1.49 ITA version check screen

(21) IP address filter list

Register/update/discard the user devices that can connect to ITA system.

This function is not displayed because it's disabled during installation on default.

Please follow the instructions below to enable the function when using it.

- ① Open the "Role/menu link list" menu
- ② Select "management console" from the pulldown menu of "Display filter" → "Menu group".
- ③ "Restore" "IP address filter list"
- ④ Reload the screen

Register address in IPv4 format and if "IP address restrictions" in the "System settings" menu is enabled, it's only possible to access the system from registered device.

The IP filter function is disabled.

| Discard | Item No. | IP address | Notes | Last update date/time | Last updated by |
|---------------------------|---|----------------------|----------------------|---|----------------------|
| Exclude discarded records | <input type="text"/> ~ <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> ~ <input type="text"/> | <input type="text"/> |

Filter Clear filter Auto-filter

List/Update

Record does not exist.
New registration can be done as per the following.

Register Download all and edit file uploads Trace history

Figure 1.1-50 IP address list screen

* If "IP address restrictions" in the "System settings" menu is disabled, the "The IP filter function is disabled." message will display.

[Note]

Please enable "IP address restrictions" in the "System settings" menu **after registering devices that is able to connect the system**. If "IP address restrictions" is enabled **without** registering valid devices, it will be **unable to connect to the ITA system**.

(22) Operation delete list

Configure settings to delete the data associated with the scheduled operation date registered in the basic console "Input operation list" according to the specified "Logical deletion days" and "Physical deletion days".

Operation will be discarded after the "Logical deletion days" and will be deleted from the DB after the "Physical deletion days".

This function is not displayed because it's disabled during installation on default.

Please follow the instructions below to enable the function when using it.

- ① Open the "Role/menu link list" menu
- ② Select "management console" from the pulldown menu of "Display filter" → "Menu group".
- ③ "Restore" "Operation delete list"
- ④ Reload the screen

The screenshot shows the Exastro Management Console interface. The left sidebar has a dark theme with white text and includes links like Main menu, System settings, IP address filter list, Menu group list, Menu list, Role list, User list, User/Menu link list, Role/User link list, Export menu, Import menu, Export/Import menu list, Operation delete list (which is highlighted in blue), File delete list, version, and Contact administrator. The main content area has a light background. At the top right, there are buttons for User name [System Administrator], Login ID [administrator], Change password, and Logout. Below these are sections for 'Description' (with a '▽Open' button) and 'Display filter'. The 'Display filter' section contains a table with columns: Discard, No, Logical deletion days, Physical, Last update date/time, and Last updated by. It includes dropdown menus for each column and search fields. Below the table are 'Filter' and 'Clear filter' buttons, and a checked checkbox for 'Auto-filter'. At the bottom of the main content area, there are four buttons: List/Update (with a '▽Open' button), Register, Download all and edit file uploads, and Trace history, each with its own '▽Open' button.

Figure 1.1-51 Operation delete list screen

The item list of the screen is as below

Table 1.1-4 Item list of registration screen (Operation delete list)

| Item | Description | Input required | Input type | Restrictions |
|-----------------------------------|---|-----------------------|------------|---------------------------|
| Logical deletion days | Based on the machine date and time, operation will be logically deleted (discarded) after the specified days after the scheduled execution date. | <input type="radio"/> | Manual | Numeric |
| Physical deletion days | Based on the machine date and time, operation will be physically deleted (deleted from the database record) after the specified days after the scheduled execution date. | <input type="radio"/> | Manual | Numeric |
| Table name | Specify the name of the table to be deleted. | <input type="radio"/> | Manual | Maximum length 256 bytes |
| Primary key column name | Specify the column name of the primary key of the table | <input type="radio"/> | Manual | Maximum length 256 bytes |
| Operation ID column name | Specify the column name in the table that stores the operation ID | <input type="radio"/> | Manual | Maximum length 256 bytes |
| Data storage path acquisition SQL | Specify the SELECT statement for obtaining the data storage information from the interface information if the path of interface information under data storage is specified in history data path 1~4. This is optional when the path under data storage is not assigned. e.g.) select ANSIBLE_STORAGE_PATH_LNX AS PATH from B_ANSIBLE_IF_INFO where DISUSE_FLAG='0' ※Please set PATH for the alias name. | - | Manual | Maximum length 1024 bytes |
| History data path 1 | History data path 1(optional) If operation instance directory of the input data history or the result data history is store under ~/ita-root/, enter the relative path after ~/ita-root/ e.g.) In the case of Ansible Legacy input data history uploadfiles/2100020113/FILE_INPUT In the case of Ansible Legacy result data history uploadfiles/2100020113 /FILE_RESULT For paths under the data storage of interface information such as the work instance directory (data storage), please enter the path that has the keyword "/__data_relay_storage__/" which shows the data storage. e.g.) In the case of Ansible Legacy operation instance directory /__data_relay_storage__/legacy/ns/ Please enter absolute path if the path is under ~/ita-root/ or other than the path under data storage e.g.) /var/log/hoge The same applies to history data path 2 ~ 4 | - | Manual | Maximum length 1024 bytes |
| History data path 2 | History data path 2 (Optional) | - | Manual | Maximum length 1024 bytes |
| History data path 3 | History data path 3 (Optional) | - | Manual | Maximum length 1024 bytes |
| History data path 4 | History data path 4 (Optional) | - | Manual | Maximum length 1024 bytes |
| Remarks | Free description field | - | Manual | Maximum length 1024 bytes |

(23) File delete list

Check the last update date of the files on the server and delete the files whose expiration time has passed.

This function is not displayed because it's disabled during installation on default.

Please follow the instructions below to enable the function when using it.

- ① Open the "Role/menu link list" menu
- ② Select "management console" from the pulldown menu of "Display filter" → "Menu group".
- ③ "Restore" "File delete list"
- ④ Reload the screen

Figure 1.1-52 File delete list screen

The item list of the screen is as below.

Table 1.1-5 Item list of registration screen (File delete list screen)

| Item | Description | Input required | Input type | Restrictions |
|-----------------------|---|-----------------------|------------|---------------------------|
| Deletion days | Execute deletion if the assigned expiration day based on the last update date passed. | <input type="radio"/> | Manual | Numeric |
| Directories to delete | Specify the directory which stores the file to be deleted. | <input type="radio"/> | Manual | Maximum length 1024 bytes |
| Files to delete | Specify the name of the file to be deleted. Wildcard can be used for the specification. | <input type="radio"/> | Manual | Maximum length 1024 bytes |
| Delete subdirectories | Set whether the subdirectory under the deletion target directory has also to be deleted or not. If "Yes" is set, then the name and the last update time of subdirectory of the deletion target directory will be checked and deleted if it is also the deletion target. | <input type="radio"/> | List | Yes/No |

1.2 BackYard contents

This part describes the Backyard contents in the basic functions of ITA.

BackYard is resident processes that works independently in the server.

Unlike the web content that is operated on the web browser, users will not notice the existence of BackYard.

Please perform controls such as start or stop of operation in command line

1.2.1 BackYard operation list

The list of BackYard operation is as below.

Table 1.2-1 BackYard function

| No | Operation name | File name(※) | Description |
|----|---------------------------------------|--|------------------------------|
| 1 | Send mail | ky_mail※1 | Can be stopped if not needed |
| 2 | Role link checking + cleaning | ky_std_checkcondition-linklist※1 | Residential |
| 3 | Input operation checking + cleaning | ky_execinstance_dataautoclean-workflow.sh※2 | Start by Cron |
| 4 | File checking + cleaning | ky_file_autoclean-workflow.sh※3 | Start by Cron |
| 5 | ActiveDirectory information mirroring | ky_activedirectory_roleuser_replication-workflow.php※4 | Resident |

※1 The file locates in ~/ita-root/backyards/webdbccore

※2, 4 The file locates in ~/ita-root/backyards/ita-base

※3 The file locates in ~/ita-root/backyards/common

1.2.2 Description of BackYard operation

The description of Backyard operation is as below

(1) Send mail

The send mail function dynamically replaces sender address, destination address and content variables and send mail automatically.

The send mail function refer to three files including template list, template, mail request file (details are mentioned later) and operates while judging if the execution is needed or not.

There are three patterns of mail, including free type, safe type, and free format type. The following table shows the necessity and requirement of each file according to each pattern.

Table 1.2-2 Contents of reference type according to mail type

| File name | Template | Template list | | | | | Mail request file | | | | |
|------------------|-----------------|------------------------|------------------------|------------------------------|------------------------|---------------------|--------------------------------------|---------------------------------------|-------------------------------|-------------------------|--|
| | | Items in the file | Template ID | Number of word substitutions | from, to | cc | Title | from, to | cc | String for substitution | |
| Mail type | Position | 1 st column | 2 nd column | 3 rd column | 4 th column | 1 st row | 2 nd ,3 rd row | 4 th row | 5 th and later row | | |
| Free type | Required | Required | Numeric(0 or more) | Not required | | Required | Optional | Strings according to specified number | | | |
| Safe type | | | | X (fixed) | Required | | | Not required | | | |
| Free format type | Not required(※) | | | | | Required | Optional | | | Not required | |

※ The content of the mail is written in mail request file

The explanation and sample of each file are as below

[Important] Please edit each file with **character encoding [UTF-8]** and **newline character (LF)**.

① Template list

- File name : sysmail.list
- Deployment directory : ~/ita-root/confs/backyardconfs/

This file lists the number of variables and destination address used in the email template.

Mail are sent based on the list.

■ Template list example

| | 1 | 2 | 3 | 4 | 5 | |
|------------------|-----|---|---|------------------|-------------------------|---------------|
| Free type | 001 | 3 | 3 | from_add@ita.com | to_add@ita.com | cc_add@ita.jp |
| Safe type | 002 | 3 | 7 | from_add@ita.com | to1@ita.com,to2@ita.com | null |
| | 003 | | | | | |
| Free format type | 004 | X | | from_004@ita.com | to_004@ita.com | null |

↑ ↑ ↑ ↑ Separated by tab

Figure 1.2-1 Example of template list

Table 1.2-3 List of required parameter in the template list

| No | Item | Required | Remarks |
|----|------------------------------|----------|--|
| 1 | Template ID | ○ | 001~999 (000 is reserved so can't be used). |
| 2 | Number of word substitutions | ○ | Number of variable strings. E.g.) Date, person name, etc. |
| 3 | Source mail address | △ | Required if not written in the mail request file. |
| 4 | Destination mail address | △ | Same as above |
| 5 | cc address | × | Specify "null" if not required |

※ ④ Separate with comma when assigning multiple addresses

② Template

- File name : sysmail_body_nnn.txt
- Deployment directory : ~/ita-root/confs/backyardconfs/

The body of the mail. Please enter [template ID] for the [nnn] in the file name.]

e.g.) O sysmail_body_001.txt
x sysmail_body_1.txt

Write the variable for substitution (%%001% ~ %%999%) in the mail body if there is part that needs substitution.

Variables have to be consecutive and has same amount as the "Number of word substitutions" specified in the template list file.

■ Template example [OK]

To: Everyone in %%001%
This is a notice from the management department.
The password of %%003% hasn't been changed for %%002% days.
Please set a new password within 7 days.

OK to replace the order

※ Number of word substitutions = 3

■ Template example [NG]

To: Everyone in %%001%
This is a notice from the management department.
The password of %%002% hasn't been changed for %%005% days.
Please set a new password within 7 days.

NG because the numbers are not consecutive

③ Mail request file

- File name : sysmail_nnn_desired alphanumeric characters.txt
- Deployment directory : ~/ita-root/temp/ky_mail_queues/ky_sysmail_0_queue/

Specify the strings to insert to the template.

Please enter [template ID] for the [nnn] in the file name.

Please enter any unique alphanumeric strings after [nnn].

e.g.) Example of file names

- O sysmail_001_20140813123025_123456789
- O sysmail_001_a001.txt
- x sysmail_001_
- x sysmail_001_.txt

After preparing the template list and the template file, the mail will be sent by placing this file in the deployment directory.

When the mail is sent, the substitution strings are inserted into the variables in the template file.

After sending the mail, the send request file will be moved to the following directory according to the status of mail delivery.

- | | |
|-------------------|---|
| Successfully sent | → ~/ita-root/temp/ky_mail_queues/ky_sysmail_1_success |
| Failed to sent | → ~/ita-root/temp/ky_mail_queues/ky_sysmail_2_error |

■ Mail request file format

The mail request file decides the meaning by each row.

| | | |
|-------------------|-----|---|
| 1 st | row | … Mail title |
| 2 nd | row | … Source email address |
| 3 rd | row | … Destination mail address (Separate with comma when assigning multiple addresses) |
| 4 th | row | … cc mail address (Empty line if not needed) |
| 5 th ~ | row | … String for substitution |

※ 2nd ~4th row is needed for free type only.

※ Error occurs if the line count after the 5th row is not same with the number of variables in the template or the number of substitution word in template list.

Presenting example of mail request file using "①template list" and "template" as example.

■ Example of mail request file

1) Example of free type: Template ID = 001

sysmail_001_20160401_0001.txt

| | |
|-------------------------------------|-------------------------------|
| Request for changing password | > Mail title |
| admin@ita.jp..... | > Sender mail address |
| ml_dev1@ita.jp | > Destination mail address |
| ml_sup1@ita.jp | > cc address |
| system department | > %%001%% Substitution string |
| 90 | > %%002%% Substitution string |
| development portal | > %%003%% Substitution string |

Mail sent: places replaced by mail request file (red highlight)

Request for changing password
from: admin@ita.jp
to: ml_dev1@ita.jp
cc: ml_sup1@ita.jp

To: Everyone in system department
This is a notice from the management department.
The password of development portal hasn't been changed for 90 days.
Please set a new password within 7 days.

2) Safe type example: template ID = 002

sysmail_002_20160401_0001.txt

| | |
|-------------------------------------|-------------------------------|
| Request for changing password | > Mail title |
| system department | > %%001%% Substitution string |
| 90 | > %%002%% Substitution string |
| development portal | > %%003%% Substitution string |

※ The mail address is assigned by template list.

Mail sent: places replaced by mail request file (red highlight)
places replaced by template list(blue highlight)

Request for changing password

from: from_add@ita.com

to: to_add@ita.com

cc: cc_add@ita.com

To: Everyone in **system department**

This is a notice from the management department.

The password of **development portal** hasn't been changed for **90** days.

Please set a new password within 7 days.

3) Free format type: template ID = 004

sysmail_004_20160401_0001.txt

Request for changing password

To: Everyone in system department

This is a notice from the management department.

The password of development portal hasn't been changed for 90 days.

Please set a new password within 7 days.

Mail sent: places replaced by template list (blue highlight)

Request for changing password

from: from_004@ita.com

to: to_004@ita.com

cc:

To: Everyone in system department

This is a notice from the management department.

The password of development portal hasn't been changed for 90 days.

Please set a new password within 7 days.

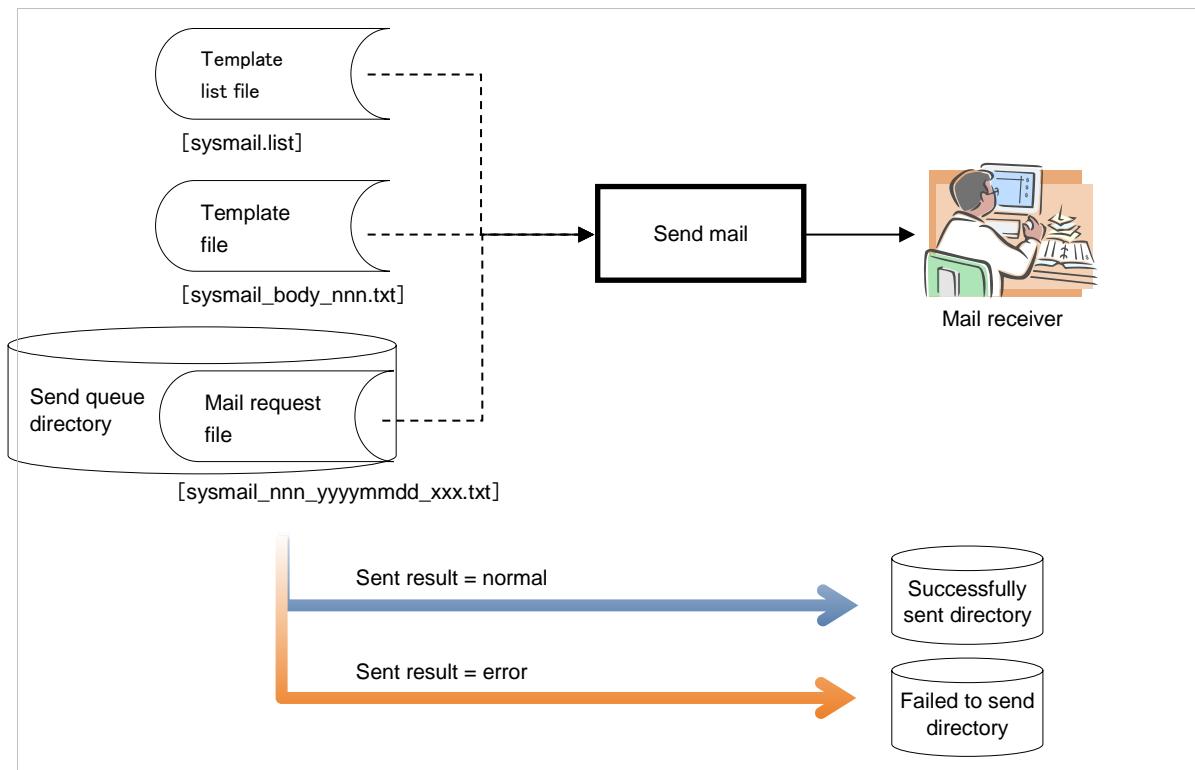


Figure 1.2-2 Operation image of send mail function

④ Procedure of sending mail

Explaining the procedure from deciding the template ID to the mail being sent.

For the file format and naming rules, please refer to "p35①Template list ~ p36③Mail request file"

1) Edit the template list file and decide the template ID

Open the template list file in editor and decide the template ID (unique number). Add a line and enter the decided ID on the first row.

If users want to use substitutable string when using free type or safe type, enter the number of substitution strings on the second row.

Mail address is also entered depending on the mail type.

2) Create template file (except free format type)

Enter the content of mail.

If there are places that needs substitution, enter them as variables.

※If there is no need of substitution, the template file is not needed.

3) Create mail request file

4) Place files in specified directory

• Template list → ~/ita-root/confs/backyardconfs/

• Template → ~/ita-root/confs/backyardconfs/

• Mail request file → ~/ita-root/temp/ky_mail_queues/ky_sysmail_0_queue/

(2) Role link checking + cleaning

Check role link list (role/user, role/menu) and delete the information if invalid relationship between role/user and role/menu.

Executes as a stand-alone resident process

(3) Input operation checking + cleaning

Delete the data according to the setting in "Operation delete list" menu

(4) File checking + cleaning

Delete the files according to the setting in "File delete list" menu

(5) ActiveDirectory information mirroring

Process mirroring (one-way synchronization) is performed according to the ActiveDirectory association function which is described later

※For details about the ActiveDirectory association function , please refer to " 1.3 Usage of ActiveDirectory association function".

1.3 Usage of ActiveDirectory association function

By using ActiveDirectory(refer to as AD), it's able to associate with ITA with the domain controller composed by the AD domain that the user is using.

If the following environment requirements are met, users can start the association by modifying the ITA side setting without making any modification to the setting on AD side.

I For the details of ITA side system construction and configuration, please refer to "System Configuration / Environment Construction Guide_ActiveDirectory association"

※ In the content of this chapter, the meaning of the following term is as below.

- (Term) sign-in ID → (Meaning) The value on the left side of @ mark of the property "userPrincipalName" in AD.
- (Term) group name → (Meaning) The value of security group of "sAMAccountName".

1.3.1 Getting started

[Environment requirement]

The following condition must met in AD side to use the function.

- WindowsServer 2000 or higher
- The name of the user on the AD associated with ITA is set to userPrincipalName

※ITA only supports the login name of "userPrincipalName" while login authentication.

[Enabling AD association function]

The function will be automatically enabled only if the two following conditions are met.

- ① "External authentication configuration file" exists in following directory

(Specified directory)

- ~/ita-root/confs/webconfs/

- ② There is at least one valid line in the external authentication configuration file which is mentioned later

[Preparation of external authentication configuration file]

The external authentication configuration file should be written properly as the following ①～③ requirements

- ① File name

The file must be the following file name

(File name)

- ExternalAuthSettings.ini

- ② Specifying the DomainController to connect to

■Section : [DomainController_1(DomainController_2)(DomainController_3)]

▪ host --- Specify the host of connection target DomainController.

▪ port --- specify the port used when connecting to the DomainController specified above.

Any function introduced in later chapter "1.4.2 function overview", the host of connection target DomainController and the port used when connecting to the DomainController uses the configuration value specified above.

- ③ Specifing the user for mirroring

■Section [Replication_Connect]

▪ ConnectionUser --- Specify the user to search for the information on AD to perform mirroring

▪ UserPassword --- Specify the password of user specified above

▪ basedn --- Specify the base dn of the domain(Also specify the OU in the case of assigning the search range)

The user specified here is for searching AD in order to perform mirroring operation. Therefore, the specified ConnectionUser is required to have the permission to search AD.

※Note: Even if these settings are incorrect, this function is still valid if the external authentication file exists. In this case, users beside the "non-association target user" and the "non-association target role" which are mentioned later can't log into ITA.

1.3.2 Function overview

Two functions are provided in this feature.

(1) AD information mirroring function

In order to log in to the ITA as an AD user, it is necessary to register records in the three tables of "User list" and "Role list" and "Role / User Link list" on the ITA.

AD information mirroring function automatically registers and updates these tables base on the AD information mentioned later.

Once a role is registered, its record will always be mirrored (one-way synchronization) as long as the AD linkage function is enabled, so any changes made on AD will be reflected on the corresponding record on ITA.

The details of mirroring function is described in "[1.3.3 AD information mirroring function](#)".

(2) AD authentication (Kerberos authentication) function

When it happens to authentication of login attempt, the Kerberos authentication function of the association target AD is used.

Automatic AD authentication happens only when AD association function is available.

The details of AD authentication function is described in "[1.3.4 AD authentication \(Kerberos authentication\) function](#)".

1.3.3 AD information mirroring function

AD association function treats the relation between the user on AD and the security group it belongs to as permission (excluding the non-association target user which is mentioned later).

Mirroring function is a function that automatically reflects the relation between the user on AD and the security group it belongs to on ITA.

[Register and Update]

The following AD information will be mirrored to ITA.

The AD information that hasn't been registered on ITA will be operated as "Register" and the AD information that has been registered on ITA even once will be operated as "Update".^{*2}

① "User Information" on AD → "1.1.4(14) Role/Menu link list" on ITA

- Sign-in ID — Login ID
- Display name ^{*3} — User name
- Email ^{*4} — Mail address

② "Security group information" on AD → "1.1.4(13) Role list" on ITA.

- Group name — Role name

③ "Security group information which the user belongs to" on AD → "1.1.4(16) Role/Menu link list" on ITA

- The role ID and name registered on ITA in ② — role(ID:name) ^{*5}
- The user ID and name registered on ITA in ① of ② — user(UserID:LoginID)

※Note: OU is not treated as permission. Therefore, it is not treated as the Role name on ITA.

※Note: Manual setting is required in the "1.1.4(15) Role/Menu link list" menu

The last updater of the mirrored record is set to "ActiveDirectory user synchronization procedure"

The mirroring process is always in execution when the AD association function is enabled.

Therefore, although the above ①~③ record is updated on ITA, the AD information will overwrite and update the records

Discard and Restore operation will be mirrored base on the enabled/disabled status on AD.

The details of discard and restore is described later in this section.

※In the case of creating and editing the records on ITA with AD association function enabled, setting up the "special user" and the "special role" mentioned in the following is required.

Please refer to "1.3.5 About the exception of this function" for details.

^{*2} If the ①~③ information above is not updated, the update operation will not be performed.

^{*3} If display name is not set on AD, the function will set the same ID as the sign-in ID to ITA automatically.

^{*4} If email address is not set on AD, a dummy value will be set to ITA automatically.

^{*5} If there is no user in the group in AD, then the record cannot be created.

【Discard】

In the following cases, the record on ITA will be discarded by mirroring operation if the record is in active state.

- User or security group is deleted on AD
- User account is disabled on AD
- The "userPrincipalName" of user is deleted on AD
- The type of group from security group to distribution group is changed on AD

【Restore】

In the following cases, the record on ITA will be restored by mirroring operation if the record is discarded.

- Deleted user or security group is restored on AD *⁶
- Disabled user account enabled on AD
- The "userPrincipalName" of the user whose "userPrincipalName" has been deleted was set on AD
- The type of group from distribution group to security group was changed on AD

Table 1.3-1 List of discard/restore operation by case

| Information operation on AD | The activation status of record on ITA (before mirroring) | |
|---|---|------------|
| | Discarded | Active |
| Delete user or group | Do nothing | Discard |
| Disable user account | Do nothing | Discard |
| Delete the "userPrincipalName" of user | Do nothing | Discard |
| Change the group type (security group→distribution group) | Do nothing | Discard |
| Restore deleted user or group | Restore | Do nothing |
| Enable the disabled user account | Restore | Do nothing |
| Reset the "userPrincipalName" of user | Restore | Do nothing |
| Change the group type (distribution group→security group) | Restore | Do nothing |

⁶ In situations such as restoring by using the backup of AD itself or the full backup of server OS

1.3.4 AD authentication(Kerberos authentication)function

If the AD association function is available, please use the sign-in ID and password that users normally use on AD to perform Kerberos authentication to the using domain.

However, user who matches one of the following conditions can't login with this function

- Non-association target user ^{*7} (details in next section)
- User whose "Do not require Kerberos pre-authentication" flag is on in AD
- User whose "User must change password at next logon" flag is on in AD
- User whose account is in locked status on AD
- User who wants to login ITA with the log on information other than sign-in ID
- User who is not registered in "User list" for some reason
- User whose link permission is not registered in "Role/User link list" for some reason

Also, the screen of users who isn't given permission to access to the menu in " Role/Menu link list" will move to the "illegal access screen" although the user passed the authentication process.

※Note: If AD association function is enabled, lockout counter on AD will count if login on ITA fails. (Not including the "non-association target user" described in next section)

⁷ Please login with ITA internal authentication (the authentication based on the login ID and password managed on ITA).

1.3.5 About the exception of this function

There are exceptions in 「1.3.3 AD information mirroring function」 and 「1.3.4 AD authentication (Kerberos authentication)function」.

This section explains about the exceptions.

(1) Non-association target record

In principle, the "User list" record, "Role list" record , "Role/User link list" record created on ITA will be automatically discarded during mirroring process.

However, exception ①～⑤ is treated as non-association target of AD association function and is not discarded.

① The "User list" record of the ITA default system administrator user(userID:1)

The "Role list" record of the ITA default system administrator role(roleID:1)

The "User list" record which is assigned as special user

The "Role list" record which is assigned as special role

The "Role/user link list" record which either the property of user or role is specified special.

If the AD user's sign-in ID is duplicated with the **non-association target user's**^{*8} login ID, the information of the AD user will not be mirrored.

Also, if the group name on AD is duplicated with the **non-association target role's**^{*9} role name, the information of the AD group will not be mirrored.

※Special user and special role can be set in the external authentication configuration file.

According to the property of function, the setting of special user and special role can be specified from the record mirrored from AD. However, it is not recommended.

The configuration function of special user and special role is provided assuming that the function is only used for excluding the record created on ITA from mirroring target.

※In the case of setting the records mirrored from AD as special user or special role, the records are not only won't be discarded but also won't be updated or restored.

(2) Non AD authentication target user (ITA internal authentication)

Even though the non-association target user is active on AD, the authentication process is always based on the login ID and password managed on ITA. (ITA internal authentication)

※ If the user originally mirrored from AD is assigned as special user, ITA internal authentication is performed.

^{*8} User that meets the above ①③

^{*9} Role that meets the above ②④

2 Application operation

The operations on ITA system are not only user inputs from browser screen but also operations and maintenances of system via ssh console or FTP software. The targets of operation and maintenance are as follow.

- Installation related
- Delete operation execution history routinely
- Change log level
- Maintenance

2.1 Start of installation

For the post-installation work, please refer to the three operation check in "Installation manual"

2.2 Delete operation execution history routinely

The operation history that is linked to the Operations registered in the "Input operation list" whose execution date is specified will be deleted after the specified reservation time.(Treated as discard)

The operation histories are as below.

- ITA - Information managed by symphony
- The driver of each orchestrator - Information managed by Ansible driver

The reservation time can be assigned in the following file

```
• ITA  
~/ita-root/confs/backyardconfs/ita_base/keep_day_length.txt  
• Ansible  
~/ita-root/confs/backyardconfs/ansible_driver/keep_day_length.txt  
• Driver common  
~/ita-root/confs/backyardconfs/ita_base/dataautoclean_conf.txt
```

This function is executed according to the date and time registered in Cron.

In Cron, by entering the lines below after the command {crontab -e}, the execution time can be specified.

```
•ITA  
mm hh * * * su - -c '/exastro/ita-root/backyards/ita_base/ky_std_symphony-dataautoclean.sh'  
  
•Ansible  
mm hh * * * su - -c '/exastro/ita-root/backyards/ansible_driver/ky_ansible_dataautoclean-workflow.sh'  
  
•Driver common  
mm hh * * * su - -c '/exastro/ita-root/backyardconfs/commn/ky_execinstance_dataautoclean-workflow.sh  
confs/backyardconfs/ita_base/dataautoclean_conf.txt'  
  
mm: startup time(minute)  
hh: startup time(hour)
```

2.3 Change log level

The method to change the log level of individual process in ITA system is as follow

■ Target file

```
~/ita-root/backyards/webdbcore/ky_mail  
~/ita-root/backyards/webdbcore/ky_std_checkcondition-linklist  
~/ita-root/backyards/ita_base/ky_std_symphony-dataautoclean.sh  
~/ita-root/backyardconfs/commn/ky_execinstance_dataautoclean-workflow.sh
```

① NORMAL level

Enable 「LOG_LEVEL='NORMAL'」

```
# Log output level  
#   DEBUG : Output log at analysis level  
#   NORMAL: Only output critical information to log  
#LOG_LEVEL='DEBUG'  
LOG_LEVEL='NORMAL'
```

② DEBUG level

Enable 「LOG_LEVEL='DEBUG'」

```
# Log output level  
#   DEBUG :Output log at analysis level  
#   NORMAL:Only output critical information to log  
LOG_LEVEL='DEBUG'  
#LOG_LEVEL='NORMAL'
```

※ The log level change is available after restarting the process ([refer to " 2.4 Maintenance"](#))

2.4 Maintenance

2.4.1 Start/Stop/Restart ITA system individual process

Taking send mail function for example.

In the case of "Role link checking + cleaning", please replace "ky_mail" with "ky_std_checkcondition-linklist"

(1) Start process

```
$ service ky_mail start ←
```

(2) Stop process

```
$ service ky_mail stop ←
```

(3) Restart process

```
$ service ky_mail restart ←
```

3 Appendix

3.1 Troubleshooting

| No | Content |
|-----|---|
| Q-1 | <p>Display becomes slower. Takes too long to download large files. Operation times out. PHP script crashes.</p> |
| A-1 | <p>The memory setting of PHP maybe insufficient. Please check the value of following parameter in PHP configuration file "php.ini" and set the maximum memory size that is able to allocate to PHP.</p> <ul style="list-style-type: none">• <code>memory_limit</code> The maximum memory size that PHP can be allocated <p>Since similar cases may happen to file upload, please check the following parameter value as well.</p> <ul style="list-style-type: none">• <code>post_max_size</code> The maximum size allowed for POST data• <code>upload_max_filesize</code> The maximum size per file |
| Q-2 | What are the precautions for creating "ita-root" (ITA system root directory)? |
| A-2 | Please make sure that the directory location is within 1024 characters, including the "absolute path" and the "file name" specified by the browser. If the full path name is too long, the operation of server may be adversely affected (slow / freeze). |
| Q-3 | On the Web screen of ITA, although keyword search and ambiguous search in the "Display filter" submenu system can be performed, the result of ambiguous search with wildcard symbol ("*", "#" for example) only may not as expected when the RDBMS is Oracle . |
| A-3 | When performing ambiguous search with symbols on Oracle, please perform search with the string before/after the symbol together. (e.g.) <code>x : [*]</code> <code>O : [fo*], [b*r]</code> , etc. |
| Q-4 | The account is locked and can't login |

| No | Content |
|-----|---|
| A-4 | <p>The account will be locked if log in fails several times. The number of lock failures attempts can be set according to the parameter configuration in "System settings" menu.</p> <ul style="list-style-type: none"> •PWL_THRESHOLD Password failure threshold(number of times) <p>The duration of account lock can also be changed according to the parameter in "System settings" menu.</p> <ul style="list-style-type: none"> •PWL_EXPIRY Account lock duration(seconds) <p>※If the value of parameter "PWL_EXPIRY" is set to zero, the account will not get locked no matter how many times the login fails.</p> |
| Q-5 | Is it possible to set the DomainController of different domain when setting multiple DomainControllers in the external authentication configuration file of the AD association function? |
| A-5 | <p>No.</p> <p>ITA will obtain SID - the unique domain key of AD during the internal process of AD association. Since SID may duplicate between different domain, it's not able to synchronize the AD information to ITA if the DomainControllers are set to different domains.</p> |
| Q-6 | After reconstructing the AD domain that has once associated with ITA, AD association became unavailable. |
| A-6 | <p>After reconstruction (including backup), the SID obtained during internal process may duplicate with the SID in ITA database.</p> <p>When duplication happens, the process of AD association function will not work correctly.</p> <p>In the case of associating ITA with the reconstructing AD that has once associated with ITA, please reconstruct ITA itself.</p> |
| Q-7 | The AD association function is disable after once enabled because it's no longer needed. However, the user/role record mirrored to ITA was not discarded. |
| A-7 | <p>It's a specification.</p> <p>Please manually discard the records from the web console or use the file upload function to remove all records at once.</p> |
| Q-8 | Some AD users can't login although their record have been mirrored to ITA. |
| A-8 | <p>If the content in external authentication file has difference between ① and ② and the users are not in the range of ①, the AD users can't login although their record have been mirrored to ITA.</p> <p>①【basedn】 of 『DomainController_1(DomainController_2)(DomainController_3)』 ②【basedn】 of 『Replication_Connect』</p> <p>Please refer to "System configuration/environment construction guide - ActiveDirectory association function" for details</p> |
| Q-9 | Is it possible to specify multiple OU when specifying search range with OU? |

| No | Content |
|------|--|
| A-9 | <p>No.</p> <p>In case of specifying multiple OU, please create a OU at the layer above those OU and specify it as the search range.</p> |
| Q-10 | Is it possible to perform AD association function to ITA with Azure ActiveDirectory (referred to as Azure AD below)? |
| A-10 | No. |
| Q-11 | Sometimes the group name of group created or edited in Azure AD will not reflect to the role name on ITA when using the AD association function of ITA to associate with the AD synchronizing to Azure AD with "Azure AD Connect" |
| A-11 | <p>The group name that the AD association function obtains is the sAMAccountName of the group.</p> <p>As the product specifications of AD, group names created or edited on Azure AD are not necessarily reflected to sAMAccountName on AD. If they are not reflected, they will not be reflected in role names on ITA.</p> <p>※For detailed specification of AD, please refer to the support or official document of Microsoft.</p> |