

ITA_User Instruction Manual

Role-based access control for

data records

-Version 1.9 -

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% [Exastro IT Automation] is written as [ITA] in this document.

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Introduction

This document explains the functions and operation methods of the role-based access control for data records (RBAC).

1 Overview of role-based access control for data records (RBAC).

Access for each data record can be controlled by assigning a role that allows access for each user and data record.

If the features above are not going to be used, please leave the default access permission roles blank.

In this document, "Role-based access control for data records (RBAC)" is hereinafter written as "Role-based access control (RBAC)".

2 Main functions of role-based access control (RBAC)

The main functions of role-based access control (RBAC) fall in the following categories.

≻ Web

Web content. A screen where you can use the menu creation function provided by the browser.

BackYard

Resident process that runs on the server independently of the web contents.

3 Role link for each user

To perform role-based access control (RBAC), set up roles that allow access permission for each user. For example, we will explain the following procedure (chapter $3.1 \sim 3.4$) based on the registration example in "Table 3-1".

Chapter/	Table 3-1 Chapters	and registration	-	
-	「Management Console」menu		Register exa	ampie
Section	group			
3.1	^Γ Role listJMenu	Role_A Role_B		
3.2	「Role/Menu link list」Menu			
		Role	Menu	Link
		Role_A	Menu_A	
		Role B	Menu A	
		 Role_B	 Menu_B	
3.3	「User list」Menu			
		User_A User_A User_B		
3.4	「Role/User link list」Menu			
		Role	User	Default access permission
		Role_A	User_A	•
		Role_B	User_B	•
-	^୮ Menu listJMenu			
*		Menu		
		Menu_A		
		Menu_B		
	1	1		

Table 3-1 Chapters and registration example

%For details about create menu, please refer to "ITA_User_Instruction_Manual_Menu_creation_function".

The above "Table 3-1" is mapping in the following relationship.



Pattern	Descriptions
а	Accesible since the roles fits.
b	Not accesible since the roles does not fit.
с	If the "Permission role" is blank, it can be accessed by all users.
d	Accessable because no linking is set in the "Role/Menu link list menu.

Figure 3-1 Overall view

In the case of "Pattern: d" above, the following dialog will be displayed.



Figure 3-2 Dialog displayed when display permission is not available

For example, if "User_A" tries to access "Menu_B" which is not linked, the user will be redirected to the top page because he does not have permission to access the menu.

3.1 Design roles to control access and register for role list

Design a role that is going to control access and register it from the "Management Console" menu group> "Role list" menu.

Exastr IT Automati		ble						User nan Change pas	ne [System Administrator] Login ID [administrator] sword Logout
≡ Menu									
Main menu	Description								⊽Open
System settings	Display filter								⊽Open
Menu group list	List/Update								∆Close
Menu list	History Update Discard Role ID	Role name	User information	Menu information	Access permission	Remarks	Last update date/time@	Last updated by	
Role list	History Update Discard	System Administrate	User information	Menu information	Role to allow access		2015/04/01 10:00:00	System Administrator	
User list	History Update Discard 2,100,000,	SSO Default Role	User information	Menu information		SSO Default Role	2015/04/01 10:00:00	System Administrator	
Role • Menu link list	Filter result count: 2								

Figure 3.1-1 "Management Console" Menu Group> "Role list" Menu

- \diamond A role has two functions.
- ① Menu access permissions

Access permission to each menu is registered from the "Management Console" Menu group > "Role/Menu link list" Menu.

Menu list	Register						∆Clos
Role list	Item No.	Role	(ID: Name)*	Menu group: Menu		Last update date/time	Last updated by
User list Role/Menu link list	Auto-input	1:System Administra	ator v	2100011612:Reference:6:With operation	•	Auto-input	Auto-input
Role/User link list	•						•
Sequence list	*is a rec	juired item.		_			
Single-sign-on Basic Preference		Back	Register				



2 Roles for data records

Roles assigned to each user's data are registered from the "Management Console" Menu Group> "Role/User link list" Menu.

Menu list		Register									∆Close
Role list	1			(m.)				A	ccess permission		
User list		Item No.	ROI	e (ID name)	•	User ID: Login ID*	Default access permission	Setting	Role to allow access	Last update date/time	Last updated by
Role/Menu link list		Auto-input	1:System Administr	ator •		1:administrator 💌	• -	Setting		Auto-input	Auto-input
Role/User link list		4									þ.
Sequence list		≪*is a rec	quired item.								
Single-sign-on Basic Preference			Back		Register						

Figure 3.1-2 "Management Console" Menu Group> "Role/User link list" Menu

The following roles are registered when ITA is installed by default. Please do not change/update them.



Figure 3.1-3 "Management Console" Menu Group> "Role list" Menu

In addition, this document describes "(2) roles given for each data record" of the two roles. (In Figure 3-1, "Pattern: a, b, and c" is applicable.)

For "(1) Access permission to menus", please refer to

"ITA_User_Instruction_Manual_Management Console." (In Figure 3-1, "Pattern: d" is applicable.)

3.2 Role and menu registration in role/menu link list.

Register a link between each role and menu in the "Management Console" menu group > "Role/Menu link list".

Newly registered roles will be required to have it linked to each menu in the "Role/Menu link list" menu.

Menu group list	List/Upd	late								
Menu list	History	Undate	Discard	Item No.⇔		Role		Menu group		Menu
Role list	history	opuace	biscuru		ID⇔	Name\ominus	ID⇔	Name 🔶	ID⇔	Name🔶
KUIE IISL	History	Update	Discard		1	System Administrator	00011610	Input	1	Test Menu 1
User list	History	Update	Discard		1	System Administrator	00011611	Substitution value	2	Test Menu 1
	History	Update	Discard		1	System Administrator	00011612	Reference	3	<u>Test Menu 1</u>
Role • Menu link list	History	Update	Discard		1	System Administrator	20011610	Input	4	Test Parameter
Role • User link list	History	Update	Discard		1	System Administrator	00011611	Substitution value	5	Test Parameter
	History	Update	Discard		1	System Administrator	00011612	Reference	6	Test Parameter
Sequence list	History	Update	Discard		1	System Administrator	20011610	Input	Z	Durectirt Creation
Single-sign-on Basic	History	Update	Discard		1	System Administrator	00011611	Substitution value	8	Durectirt Creation
Preference	History	Update	Discard						_	

Figure 3.2-1 "Management Console" Menu Group> "Role/Menu link list" Menu

The "System Administrator (role)" is linked to all menus by default when installing ITA. Please do not change/update it.

History	Undata	Discard	Item No.⇔		коте		Menu group		Menu
HISCONY	opuace	DISCAPU	Item NO.	ID⇔	Name⇔	ID⇔	Name\ominus	ID⇔	Name👄
History	Update	Discard	1		System Administrator	2100011610	Input	1	<u>Test Menu 1</u>
History	Update	Discard	2		System Administrator	2100011611	Substitution value	2	Test Menu 1
History	Update	Discard	3		System Administrator	2100011612	<u>Reference</u>	3	Test Menu 1
History	Update	Discard	4		System Administrator	2100011610	Input	<u>4</u>	Test Parameter
History	Update	Discard	5		System Administrator	2100011611	Substitution value	5	Test Parameter
History	Update	Discard	6		System Administrator	2100011612	Reference	<u>6</u>	Test Parameter
History	Update	Discard	7		System Administrator	2100011610	Input	Z	Durectirt Creation
History	Update	Discard	8		System Administrator	2100011611	Substitution value	<u>8</u>	Durectirt Creation
History	Update	Discard	9		System Administrator	2100011612	Reference	2	Durectirt Creation

Figure 3.2-2 "Management Console" Menu Group> "Role/Menu link list" Menu

Assume that "Menu_A" and "Menu_B" are created.

For details about create manu, please refer to "ITA_User_Instruction_Manual_Menu_creation_function".

Exastro	Input				<u>a</u>	User name [System Administrator Login ID [administrator nange password Logout
∃ Menu Main menu	Description					⊽Open
Timezone list	Display filter					∆Close
Directory setting	Discard	No	Host name/Host group na	me ID	Last update date/time	Last updated by
directory creation Pulldown	Exclude discarded records v	✓ Search from pulldown	Search from pulldown	▼ Search from pulldown		Search from pulldown
Data sheet menu						
With operation	4					•
Menu_A Menu_B	Filter	Clear filter				



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3.3 User (Accounts) with user list registration

Register a user (Account) from the "Management Console" menu group > "User list" menu.

Role list	List/Upd	late							
User list									
Role • Menu link list	History	Update	Discard	User ID⊖	Login ID⇔	Login Password	User name≑	Mail address⊖	Role information
	History	Update	Discard	1	administrator	******	System Administrate	sample@xxx.bbb.ccc	Role information
Role • User link list	History	Update	Discard	2	User_A	******	User_A		Role information
Sequence list	History	Update	Discard	3	User_B	*****	User_B		Role information
	4				3		<u> </u>		

Figure 3.3-1 "Management Console" Menu Group> "User list" Menu

The following users (accounts) are registered by default when installing ITA. Please do not change/update them.

History	Update	Discard	User ID⊜	Login ID≑	Login Password	User name⊜	Mail address≑	Role information
History	Update	Discard	1	administrator	*****	System Administrator	sample@xxx.bbb.ccc	Role information

Figure 3.3-2 "Management Console" Menu Group> "User list" Menu

3.4 Registration of link between user and role in the Role/User list

Register the user-role link "Management Console" menu group > "Role/User link list" menu. When registering new data, if you specify it as the default role to be granted to the data, the setting is performed in the "Default access permission" column.

By setting "•" in the "Default access permission" column, it will be a role (Permission role) set as the default when registering new data.

Role list	L	.ist/Upd	ate										
User list	H	History	Update	Discard	Item No.⇔		Role		User	Default access permissi	.on ⇔	Access permission	Remarks⇔
Role • Menu link list		History	Update	Discard	1	ID 🖨	Name⇔ System Administrator		De Login IDe 1 administrato			Role to allow access⇔	System Administr
Role • User link list		History History	Update	Discard Discard	2	2	Role_A		2 User_A	•			
Sequence list	-	History	Update	Discard	3	2	Role_B	_	3 User_B	·			

Figure 3.4-1 "Management Console" Menu Group> "Role/User link list" Menu

If RBAC is not going to be implemented, please leave the "Default access permission" field blank.

The following user/role link will be registered by default when installing ITA. Please do not change/update them.



Figure 3.4-2 "Management Console" Menu Group> "Role/User link list" Menu

4 Role link for data

In the following explanation, assumes that "Table 4-1" will be set below.

	Table 4-1 Menu	and registration examp	le		
No.	Menu	Registra	tion example		
1	「Management Console」Menu group>	System Administrator, Ma	anager_Company_A,		
	Role list Jmenu	Company_A_KANTO, Co	ompany_A_KANSAI,		
		Manager_Company_B, C	Company_B_KANTO,		
		Company_B_KANSAI,			
2	「Management Console」Menu group>				
	^Γ User listJmenu	Login ID	User name		
		administrator	System administrator		
		A_admin	Admin_Company_A		
		A_user01	Company_A_user01		
		A_user02	Company_A_user02		
		A_user03	Company_A_user03		
		B_admin	Admin_Company_B		
		B_user01	Company_B_user01		
		B_user02	Company_B_user02		
		B_user03	Company_B_user03		
3	「Management Console」Menu group>				
	「Role/User link list」menu	ロール	User name		
		System Administrator	System Administrator		
		Manager Company A	System Administrator,		
			Admin_Company_A (•)		
			System Administrator,		
		Company_A_KANTO	Admin_Company_A,		
			Company_A_user01 (●),		
			Company_A_user03		
			System Administrator,		
		Company A KANSAI	Admin_Company_A,		
			Company_A_user02 (●),		
			Company_A_user03		
		Manager_Company_B	System Administrator,		
			Admin_Company_B (•)		
			System Administrator,		
		Company_B_KANTO	Admin_Company_B,		
			Company_B_user01 (●),		
			Company_B_user03		
			System Administrator, Admin Company B,		
		Company_B_KANSAI,	Company_B_user02 (●),		
			Company_B_user02 (●), Company B_user03		
		Default access permit			
4	Management Console Monu groups	Default access permit Basic Console (Monu gr			
4	「Management Console」Menu group>	i basic Console Jivienu gr	oup > ^Γ Operation list」menu		

Table 4-1 Menu and registration example

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ſMenu listjmenu		
「Management Console」Menu group>		
「Role/Menu link list」menu	Role	Menu
	System Administrator,	「Basic Console」Menu
	Manager_Company_A,	group >
	Company_A_KANTO,	Coperation list
	Company_A_KANSAI,	
	Manager_Company_B,	
	Company_B_KANTO,	
	Company_B_KANSAI,	

No.1) "Role list" menu reflecting the registration example in "Table 4-1"

Menu group list	List/Upd	late						
Menu list	History	Update	Discard	Role ID⇔	Role name⇔	User information	Menu information	Acces Role to
Role list	History	Update	Discard		. System Administrator	User information	Menu information	KOIE LO
User list	History	Update	Discard		Manager_Company_A	User information	Menu information	
	History	Update	Discard		Company_A_KANTO	User information	Menu information	
Role • Menu link list	History	Update	Discard		Company_A_KANSAI	User information	Menu information	
Role • User link list	History	Update	Discard		Manager_Company_B	User information	Menu information	
	History	Update	Discard		Company_B_KANTO	User information	Menu information	
Sequence list	History	Update	Discard		Company_B_KANSAI	User information	Menu information	
Single-sign-on Basic	History	Update	Discard	2,100,000,00	SSO Default Role	User information	Menu information	
Preference	Filter resul	t count: 8				.		

Figure 4-1 "Management Console" menu group > "Role list menu"



Menu list	List/Update												
Role list													
User list	History	Update	Discard	User ID≑	Login ID⇔	Login Password	User name⊖	Mail address⇔					
Role • Menu link list	History	Update	Discard	1	administrator	******	System Administrator	ample@xxx.bbb.cc					
	History	Update	Discard	4	A_admin	******	Admin_Company_A						
lole • User link list	History	Update	Discard	5	A_user01	******	Company_A_user01						
aguanaa liat	History	Update	Discard	6	A_user02	******	Company_A_user02						
Sequence list	History	Update	Discard	7	A_user03	******	Company_A_user03						
ingle-sign-on Basic	History	Update	Discard	8	3_admin	******	Admin_Company_B						
reference	History	Update	Discard	9	3_user01	******	Company_B_user01						
ingle-sign-on Attribute	History	Update	Discard	10	3_user02	******	Company_B_user02						
Preference	History	Update	Discard	11	3_user03	*****	Company_B_user03						

Figure 4-2 "Management Console" Menu group > "User list" Menu

"Role/User link list" menu reflecting the registration example in "Table 4-1"

	List/Upd								
nenu						Role	I	lser	
n settings	History	Update	Discard	Item No.⇔	ID⇔			Login ID⊜	Default access permission
group list	History	Update	Discard	:	1	System Administrator	1	administrator	
roup list	History	Update	Discard	4	<u>4</u>	Manager_Company_A	1	administrator	
	History	Update	Discard	e	<u>5</u>	Company_A_KANTO	1	administrator	
	History	Update	Discard	10	<u>6</u>	<u>Company_A_KANSAI</u>	1	administrator	
	History	Update	Discard	14	Z	<u>Manager_Company_B</u>	1	<u>administrator</u>	
	History	Update	Discard	16	<u>8</u>	Company_B_KANTO	1	<u>administrator</u>	
	History	Update	Discard	20	9	<u>Company_B_KANSAI</u>	1	<u>administrator</u>	
link list	History	Update	Discard	-	4	<u>Manager_Company_A</u>	<u>4</u>	<u>A_admin</u>	•
link list	History	Update	Discard	1	<u>5</u>	Company_A_KANTO	<u>4</u>	<u>A_admin</u>	
t	History	Update	Discard	1:	<u>6</u>	<u>Company_A_KANSAI</u>	<u>4</u>	<u>A_admin</u>	
	History	Update	Discard		<u>5</u>	Company_A_KANTO	<u>5</u>	A_user01	•
n Basic	History	Update	Discard	1	<u>6</u>	<u>Company_A_KANSAI</u>	<u>6</u>	A_user02	•
	History	Update	Discard	4	<u>5</u>	Company_A_KANTO	Z	A_user03	
8 4 4 - ⁻¹	History	Update	Discard	1	<u>6</u>	<u>Company_A_KANSAI</u>	Z	A_user03	
Attribute	History	Update	Discard	1	Z	<u>Manager_Company_B</u>	<u>8</u>	<u>B_admin</u>	•
	History	Update	Discard	1	<u>8</u>	Company_B_KANTO	<u>8</u>	<u>B_admin</u>	
	History	Update	Discard	2:	<u>9</u>	<u>Company_B_KANSAI</u>	<u>8</u>	<u>B_admin</u>	
	History	Update	Discard	1	<u>8</u>	Company_B_KANTO	9	<u>B_user01</u>	•
	History	Update	Discard	2	9	Company_B_KANSAI	<u>10</u>	<u>B_user02</u>	•
	History	Update	Discard	19	8	Company_B_KANTO	<u>11</u>	B_user03	
	History	Update	Discard	2	<u>9</u>	Company_B_KANSAI	<u>11</u>	B_user03	

Figure 4-3 "Management Console" Menu group > "Role/User link list" Menu

Role name User name (Login ID)	System administrator		Company_A_KANTO	Company_A_KANSAI	Manager_Company_B	Company_B_KANTO	Company_B_KANSAI
System Administrator (administrator)	0	0	0	0	0	0	0
Manager_Company_A (A_admin)		•	0	0			
Company_A_user01 (A_user01)			•				
Company_A_user02 (A_user02)				•			
Company_A_user03 (A_user03)			0	0			
Manager_Company_B (B_admin)					•	0	0
Company_B_user01 (B_user01)						•	
Company_B_user02							•

Table 4-2 List of Settings for "Role/User link list"

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No.3)

(B_user02)				
Company_B_user03				
(B_user03)				•

•: With link in Role/User link list. Set "•" with default access permission

O: With link in Role/User link list. Set the "Default access permission" to be blank.

No.4) "Role/Menu link list" menu reflecting the registration example in "Table 4-1"

New roles needs to be linked to a menu. This can be done in "Role/Menu link list" menu.

The following assumes that each role is getting linked to "Basic Console" menu group > "Operation list" menu.

User list	List/Upo	List/Update												
Role · Menu link list	History	History Update Di		Item No.⇔	Role		Menu group		Menu					
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				ID⇔	Name 🖨	ID⇔	Name 🖨	ID⇔	Name 🖨				
Role • User link list	History	Update	Discard	15	4	Manager_Company_A	2100000003	Basic Console	2100000304	Operation list				
Sequence list	History	Update	Discard	16	5	Company_A_KANTO	2100000003	Basic Console	2100000304	Operation list				
	History	Update	Discard	17	<u>6</u>	<u>Company_A_KANSAI</u>	2100000003	Basic Console	2100000304	Operation list				
Single-sign-on Basic Preference	History	Update	Discard	18	Z	<u>Manager_Company_B</u>	2100000003	Basic Console	2100000304	Operation list				
	History	Update	Discard	19	8	Company_B_KANTO	2100000003	Basic Console	210000304	Operation list				
Single-sign-on Attribute	History	Update	Discard	26	2	Company_B_KANSAI	100000003	Basic Console	2100000304	Operation list				
Preference	History	Update	Discard	2,100,000,202	1	<u>System Administrator</u>	2100000002	Management Console	2100000202	<u>System settings</u>				

Figure 4-4 "Management Console" Menu group > "Role/Menu link list" Menu

Example) If user "B_admin" is logged in



	Basic Console							ne (B_admin) (D (B_admin)
IT Automatio	'n					(hange password	Logout
∃ Menu								
Main menu	Description							⊽Open
Device list	Display filter							∆Close
Input operation list	Discard	No.	Operation ID	Operation name	Scheduled date	Last update date/time	Last updat	ed by
Movement list	Exclude discarded records 🗸	~	~			~		
		Search from pulldown	 Search from pulldown 	 Search from pulldown 			 Search from 	pulldown
	4							
	Filter	Clear filter						
	Auto-filter							

Figure 4-5 "Management Console" Menu group > "Input operation" Menu

4.1 New data

It is possible to set "access permissions" for data when registering it.

The following figure 4.1-1,"Basic Console" menu group > "Operation list" shows the data registration sub menu (operation).

Exastre	Basic Console		n Administrator] [administrator]
	n	Change password	Logout
∃ Menu			
Main menu	Description		⊽Open
Device list	Display filter		⊽0pen
Input operation list	List/Update		⊽Open
Movement list	Register A		∆Close
	No. Operation ID Operation name Scheduled date for execution Access permiss /n Remarks Last update date/time Auto-input Auto-input Setting Ole to allow access Auto-input **'is a required item. Book Register B	e Last updated by Auto-input	

Figure 4-5 "Basic Console" Menu group > "Operation list" Menu

A. "Role to allow access" column.

The role that grants access to data records will be displayed. The default permission access role will be displayed in the "Permission role" column. If no default permission access role is set, it will be blank.

Only the user linked with the permission role can view/change the data. If the permission role is blank, all users can view/change the data.

If Role-based access control (RBAC) is not getting implemented, do not set any permission roles.

※1 Default Permission roles

Roles with "•" selected in the "Default permissions" column of the "Role/User link list" menu will have their role name displayed in the "permission role" column when registering by default.

Exastre Management Console												
≡ Menu												
Main menu	Descript	Description										
System settings	Display filter											
Menu group list	List/Upo	st/Update										
Menu list						Role	U	ser				
Role list	History	Update	Discard	Item No.⇔	ID⇔	Name⊖	User ID⊖	Login ID€	Default access permis	ion⊜		
KUIE IISL	History	Update	Discard	5	4	Manager_Company_A	<u>4</u>	<u>A_admin</u>	•			
User list	History	Update	Discard	8	5	Company_A_KANTO	5	A_user01	•			
Role • Menu link list	History	Update	Discard	12	<u>6</u>	<u>Company_A_KANSAI</u>	<u>6</u>	A_user02	•			
Role • Menu IIrik IIst	History	Update	Discard	15	Z	Manager_Company_B	8	<u>B_admin</u>	•			
Role · User link list	History	Update	Discard	18	<u>8</u>	Company_B_KANTO	<u>9</u>	<u>B_user01</u>	•			
	History	Update	Discard	22	9	Company_B_KANSAI	<u>10</u>	<u>B_user02</u>	•			
Sequence list	Filter resul	t count: 6	5							•		

Figure 4.1-2 "Management Console" Menu group > "Role/User link list" Menu

Example) If user "A_user03" is logged in.

User "A_user03" is not set to "Default permissions", so by default, nothing will be displayed in the "Permission role" column when registering.

Exastr	Basic Console	User name [A_User03] Login ID [A_User03]	
≡ Menu		Change password Logout	
<u>–</u> Menu Main menu	Description	⊽0¢	en
Device list	Display filter	⊽0;	en
Input operation list	List/Update	⊽0;	en
Movement list	Register	∆0k	15E
	No. Operation ID Operation name Scheduled date for execution Access permission Auto-input Auto-input Carry W"is a required item.	Remarks Last update date/time Last updated by Auto-input Auto-input	

Figure 4.1-3 "Basic Console" Menu group > "Operation list" Menu

Example) If "B_user02" is logged in.

Since User "B_user02" is set to "Default permissions", the role set to it will be displayed in the "permission role" column by default when registering.

Exastro	Basic Console	User name [Company_B_user02] Login ID [B_user02] Change password Logout
∃ Menu Main menu Operation list	Description List/Update	⊽Open ⊽Open ⊽Open
	Register	∆Close
	No. Operation name Scheduled date for execution Access permission etting Last update Auto-input	date/time Last updated by
	K*is a required item. Back Register	•

Figure 4.1-4 "Basic Console" Menu group > "Operation list" Menu

B. [Settings]column

If you want to change the permission role, click the "Setting" button. A dialog box where users can change permission role will be displayed.

The dialog box displays a list of roles linked to the user from the user in the "Role/User link list" menu.

Select permission role then press the "Decision" button

The selected role will be mirrored "Permission role" column. If the "Decision" button is clicked without any role selected, the "Permission role" field will be left blank

If the "Permission role" is blank, the data can be viewed/changed by all users. Clicking the "register" button will register all the contents displayed in the "permission role" column.

Example) If user "A_user03" is logged in.

The roles linked to user "A_user03", "Company_A_KANTO" and "Company_A_KANSAI" will be displayed in a dialog box



Figure 4.1-5 Changing permission role dialog

4.2 Updating Data

Roles that grants permission to data records will be displayed in the "Permission role" column. Change the permission role as needed.

Operation list	List/Upda	ite				
Movement list	Register					
ER Diagram		a (1 15				Access permission
ER Diagram Menu List	No.	Operation ID	Operation name*	Scheduled date for execution*	Setting	Role to allow access
	Auto-input	Auto-input	Ope_sample3	2021/06/03 14:09	Setting	Company_A_KANTO, Company_A_KANSAI
ER Diagram Item List						
	×*ic p ro	quired item.				

Figure 4.2-1 "Basic Console" Menu group > "Input operation" Menu

4.2.1 Handling discarded roles

If a role is abolished in "Basic Console" Menu group > "Role list" Menu, it will be display in "Permission role" column as "ID conversion failure".

Example) If Role "A_user01" is abolished,

Exastro IT Automation	Ва	sic Console					
∃ Menu							
Main menu	Descri	otion					
Device list	Display	ı filter					
Input operation list	List/Up	odate					
Movement list						Access permission	
	No.	Operation ID	Operation name	Scheduled date for execution	Setting	Role to allow access	
	3	3	Cope_sample3	2021/01/01 14:00	Setting	A_user01,ID conversion failed	Γ
	<						
	*is a	a required item.					
		Back	Update				

Figure 4.2-2 "Basic Console" Menu group > "Input operation" Menu

If the "update" button is clicked when the screen is the same as "Figure 4.2-2", Abolished roles will be deleted from the column. (In this case, (ID Conversion Failure) disappears and only A_user01 will be displayed).

Exastro IT Automation	Ba	sic Console							
∃ Menu						_			
Main menu	Descrip	tion							
Device list	Display filter								
Input operation list	List/Up	date							
Movement list	No.						Access permi	ission	
	NO.	Operation ID	Operation name	Schedule	ed date for execution	Setting	Role to allow :	access	
	3	3	Coldwere Contraction	2021,	/01/01 14:00	Setting	A_user01		
	<								
		required item.							
		Back	Update						

Figure 4.2-3 "Basic Console" Menu group > "Input operation" Menu

Unless the "Update" button in the "List/Update" sub menu is pressed, any abolished roles will remain in the "Permission role" and will be displayed as "ID conversion failure".

4.2.2 Handling roles no longer linked to users/roles

If a role link is abolished in the "Management Console" menu group > "Role/User list" menu, the abolished role will be displayed as ***** in the "Permission Role" column.

example)Abolishing the link between "B_user03" and "Company_B_KANSAI" and logging in as User "B_user03".

Exastro IT Automation	Ba	asic Cor	nsole					
≡ Menu								
Main menu	Descr	ription						
Operation list	Displa	ay filter						
	List/Update							
					Access permission			
	No.	Operation ID	Operation name*	Scheduled date for execution*	Setting	Role to allow access		
	3	3	ope_sample3	2021/06/04 14:18	Setting	Company_B_KANTO,*******(9)		
	•							
	is≫	a required iten	۱.					
		Back		Update				

Figure 4.2-3 "Basic Console" Menu group > "Input operation" Menu

The "Permission role" column will not change even if the update button is clicked when the screen is the same as Figure "Figure 4.2-3".

If you want to remove the "*******" display from the "Permission role" column, press the "Setting" button on the "List/Update" sub menu to display the dialog and press the "Decision" button.

F	Role sele	ect	\times
	Select	ID	Name
	>	8	Company_B_KANTO
			Decision Cansel

Figure 4.2-4 "Role select" Screen

Exastro IT Automation	Basic C	Console						
⊒ Menu								
Main menu	Description							
Operation list	Display filter							
	List/Update							
	No. Operation	ID Operati	on name* Sched	luled date for	• execution*	AC	cess permission Role to allow access	
	3	3 Ope_samp	e3 2021/	06/04 14:18		Setting	Company_B_KANTO	
	4							
	**is a required	d item.						
	Bad	ck	Upda	te				

Figure 4.2-5 "Basic Console" Menu group > "Input operation" Menu

Unless you press the "Decision" button on the dialog, abolished role will remain in the "Permission role" column with the display "*******".

4.2.3 When specific data is shared by multiple roles

If data has multiple permission roles registered for it, roles without a link from the "Role/User link list" menu will be displayed as "******" in the "Permission role" column.

Example)Logging in as B_user03 and registering data in the "Permission role" column in the default state.

	Basic	: Console							User r Change pa	Login	iny_B_user03] ID [B_user03] Logout
∃ Menu	_							_			
Main menu	Descriptior	1									⊽Open
Operation list	Display filt	er									⊽Open
	List/Updat	e									△Close
	*List is display	ved here.									
	Register										△Close
	No.	Operation name*	Scheduled date for e	execution*	Setting	Access permi Role to a	ssion llow access	Last updat	e date/time	Last upda	ted by
	Auto-input:	ope_sample4	2021/06/04 14:25		Setting	Company_B_KANTO	,Company_B_KANSAI	Auto-input		Auto-input	
	•										•
	≪*is a req	uirea item.									
		Back	Register								

Figure 4.2-6 "Basic Console" Menu group > "Input operation" Menu

Log in as user "B_user01".User "B_user01" is not linked to the role "B_user02". Roles that are not linked will be displayed as "******** in the Permission role display.

Exastre IT Automatio	Basic Console	User name [Company_B_user01] Login ID [B_user01] Change password Logout
≡ Menu		
Main menu	Description	⊽Open
Operation list	Display filter	⊽Open
	List/Update	∆Close
	No. ation ID Operation name Scheduled date for execution Setting Role to allow access	e date/time Last updated by
	4 4 0pe_sample4 2021/06/04 14:25 Setting Company_B_KANTO,*******(9) Auto-input 4	Auto-input
	is a required item.	
	Back Update	

Figure 4.2-7 "Basic Console" Menu group > "Input operation" Menu

The permission role column will not change even if the update button is clicked when the screen is the same as Figure "Figure 4.2-7".

If you want to remove the "*******" from the "Permission role" column, press the "Setting" button to display the dialog and press the "Decision" button.



Figure 4.2-8 "Role select" Screen

Exastre	Basic Console	User name [Company_B_user01] Login ID [B_user01]
	n	Change password Logout
⊒ Menu		
Main menu	Description	⊽Open
Operation list	Display filter	⊽Open
	List/Update	∆Close
	No. ation ID Operation name* Scheduled date for execution Access permission Last update 4 4 ope_sample4 2021/06/04 14:25 Setting Company_B_KANITO Auto-input	e date/time Last updated by Auto-input
	***is a required item. Back Update	

Figure 4.2-9 "Basic Console" Menu group > "Input operation" Menu

Unless you press the "Decision" button on the dialog, the abolished role will remain in the "Permission role" column with the display "*******".

4.3 Data restoration

Abolishing the data will not change the permission role.

4.4 Data restore

Restoring the data will not change the permission role.

4.5 Upload from Excel

The following information registered based on "Table 4-1" is used to explain the information below.

History	Update	Discard	Item No.⇔		Role	U	ser	Dofault	access permission (
HISCORY	opuace	Discaru	Item No.	ID⇔	Name🔶	User ID⊜	Login ID🔶	Default	ccess permission
History	Update	Discard	11	<u>6</u>	<u>Company_A_KANSAI</u>	<u>4</u>	<u>A_admin</u>		
History	Update	Discard	7	5	Company_A_KANTO	4	<u>A_admin</u>		
History	Update	Discard	9	<u>4</u>	Manager_Company_A	<u>4</u>	<u>A_admin</u>	•	
History	Update	Discard	8	<u>5</u>	Company_A_KANTO	5	A_user01	•	
History	Update	Discard	12	<u>6</u>	<u>Company_A_KANSAI</u>	<u>6</u>	A_user02	•	
History	Update	Discard	13	<u>6</u>	<u>Company_A_KANSAI</u>	Z	A_user03		
History	Update	Discard	9	<u>5</u>	Company_A_KANTO	Z	A_user03		

Figure 4.5-1 "Basic Console" Menu group > "Role/User link list" Menu

If an excel file is downloaded from the button below, the user's default permission role will be displayed in the "Permission role" column in the blank row of the downloaded Excel.

List/Upc	late					Download all and edit file uploads				
History	Update	Discard	No.⇔	Operation ID⊖	Operation name⊖					
History	Update	Discard	1	1	Test Operation	Download all (Excel)				
History	Update	Discard	2	2	Test Operation User03					
History	Update	Discard	3	3	ope_sample3					
History	Update	Discard	4	4	ope_sample4	Download for new registration (Excel)				
4										
Filter resul	t count: 4	ł								
	Output E	cel								



Notes		Execution process type	Discard	No.	Operation ID	Operation name	Scheduled date for execution	Last execution date	Access permission Role to allow access	Remarks	Last update date/time	Last updated by
: Required	Register		×	×	×	•	•	x	0	•	×	x
: Optional	Upadate		×	×	×	•	•	x	0	0	×	x
: Cannot edit	Discard		×	×	×	×	×	×	×	0	×	x
	Restore		×	×	×	×	×	×	×	0	×	×
K: Line break O	K/NG: No line break		NG	NG	NG	NG	NG	NG	NG	OK	NG	NG
	Other notes	Select processing type.	Discard flag. Cannot d operation other that restore.	not edit bec	Operation ID (auto numbering)	[Maximum length] 256 bytes	Not used in the system	Date/time when the operation was actually performed.	The role that allows access to the record. If you want to allow access to multiple roles, separate the roles with comma (,).	s section. Can comment when	Last update date of record. Useful for judging the possibility of an update. Cannot edit because of auto- numbering.	Updated by. Login user ID is automatically registered. Cannot edit.
		Execution process type	Disca	• •	Operation II 👻	Operation name	Scheduled date for execution	Last execution date	Role to allow access	Remai -	Last update date/tir 🝷	Last updated by 💌
				1	1	Test Operation	2021/05/20 15:23	2021/05/27 15:26		Test	2021/05/27 15:26:27	LegacyRole execution p
				2	2	Test Operation User03	2021/05/06 14:05		Company_A_KANTO, Company_A_KANSAI		2021/05/31 14:05:40	Company A user03
		-							Manager_Company_A			
									Manager_Company_A			
									Manager_Company_A			
									Manager_Company_A			
									Manager_Company_A			
				-					Manager_Company_A			
									Manager_Company_A			
									Manager_Company_A			
		•		-					Manager_Company_A Manager_Company_A			
									V = 1 /=			

Example) If user is logged in as user "A_admin" and downloads the excel file.

Figure 4.5-3 Download from "Excel Output" button > "List/Update" sub menu

If you're uploading from Excel, make sure that the "Permitted Roles" column has a role set that is within the range of roles linked to the "Management Console" menu group > "Role/User link list" menu.

If you want to set multiple roles, separate them with commas.

Example) Example: Setting within the scope of the role linked with the user

Login user	Configuration value of permission role
A_admin	Manager_Company_A, Company_A_KANTO, Company_A_KANSAI
A_user01	Company_A_KANTO
A_user02	Company_A_KANSAI
A_user03	Company_A_KANTO, Company_A_KANSAI

Table 4.5-1 List of "Figure 4.5-1"

(1) Register

Example) If logged in as user "A_admin" and downloaded to excel.

Notes		Execution process type	Discard		Operation ID	Operation name	Scheduled date for execution	Last execution date	Access permission Role to allow access	Remarks	Last update date/time
: Required	Register		×	×	×	•	•	×	0	0	x
: Optional : Cannot edit	Upadate		×	×	x	•	•	x	0	۰	x
Cannot edit	Discard		×	×	x	x	×	x	x	۰	x
	Restore		×	×	×	x	×	×	x	٥	×
C: Line break OF	K/NG: No line break		NG	NG	NG	NG	NG	NG	NG	OK	NG
	Other notes	Select processing type.	flag. Cannot do operation other than	not edit bec	Operation ID (auto numbering)	[Maximum length] 256 bytes	Not used in the system	Date/time when the operation was actually performed.	If you want to allow access to multiple roles, separate the roles with comma ().	s section. Can comment when	Last update date of record. Useful for judging the possibility of an update. Cannot edit because of auto- numbering.
		Execution process type	Disca 🕶	1 -	Operation II 💌	Operation name	Scheduled date for execution	Last execution date 💌	Role to allow access 🗸	Remai 🕶	Last update date/tir 💌
		-		1	1		2021/05/20 15:23	2021/05/27 15:26		Test	2021/05/27 15:26:27
			-	5	5	Test Operation Uper02	2024/05/05 44-05		Company & KANTO, Company & KANSAI		2021/05/31 14:05:40
		Register				Ope_sample10	2021/05/06 14:05		Manager_Company_A, Company_A_KANTO, Company_A_KANSAI		
	_	-							Inlanager_Company_A		
		-							Manager_Company_A		
									Manager_Company_A		
		-							Manager_Company_A		
									Manager_Company_A		
									Manager_Company_A		
		-							Manager_Company_A	1	
		-							Manager_Company_A		
									Manager_Company_A		
		-							Manager_Company_A		
and the first shares	this line and insert to incr	and the lines				1					

Enter the required information as shown in the red frame in the figure below.

Figure 4.5-4 Output updated excel

When you upload the updated Excel (Fig. 4.5-4) from the "File upload" button of the "Basic Console" menu group> "Operation list" menu> "Download all and edit file upload" submenu, the data will be registered and added to the "List/Update" sub menu.

List/Up	date									∆Close
History	Update	Discard	No.⇔	Operation ID⊖	Operation name😝	Scheduled date for execution⊖	Last execution date	Access p Role to al	Last update date/time⊖	Last updated by⊖
History	Update	Discard	1	1	Test Operation	2021/05/20 15:23	2021/05/27 15:26		2021/05/27 15:26:27	LegacyRole execution procedure
History	Update	Discard	2	2	Test Operation User03	2021/05/06 14:05		Company_A_KANTO, Company	2021/05/31 14:05:40	Company_A_user03
History	Update	Discard	5	5	Ope_sample10	2021/06/03 15:19		Manager_Company_A,Company	2021/05/31 15:19:36	Admin_Company_A



(2) Update

Set the role within the permission role set in the update record, but If you want to share data with multiple users and want to keep the role not associated with the login user, please set the role name as ***** (Role ID).

Example) If you want to leave a role that is not linked to a login user

Login user	Access permission role setting value
A_admin	Manager_Company_A, Company_A_KANTO, Company_A_KANSAI
A_user01	********(2), Company_A_KANTO, *******(4)
A_user02	********(2), *******(3), Company_A_KANSAI
A_user03	*******(2), Company_A_KANTO, Company_A_KANSAI

Table 4.5-2 Configuring permission roles for update records

	Basic Console				User i Change pa	name [Company_A_user01] Login ID [A_user01] ssword Logout
Ξ Menu Main menu	Description					⊽Open
Operation list	Display filter List/Update					⊽Open
			Ac	cess permission		
		eduled date for execution*	Setting	Role to allow access *(4),Company_A_KANTO,*******(6)	Last update date/time Auto-input	Last updated by Auto-input
	*is a required item. Back	Update				,

Figure 4.5-6 List/Update sub menu when login "A_user01"

(3) Abolition/Revival

Aolbiting/reviving will not change the permission role.

If the permission role is blank, all users can view/change the data (When uploading from Excel, the permission role is automatically specified %Figure 4.5-3).

If role based access control (RBAC) is not input, do not set the permission role.

4.6 Uploading from RestAPI

Uploads from RestAPI (Registration, update, abolition, revival) are similar to "4.5 Upload from Excel".

However, Unlike uploading from Excel, "Permission role" is not specified by default.

Upload source	Default value	Result when registered with default values
Excel	The default permission role for the logged in user is specified. (Figure 4.5-3).	
RestAPI	Unspecified	Data can be reference to all users

Table 4.6-1 Differences in default values by upload source

When uploading from RestAPI, "Unspecified permission role" is the default.

If the "Permission Role" column is blank, all users can view/change the data, so please be careful if there is data that you do not want to view/change from other than a specific role.

If you want to narrow down the number of users who view/change data, please upload the permission role after specifying it.

If Role-based access control (RBAC) is not getting implemented, do not set any permission roles.

4.6.1 EDIT (X-Command)

For details on how to operate from RestAPI, please refer to

"ITA_User_Instruction_Manual_RestAPI ".

%"FILTER (X-Command)" will be described in <u>"5.4 RestAPI display filter</u>".

If you want to register or update data from RestAPI, set the access permission role to be within the range of roles linked with the user in the "Management Console" menu group > "Role/User link list" menu.

If you want to set multiple roles, separate them with commas.

If permission role field is blank, all users can view/change the data.

If Role-based access control (RBAC) is not getting implemented, do not set any permission roles.

5 Display restrictions for linked roles.

This and any subsequent chapters assumes that the following data has been registered in the "Basic Console" menu group -> "Operation list" menu.

Exastre	Basic C	onsole							er name (System Administra Login ID (administra password Logout
∃ Menu									
Main menu	Description								⊽Open
Device list	Display filter								⊽Open
Operation list	List/Update								∆Close
Movement list	History Updat	e Discard N	lo.⊕ Operatic	on ID 🕀 Operation name 🕀	Scheduled date for execution	Last execution date	Access permission Role to allow access	Last update date/time⊕	Last updated by⊖
ER Diagram	History Update	Discard	6	6 ope_sample1	2021/05/31 15:30		System Administrator,Manager_Company_A,Company_A_KANTO, Company_A_KAN	2021/05/31 15:30:44	System Administrator
ER Diagram Menu List	History Update	Discard	7	7 ope_sample2	2021/05/31 15:30		System Administrator,Manager_Company_A,Company_A_KANTO	2021/05/31 15:31:25	System Administrator
FR 01 Re 114	History Update	Discard	8	<pre>8 ope_sample3</pre>	2021/05/31 15:30		System Administrator,Manager_Company_A, Company_A_KANSAI	2021/05/31 15:31:45	System Administrator
ER Diagram Item List	History	Discard	9	9 ope_sample4	2021/05/31 15:30		System Administrator,Manager_Company_A	2021/05/31 15:32:09	System Administrator
	History Update	Discard	10	10 ope_sample5	2021/05/31 15:30		System Administrator	2021/05/31 15:32:24	System Administrator
	History Update	Discard	11	11 ope_sample6	2021/05/31 15:30		System Administrator, Manager_Company_A, Company_A_KANTO, Company_A_KAN	2021/05/31 15:32:46	System Administrator
	History Update	Discard	12	12 ope_sample7	2021/05/31 15:30		System Administrator,Manager_Company_B	2021/05/31 15:33:12	System Administrator
	History Update	Discard	13	13 ope_sample8	2021/05/31 15:35		System Administrator,Manager_Company_B,Company_B_KANTO	2021/05/31 15:33:36	System Administrator
	History Update	Discard	14	14 ope_sample9	2021/05/31 15:35		System Administrator,Manager_Company_B,Company_B_KANSAI	2021/05/31 15:33:56	System Administrator
	4								•

Figure 5-1 "Basic Console" Menu group > "Input operation" Menu"

User name (Login ID)	ope_ sample1	ope_ sample2	ope_ sample3	ope_ sample4	ope_ sample5	ope_ sample6	ope_ sample7	ope_ sample8	ope_ sample9
System Administrator (administrator)	•	•	٠	•	•	٠	٠	•	•
Manager_Company_A (A_admin)	•	٠	٠	•		٠			
Company_A_user01 (A_user01)	•	٠				٠			
Company_A_user02 (A_user02)	•		٠			٠			
Company_A_user03 (A_user03)	•	٠	٠			٠			
Manager_Company_B (B_admin)						٠	٠	•	•
Company_B_user01 (B_user01)						٠		•	
Company_B_user02 (B_user02)						•			•
Company_B_user03 (B_user03)						•		•	•

Table 5- Data list displayed per user

◆ : Data to be displayed by each user

5.1 Display list

≣ Menu	List/Upd	late		_					
am menu									
NAMES OF TAXABLE IN CONTRACTOR OF	History	Undate	Discard	Item No.A					Default access permission
system settings					10.0	Name	User ID®	Login IDO	and an and a second permitted as
lenu group list	History	Updete	Discard		1	System Administrator	1	administrator	
	History	Update	Discard	4	4	Hanager_Cospany_A	1	administrator	
lenu list	History	Update	Discerd		5	Connany_A_KANTO	1	administrator	
1000	History	Updete	Discard	20	2	COMBANY A KANSAI	1	administrator	
ole list	History	Update	Discard	34	2	Hanagen_Company_8	1	administrator	
ser list	History	Opdate	Discard	16	1	Company B KANTO	3	administrator	
	History	Update	Discard	20	2	Company_B_KAVISAT	1	administrator	
ole - Menu link list	History	Update	Discard	-	4	Hanager_Concatry_A	4	A_admin	•
ole - User link list	History	Update	Discard		5	Consany A KANTO	4	A_admin	
one occes man not	History	Update	Discard	11	0	CORDANY A KAWSAT	4	A_admin	
equence list	History	Update	Discard		5	Company_A_KANTO	5	A_usere1	•
ingle-sign-on Basic	History	Update	Discard	1	ti .	CORDANY A XAUSAL	\$	A_user@2	
reference	History	Update	Discord		5	Consany_A_KANTO	Z	A_user@3	
	History	Update	Discard	1	ő	Company A KANSAI	2	A_user#3	
ingle-sign-on Attribute reference	History	Update	Discard	1	2	Manager Corpany E	8	E_admin	•
THE CALC	History	Update	Discard	1	1	Concany B_KANID	8	E_admin	
ersion	History	Update	Discard	2	9	CORDANY B KANSAL		B_admin	
	History	Update	Discard	1	8	Conserv_B_KANTO	9	B_user@1	•
	History	Updete	Discard	2.	9	Conserv_B_KAKSAI	10	R_user@2	•
	History	Update	Discard	1		Concent B_KANTO	1.000	Lusec01	
	History	Update	Discard	2		Conceny_B_KANSAI		E_user@3	

The data displayed in the "List/Update" submenu will be the data that has been assigned to the

access permission role by the role linked with the user in the "Management Console" menu group > "Role/User Association Management" menu.

Figure 5.1-1 "Role/User link list" menu reflecting "Table 4-1"

5.1.1 Login results for each user

> User name: System Administrator (Login ID: administrator)

If the user is logged in as "Administrator", the following data will be display in the "Basic Console" menu group > "Operation list" menu.

Operation	n name/	ope_								
User nam	e(Login ID)	sample1	sample2	sample3	sample4	sample5	sample6	sample7	sample8	sample9
System A	dministrator	•	•	•	•	•	•	•	•	•

 Table 5.1-1 "Table 5-1"Extract

enu	_							
nenu	Description							⊽Ор
list	Display filter							⊽Ор
list	List/Update							∆Cla
tion list	List/Opdate							
ent list	History Update Di	scard No.⇔	peration ID� Operation nam		Last execution date⊖		Last update date/time🔶	Last updated by (
gram	History Update D	iscard 6	6 ope_sample1	2021/05/31 15:30		System Administra	2021/05/31 15:30:44	System Administrato
gram Menu List	History Update D	iscard 7	7 ope_sample2	2021/05/31 15:30		System Administra	2021/05/31 15:31:25	System Administrate
gram Item List	History Update D	iscard 8	<pre>8 ope_sample3</pre>	2021/05/31 15:30		System Administra	2021/05/31 15:31:45	System Administrate
ram item List		iscard 9	9 ope_sample4	2021/05/31 15:30			2021/05/31 15:32:09	System Administrate
		iscard 10	10 ope_sample5	2021/05/31 15:30			2021/05/31 15:32:24	System Administrate
	History Update D	iscard 11	11 ope_sample6	2021/05/31 15:30		System Administra	2021/05/31 15:32:46	System Administrato
	History Update D	iscard 12	12 ope_sample7	2021/05/31 15:30		System Administra	2021/05/31 15:33:12	System Administrato
	History Update D	iscard 13	13 ope_sample8	2021/05/31 15:35		System Administra	2021/05/31 15:33:36	System Administrate
	History Update D	iscard 14	14 ope_sample9	2021/05/31 15:35		System Administra	2021/05/31 15:33:56	System Administrate
	4							
	Filter result count: 9		14 obe ⁷ aubtea	2841(9)/31 15:33		System Administra	2021/03/31 12:33:30	System Administr
	Register							∆Clo

Figure 5.1-2 List/Update sub menu when logged in as "administrator"

The link between user "administrator" and each role is as follows. (Excerpted from Table 4-1).

Role name User name⇒ (Login ID) ≠	System		Company_A_KANTO	Company_A_KANSAI	Manager_Company_B	Company_B_KANTO	Company_B_KANSAI
System Administrator (administrator) •	0+	0.0	O +	0 0	0.0	с + O	0 +


> User name: Manager_Company_A (User ID:A_admin)

If the user is logged in as "A_admin", the following data will be displayed in the "Basic Console" menu group > "Operation list" menu.

Operation name/	ope_	ope_		ope_	ope_	ope_	ope_	ope_	ope_
User name(Login ID)	sample1	sample2		sample4	sample5	sample6	sample7	sample8	sample9
A_admin	•	•	•	•		•			

Table 5.1-3 "Table 5-1" Excerpt

	Basic Console						ser name [Admin_Company_A] Login ID [A_admin] Password Logout
E Menu Main menu Operation list	Description Display filter						⊽Open ⊽Open
	List/Update						∆Close
	History Update Discard No. History Update Discard History Update Discard	Operation ID Operation name ope_sample1 ope_sample2 ope_sample3 ope_sample4 il ope_sample6	Scheduled date for execution 2021/05/31 15:30 2021/05/31 15:30 2021/05/31 15:30 2021/05/31 15:30 2021/05/31 15:30	Last execution date	********(1),Manage ********(1),Manage ********(1),Manage	Last update date/time@ 2021/05/31 15:30:44 2021/05/31 15:31:25 2021/05/31 15:31:45 2021/05/31 15:32:09 2021/05/31 15:32:46	Last updated by System Administrator System Administrator System Administrator System Administrator



The link between user "A_admin" and each role is as follows. (Excerpted from Table 4-1).

Role name User name⇒ (Login ID) +	System administrator	Manager_Company_A	Company_A_KANTO	Company_A_KANSAI	Manager_Company_B	Company_B_KANTO	Company_B_KANSAI
Manager_Company_A (A_admin)		••	O۴	O۴			

 Table 5.1-4 "Table 4-1" Excerpt

User name: Company_A_user01 (User ID:A_user01)

If the user is logged in as "A_user01", the following data will be displayed in the "Basic Console" menu group > "Operation list" menu.

Operation name/ User name(Login ID)	ope_ sample1			ope_ sample5	ope_ sample6	ope_ sample7	ope_ sample8	ope_ sample9
A_user01	•	•			•			

Table 5.1-5 "Table 5-1" Excerpt

Exastro	Basic Console					ser name [Company_A_user01] Login ID [A_user01] e password Logout
≡ Menu						
Main menu	Description					⊽Open
Operation list	Display filter					⊽Open
	List/Update					∆Close
	History Update Discard No.🔶	Operation ID⊜ Operation name⊖	Scheduled date for execution⊜	Last execution Last up	date date∕time⊖	Last updated by⊜
	History Update Discard 6	6 ope_sample1	2021/05/31 15:30	2021/05/3	31 15:30:44	System Administrator
	History Update Discard 7	7 ope_sample2	2021/05/31 15:30	2021/05/3	31 15:31:25	System Administrator
	History Update Discard 11	11 ope_sample6	2021/05/31 15:30	2021/05/	31 15:32:46	System Administrator
	Image: state of the state o					>

Figure 5.1-4 List/Update sub menu when logged in as "A_user01"

The link between user "A_user01" and each role is as follows. (Excerpted from Table 4-1).

Role name User name∞ (Login ID) ∉	System administrator	Manager_Company_A	Company_A_KANTO	Company_A_KAN SAI	Manager_Company_B	Company_B_KANTO	Company_B_KAN SAI
Company_A_user01 (A_user01).			• ¢				

Table 5.1-6 "Table 4-1" Excerpt

User name:Company_A_user02 (User ID:A_user02)

If the user is logged in as "A_user02", the following data will be displayed in the "Basic Console" menu group > "Operation list" menu.

Operation name/	ope_								
User name(Login ID)	sample1	sample2	sample3	sample4	sample5	sample6	sample7	sample8	sample9
A_user02	•		•			•			

Table 5.1-7 "Table 4-1" Excerpt

Exastre IT Automatio	Bas	ic Co	onsole	9						ser name [Company_A_use Login ID [A_use e password Logout
∃ Menu	Descript	ion								⊽Open
lain menu	· ·									
operation list	Display	filter								⊽Open
	List/Upo	late								∆Close
	History	Update	Discard	No.¢	Operation ID🔶	Operation name🖨	Scheduled date for execution⇔	Last execution	Last update date/time⊖	Last updated by🔶
	History	Update	Discard			ope_sample1	021/05/31 15:30		2021/05/31 15:30:44	System Administrator
	History	Update	Discard		٤	ope_sample3	021/05/31 15:30		2021/05/31 15:31:45	System Administrator
	History	Update	Discard	1	. 11	ope_sample6	:021/05/31 15:30		2021/05/31 15:32:46	System Administrator

Figure 5.1-5 List/Update sub menu when logged in as "A_user02"

The link between user "A_user02" and each role is as follows. (Excerpted from Table 4-1)

Role name User name⊳ (Login ID) ⊬	System administrator	Manager_Company_A	Company_A_KANTO	Company_A_KAN SAI	Manager_Company_B	Company_B_KANTO	Company_B_KAN SAI	1
Company_A_user02 (A_user02) v				€ø				•

Table 5.1-8 "Table 4-1" Excerpt

User name:Company_A_user03 (User ID:A_user03)

If the user is logged in as "A_user03", the following data will be displayed in the "Basic Console" menu group > "Operation list" menu.

Operation name/	ope_								
User name(Login ID)	sample1	sample2	sample3	sample4	sample5	sample6	sample7	sample8	sample9
A_user03	•	•	•			•			

Table 5.1-9 "Table 5-1" Excerpt

Exastro IT Automation	Basic Console					er name [Company_A_user03 Login ID [A_user03 password Logout
≡ Menu						
Main menu	Description					⊽Open
Operation list	Display filter					⊽Open
	List/Update					△Close
	History Update Discard No.€	Operation ID⇔ Operation name⇔	cheduled date for execution⊖	Last execution	Last update date/time⊖	Last updated by⊖
	History Update Discard	6 ope_sample1	021/05/31 15:30		2021/05/31 15:30:44	System Administrator
	History Update Discard	7 ope_sample2	021/05/31 15:30		2021/05/31 15:31:25	System Administrator
	History Update Discard	8 ope_sample3	021/05/31 15:30		2021/05/31 15:31:45	System Administrator
	History Update Discard 1	11 ope_sample6	021/05/31 15:30		2021/05/31 15:32:46	System Administrator
	Filter result count: 4 Output Excel					



The link between user "A_user03" and each role is as follows. (Excerpted from Table 4-1)

Role name User name⇒ (Login ID) ≠	System	Company_A_KANTO	Company_A_KANSAI	Manager_Company_B	Company_B_KANTO	Company_B_KANSAI
Company_A_user03 (A_user03) @		0 v	0 e			

Table 5.1-10 "Table 4-1" Excerpt

User name: Admin_Company_B (User ID:B_admin)

If the user is logged in as "B_admin", the following data will be displayed in the "Basic Console" menu group > "Operation list" menu.

Operation name/ User name(Login ID)	ope_ sample2		ope_ sample5	ope_ sample6		ope_ sample8	ope_ sample9
B_admin				•	•	•	•

Table 5.1-11 "Table 5-1" Excerpt

lenu	Description				⊽Ope
menu					vopc
ation list	Display filter				⊽Ope
	List/Update				△Clos
	History Update Discard No.⊖	Operation ID⇔ Operation name⇔	Scheduled date for execution⇔ Last execut	ion Last update date/time⇔	Last updated by≑
	History Update Discard 1	11 ope_sample6	2021/05/31 15:30	2021/05/31 15:32:46	System Administrato
	History Update Discard 1	12 ope_sample7	2021/05/31 15:30	2021/05/31 15:33:12	System Administrato
	History Update Discard 1	13 ope_sample8	2021/05/31 15:35	2021/05/31 15:33:36	System Administrato
	History Update Discard 14	14 ope_sample9	2021/05/31 15:35	2021/05/31 15:33:56	System Administrato
	4)

Figure 5.1-7 List/Update sub menu when logged in as "B_admin"

The link between user "B_admin" and each role is as follows. (Excerpted from Table 4-1)

Role name User name (Login ID) ↔	System administrator	Company_A_KANTO	Company_A_KANSAI	Manager_Company_B	Company_B_KANTO	Company_B_KANSAI
Manager_Company_B (B_admin) -				• •	0+	0 +

Table 5.1-12 "Table 4-1" Excerpt

User name:Company_B_user01 (User ID: B_user01)

If the user is logged in as "B_user01", the following data will be displayed in the "Basic Console" menu group > "Operation list" menu.

Operation name/ User name(Login ID)				ope_ sample8	ope_ sample9
B_user01			•	•	

Table 5.1-13 "Table 5-1" Excerpt

	Basic Console	User name [Company_B_user01 Login ID [B_user01 Change password Logout
≡ Menu		
Main menu	Description	⊽Open
Operation list	Display filter	⊽Open
	List/Update	△Close
	History Update Discard No. 🔶 Operation ID 🖯 Operation name 🍎 Scheduled date for execution 🔶 Last execution Last update da	ate/time⊖ Last updated by⊖
	History Update Discard 1 11 ope_sample6 2021/05/31 15:30 2021/05/31 15:30	2:46 System Administrator
	History Update Discard 11 13 ope_sample8 2021/05/31 15:35 2021/05/31 15:35	13:36 System Administrator
	Filter result count: 2	
	Output Excel	

Figure 5.1-8 List/Update sub menu when logged in as "B_user01"

The link between user "B_user01" and each role is as follows. (Excerpted from Table 4-1).

Role name User name⇒ (Login ID) ⊬	System	Company_A_KANTO	Company_A_KANSAI	Manager_Company_B	Company_B_KANTO	Company_B_KANSAI
Company_B_user01 (B_user01) @					• •	

Table 5.1-14 "Table 4-1" Excerpt

User name:Company_B_user02 (User ID:B_user02)

If the user is logged in as "B_user02", the following data will be displayed in the "Basic Console" menu group > "Operation list" menu.

Operation name/ User name(Login ID)	ope_ sample2	ope_ sample3	ope_ sample5	ope_ sample6	ope_ sample8	ope_ sample9
B_user02				•		•

Table 5.1-15 "Table 4-1" Excerpt

	Basic Consol	2					er name [Company_B_user02] Login ID [B_user02] password Logout
Ξ Menu Main menu	Description						⊽Open
Operation list	Display filter						⊽Open
	List/Update						∆Close
	History Update Discard	No.⇔ Operation ID⊖ (Dperation name⊖	icheduled date for execution \$	Last execution	Last update date/time⊖	Last updated by⊖
	History Update Discard History Update Discard			021/05/31 15:30 021/05/31 15:35		2021/05/31 15:32:46 2021/05/31 15:33:56	System Administrator System Administrator
	Filter result count: 2 Output Excel						Table setting

Figure 5.1-9 List/Update sub menu when logged in as "B_user02"

The link between user "B_user02" and each role is as follows. (Excerpted from Table 4-1)

Role name User name∘ (Login ID) ⊬	System administrator	Company_A_KANTO	Company_A_KANSAI	Manager_Company_B	Company_B_KANTO	Company_B_KANSAI
Company_B_user02 (B_user02) +						• •

Table 5.1-16 "Table 4-1" Excerpt

User name:Company_B_user03 (User ID:B_user03)

If the user is logged in as "B_user03", the following data will be displayed in the "Basic Console" menu group > "Operation list" menu.

Operation name/ User name(Login ID)	ope_ sample1	ope_ sample2	ope_ sample4	ope_ sample5		ope_ sample7	ope_ sample8	ope_ sample9
B_user03					•		•	•

Table 5.1-17 "Table 5-1" Excerpt

Exastre	Basic Console					Iser name [Company_B_user03] Login ID [B_user03] e password Logout
⊒ Menu						
Main menu	Description					⊽Open
Operation list	Display filter					⊽Open
	List/Update					∆Close
	History Update Discard No.	Operation ID⇔ Operation name⇔	Scheduled date for execution≑	Last execution	Last update date∕time∉	⊨ Last updated by≑
	History Update Discard	11 ope_sample6	2021/05/31 15:30	1	2021/05/31 15:32:46	System Administrator
	History Update Discard	13 ope_sample8	021/05/31 15:35		2021/05/31 15:33:36	System Administrator
	History Update Discard	14 ope_sample9	2021/05/31 15:35		2021/05/31 15:33:56	System Administrator
	Filter result count: 3 Output Excel					Table setting

Figure 5.1-10 List/Update sub menu when logged in as "B_user03"

The link between user "B_user03" and each role is as follows. (Excerpted from Table 4-1)

Role name User name (Login ID)	System	Company_A_KANTO	Company_A_KANSAI	Manager_Company_B	Company_B_KANTO	Company_B_KANSAI
Company_B_user03 (B_user03) @					تو	• •

Table 5.1-18 "Table 4-1" Excerpt

5.2 Trace history

Only the data will be displayed in the "List/Update" sub menu can also be displayed in the "Trace History" sub menu. Also, the history will be assigned the access permission role.

Example) If the user is logged in as "B_user02".

The data will be displayed in the "List/Update" sub menu (Operation ID: 6, 9) can be displayed in the "Trace History" sub menu.

Exastre	Basic Co	onsole						r name [Company_B_user02] Login ID [B_user02]
							Change	password Logout
E Menu	Description							⊽Open
Operation list	Display filter							⊽Open
-	List/Update							∆Close
	History Update	Discard No.🔶	Operation ID⊖ O	Operation name	Scheduled date for execution	Last executio	n Last update date/time⊖	Last updated by
	History Update	Discard 11	11 o	pe_sample6	2021/05/31 15:30		2021/05/31 15:32:46	System Administrator
	History Update	Discard 14	14 0	pe_sample9	2021/05/31 15:35		2021/05/31 15:33:56	System Administrator
Trace history								∆Close
Trace history								∆Close
Trace history								∆Close
		Reset						∆Close
No. 11 Display	nge date/time [Operation ID C	Operation name	Scheduled date for execut	tion Last La	ast update date/time	∆Close Last updated by
No. 11 Display History log No. Char	nge date/time 1 /05/31 15:32:46			Operation name pe_sample6	Scheduled date for execut 2021/05/31 15:30			Last updated by ystem Administrator
No. 11 Display History log No. Char		Discard No. (-				Last updated by
No. 11 Display History log No. Char		Discard No. (-				Last updated by ystem Administrator
No. 11 Display History log No. Char 15 2021/		Discard No. (-				Last updated by ystem Administrator
No. [1] Display History log No. Char 15 2021/ 4 No. [4 Display		Discard No. (11 Reset		pe_sample6		20	21/05/31 15:32:46 S	Last updated by ystem Administrator

Figure 5.2-1 "Basic Console" Menu group > "Operation list" Menu".

Keep in mind that data which users do not have permission to access cannot be displayed.

Exasti IT Automat	Basic Console			[B_user02] Login ID[B_user02]
	lion		Change passw	ord Logout
∃ Menu				
Main menu	Trace history			∆Close
Device list	No.			
Input operation list	Display	Reset		
Movement list	Corresponding record does not ex	iist.		



The data granted by the role linked to the user in the "Role/User link list" can be viewed in the "Change history" submenu.

Example)Example)If user is logged in as "B_user02". Roles linked in the "Role/User link list" menu of user "B_user02".

Exastr IT Automat	🔂 Manag	ement	Console						Cha		mpany_B_user02] gin ID [B_user02] Logout
≡ Menu											
Main menu	Description										⊽Open
Role • User link list	Display filter										⊽Open
	List/Update					△Close					
	History Upda	te Discard :	Item No.🔶 ID令	Role Name⇔	User User ID⊜ Lo	Det	fault access perm	ission⊜ Ro	Last update date/tim	e⊜ Last upd	ated by⊜
	History Upda	te Discard	<mark>22</mark> 9	Company_B_KANSAI	10 B_0	user02 •			2021/05/27 19:20:19	System Adm	inistrator
	•										•

Figure 5.2-3 "Basic Console" Menu group > "Role/User link list" Menu".

Data assigned to the role linked in the user's "Role/User link list" Menu".	Data assigned to the role I	linked in the user's	"Role/User link list	" Menu".
---	-----------------------------	----------------------	----------------------	----------

Exastre	Basic Console	User name [Company_B_user02] Login ID [B_user02] Change password Logout
⊒ Menu		
Main menu	Description	⊽Open
Operation list	Display filter	⊽Open
	List/Update	⊽Open
	Register	⊽Open
	Download all and edit file uploads	⊽Open
	Trace history	∆Close
	No. [1] Display Reset	
	History log No. Change date/time Discard No. Operation ID Operation name Scheduled date for execution Last Last update da	te/time Last updated by
	15 2021/05/31 15:32:46 11 11 ope_sample6 2021/05/31 15:30 2021/05/31 15:32	:46 System Administrator

Figure 5.2-4 "Basic Console" Menu group > "Role/User link list" Menu".

If a new permission role is granted for the data displayed in the "Trace history" sub menu, data linked with previous roles with different permission roles will not be displayed.

Example) if Data from Company A is passed to Company B.

This section uses the data of user "A_admin" and "B_admin" to explain the permission roles when data is passed from "Company A" to "Company B".

▲ ★ ■ Exastro **Basic Console** ∃ Menu Description Display filter ⊽Open List/Update Operation list △Close Remarks⇔ listory Update Discard No.⇔ eration ID� Operation nam Last update date/time⊖ Last updated by⊖ 2021/05/31 15:30:44 System Administrator 6 ope_sample1 7 ope_sample2 ecret 1 2021/05/31 18:21:54 System Administrato Secret 2 2021/05/31 18:22:19 System Administrato 8 ope_sample3 9 ope_sample4 Secret 3 2021/05/31 18:22:35 System Administrator 10 ope_sample5 2021/05/31 15:32:24 System Administrato 11 ope_sample6 2021/05/31 15:32:46 System Administrator 12 12 ope sample7 External secret 2021/05/31 18:23:18 System Administrator 13 13 ope_sample8 External secret 2021/05/31 18:23:05 System Administrato 14 System Administrator 14 ope_sample9 xternal sec 2021/05/31 18:22:53 result count: 9

The following figure shows the "Operation list" menu when logged in as "Administrator".

Figure 5.2-5 "Basic Console" Menu group > "Operation list" Menu"

We've divided the data into two colors. Data marked with red can be seen by Company A's side (User: A_admin) and data marked with blue can be seen by Company B's side (User: B_admin). (Please refer to figure "A_admin" and "B_admin" for the respective displays when logging in as User "Figure 5.1-4" and "Figure 5.1-8".) respectively. Additionally, "Top Secret 1-3" and "External secret 1-3" are registered in the "Remarks" Column as information that you do not want to be seen by other roles.

The next assumes a case where Company_A delivers data to Company_B. First, delete Secret 1~3 from Company_A's side and then Change the operation 1, 2, 3, 4's Access permission role to "Manager Company B".

List/Update \triangle Close					
No. peration ID Operation name Sche	eduled date for execution	Access permission 7 Role to allow access	Remarks	Last update date/time	Last updated by
6 6 0pe_sample1 2021	1/05/31 15:30 Settin	Manager_Company_B		Auto-input	Auto-input
**is a required item. Back					



If the user logs out as "Administrator" and log back in as "B_admin", the "list/update" submenu will show a total of eight operation IDs: ID: 1, 2, 3, 4, 6, 7, 8, 9".



Figure 5.2-7 "Basic Console" Menu group > "Operation list" Menu"

If you check the display in the "Trace History" submenu for "Operation ID: 1,2,3,4" where the access permission role was changed, the data linked to different past roles (Company A Side) will not be displayed.

	User name [Admin_Company_ Login 1D (B. admin Change password Logout	
≡ Menu		-
 Main menu	Trace history \triangle Close	
Operation list	No. 6	
	Display Reset	
	History log No. Change date/time Discard No. Operation ID Operation name Scheduled date for execution Last Last update date/time Last updated by	
	25 2021/05/31 18:48:24 6 6 ope_sample1 2021/05/31 15:30 2021/05/31 18:48:24 System Administrator	
	No. 7	
	Display Reset	
	History log No. Change date/time Discard No. Operation ID Operation name Scheduled date for execution Last Last update date/time Last updated by	
	26 2021/05/31 18:48:54 7 7 ope_sample2 2021/05/31 15:30 2021/05/31 18:48:54 System Administrator	
	No. 8	
	Display Reset	
	History log No. Change date/time Discard No. Operation ID Operation name Scheduled date for execution Last Last update date/time Last updated by	
	27 2021/05/31 18:49:07 8 8 0 ope_sample3 2021/05/31 15:30 2021/05/31 18:49:07 System Administrator	
	No. [8]	
	Display Reset	
	History log No. Change date/time Discard No. Operation ID Operation name Scheduled date for execution Last Last update date/time Last updated by	
	28 2021/05/31 18:49:24 9 9 ope_sample4 2021/05/31 15:30 2021/05/31 18:49:24 System Administrator	



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User name [Admin_Company_B] Login ID [B_admin] Exastro IT Automation **Basic Console** = Menu Description Display filter Operation list List/Update △Close History Update Discard No.↔ Operation ID↔ Operation na Remarks👄 Last update date/time⇔ Last updated by⇔ External secret1 2021/05/31 19:03:58 Admin_Company_B History Discard 6 6 ope_sample1 External secret2 2021/05/31 19:04:10 History 7 7 ope_sample2 Admin_Company_B External secret3 2021/05/31 19:04:23 8 8 ope_sample3 Admin_Company_B External secret4 2021/05/31 19:05:28 9 9 ope_sample4 Admin_Company_B System Administrator 11 11 ope_sample6 021/05/31 15:32:46 External secret5 2021/05/31 19:05:17 12 12 ope_sample7 Admin_Company_B External secret6 2021/05/31 19:05:04 Admin_Company_B 13 tory 13 ope_sample8 Discard 14 14 ope_sample9 External secret7 2021/05/31 19:05:44 Admin_Company_B Filter result count: 8

For "Operation ID: 1, 2, 3, 4, 7, 8, 9" rewrite the remarks column to "Confidential 1~7".

Figure 5.2-9 "Basic Console" Menu group > "Operation list" Menu"

As a result of specifying the data of "Operation ID: 2" in the "Trace History" submenu, the "Top Secret 1" registered when the role was "Company A Side" will not be displayed, and only the "External Secret 2" registered this time will be displayed.

Exastre IT Automatio	Basic Console	User name [Admin_Company_B] Login ID [B_admin] Change password Logout
≡ Menu		
Main menu	Description	⊽Open
Operation list	Display filter	⊽Open
	List/Update	⊽Open
	Register	⊽Open
	Download all and edit file uploads	⊽Open
	Trace history	∆Close
	No. 6	
	Display Reset	
	History log No. Change date/time Discard No. Operation ID Operation name Access permission Remarks Last update date/time Last up	dated by
	29 2021/05/31 19:03:58 6 6 ope_sample1 Manager_Company_B External secret1 2021/05/31 19:03:58 Admin_Comp	any_B
	25 2021/05/31 18:48:24 6 6 ope_sample1 Manager_Company_B 2021/05/31 18:48:24 System Adm	inistrator

0

Figure 5.2-10 "Basic Console" Menu group > "Operation list" Menu"

5.3 Display filter

Only the data displayed in the "List/Update" sub menu can be narrowed down by the "Display filter" sub menu.



Figure 5.3-1 List/Update sub menu when the "Filter" button is pressed in user "administrator"

Exastre	Basic Console					Cha	User name [Company_A_use Login ID [A_use nge password Logout
lenu	Description						⊽Ope
ation list	Display filter						∆Clos
	Discard	No.	Operation ID	Operation name	Sche	Last update date/time	Last updated by
	Exclude discarded records 🗸		▼ Search from pulldown	ope_ ▼ Search from pulldown		~	▼ Search from pulldown
	Filter	Clear filter					Table setting
	Z Auto-filter						
	List/Update						∆Clos
	History Update Discard No	.⊖ Operation ID⊖ Operation	name⊖ Remarks⊖ Last updat	e date∕time⊖ Last upda	ted by⊖		
	History Update Discard	11 11 ope_sample6	2021/05/31	15:32:46 System Admi	nistrator		

Figure 5.3-2 List/Update sub menu when the "Filter" button is pressed as user "A_user01"

In the "Access permission" column of the "Display filter" sub menu, users can search in the following pattern.

Exastre IT Automation	Basic Console			Ch	User name [System Administrator] Login ID [administrator] ange password Logout
E Menu Main menu Device list	Description Display filter				⊽0pen ∆Close
Input operation list Movement list	Discard Exclude discarded records V	No. e ∼ Search from pulldown	Access permission Role to allow access Search from pulldown	Last update date/time	Last updated by
	∢ Filter ✓ Auto-filter	Glear filter			

Figure 5.3-3 "Basic Console" Menu group > "Operation list" Menu"

	Table 5.3-1 Search pattern					
No.	Pattern					
1	Search by single selection in the pull-down menu					
2	Search by multiple selection in the pull-down menu					
3	Search by "{blank}" single selection in the pull-down menu					
4	Search by selecting "{blank}" and others in the pull-down menu					
5	Fuzzy search with keywords in string input					
6	Search by entering a real role name in the string input					
7	Search for multiple role names separated by commas in string input.					

Keep in mind that if a comma is used in the string input field as a pattern that cannot be searched for, fuzzy search cannot be performed.

The search patterns no.1 - 7 are explained in detail in the next section.

No.1) Search by single selection in the pull-down menu

Example) Search results obtained by logging in as "Administrator" and selecting the access permission role " System administrator" in the pull-down menu of the "Access permission" column.

Exastro	Basic Console	User name [System Administrator] Login ID (administrator)
IT Automation		Change password Logout
≡ Menu		
Main menu	Description	⊽0pen
Device list	Display filter	∆Close
Operation list	Discard No.	Access permission Last update date/time Last updated by
Movement list	Exclude discarded records	Role to allow access
ER Diagram	▼ Search from pulldown	System Administrator
ER Diagram Menu List	4	
ER Diagram Item List	Filter Clear filter	
En blugrum term tax	Mauto-niter	
	List/Update	∆Close
	History Update Discard No. 🕀 Operation ID 🕀 Operation nam	e⇔ Remarks⇔ Last update date/time⊕ Last updated by⊕
	History Update Discard 10 10 ope_sample5	2021/05/31 15:32:24 System Administrator



No.2) Search by multiple selection in the pull-down menu

Example) Search results obtained by logging in as "Administrator" and selecting the access permission role " Company_A_KANSAI" and "B Kansai Department" in the pull-down menu of the "Access permission" column.

Exastre	Basic Console						2	hange password Lo
nu enu	Description							⊽(
ist	Display filter							۵
ion list	Discard	No.	ution date		Access permiss Role to allow a		Last update date/time	Last updated b
ent list ram	Exclude discarded records 🗸	▼ Search from pulidown		Company_A_KANSAI	Company_B_KANSAI			Search from pulldo
am Menu List am Item List	Filter	Clear filter						
	Auto-hiter							
	List/Update							Δ(
			Access pe	Remarks 🖨	Last update date/time⇔	Last updated by		
	History Update Discard No.	Dperation ID ⊕ Opera 8 0pe_sa	Role to all	ow access	t3 2021/05/31 19:22:22 S	System Administrator		



No.3) Search by "Blank" single selection in the pull-down menu

Example) Search results obtained by logging in as "Administrator" and selecting the access permission role "{blank}" in the pull-down menu of the "Access permission" column.

	Basic Console				_	User name [System Administrator] Login ID [administrator] Inge password Logout
≡ Menu						
Main menu	Description					⊽Open
Device list	Display filter					∆Close
Operation list	Discard	No. e		Access permiss Role to allow ac	Last update date/time	Last updated by
Movement list	Exclude discarded records 🗸	▼ Search from pulldown			~ [Search from pulldown
ER Diagram	4	• search from pulldown	×{Blank}			search from pundown
ER Diagram Menu List	Filter	Clear filter				
ER Diagram Item List	Auto-niter					
	List/Update					∆Close
	History Update Discard No	D.⊖ Operation ID⊖ Operation name⊖	Access permission ple to allow access⇔	Last update date/time⇔	Last updated by⇔	
	History Update Discard	11 11 ope_sample6	· · · ·	2021/05/31 19:27:22	System Administrator	
	Filter result count: 1					

Figure 5.3-6 "Basic console" Menu group > "Operation list" Menu

No.4) Search by "Blank" and other multiple selection in the pull-down menu Search results obtained by logging in as "Administrator" and selecting the access permission role "{blank}" and "Manager_Company_Aistrator" in the pull-down menu of the "Access permission" column.

Exastro	Basic Console					User name [System Administrator Login ID [administrator
IT Automation					0	nange password Logout
∃ Menu						
lain menu	Description					⊽Open
evice list	Display filter					∆Close
Operation list	Discard	No.		permission allow access	Last update date/time	Last updated by
Movement list	Exclude discarded records 🗸	~			~ [
ER Diagram		 Search from pulldown 	×{Blank}) × Manager_Company	y_A)		 Search from pulldown
R Diagram Menu List	1					4
R Diagram Item List	Filter	Clear filter				
	Auto-filter					
	List/Update					∆Close
	History Update Discard No.	⊕ Operation ID ⊕ Operation	Access permission name⇔ Role to allow access⇔	Remarks⇔ Last update dat	e/time⇔ Last updated by⇔	
	History Update Discard	6 6 ope_sample1		External secret1 2021/05/31 19:29:	36 System Administrator	
	History Update Discard	11 11 ope_sample6		2021/05/31 19:27:	22 System Administrator	
	Filter result count: 2					

Figure 5.3-7 "Basic console" Menu group > "Operation list" MenuNo.5)Fuzzy search with keywords in string input

Example) Search results when user is logged in as Administrator and entered the keyword "Manager" as a string line in the "Access permission" field.

Exastr IT Automati	Basic Console						r name [System Admi Login ID [admi password Log	
Menu								
n menu	Description						QC	Open
ce list	Display filter						∆C	Close
eration list	Discard	No.		Access permission Role to allow access	Las	t update date/time	Last updated by	y
ement list	Exclude discarded records 🗸	~	Mana	ager		~		
iagram		▼ Search from pulld	down	۲.		l l	 Search from pulldo 	wn
Diagram Menu List	4	-						•
Diagram Menu List Diagram Item List	Filter	Clear filter						•
-	Filter	Clear filter						•
-		Clear filter						•
-		Clear filter					۵C	Close
-	Auto-hilter	Clear filter					∆C	
-	≧ Auto-hiter List/Update		Operation name@	Access permission	Renarks 🕀	Last update date/time⊕		,
-	List/Update List/Update	No. 🕈 Operation ID 🔶	Operation name@	Role to allow access⇔	Remarks 🔶	Last update date/time⊕	Last updated	Close ∕≑
	List/Update List/Update History Update Discard M	No.0 Operation ID0 6 6 6	ope_sample1	Role to allow access	External secret	2021/05/31 19:29:36	Last updated System Administ	Close
-	List/Update List/Update History Update Discard H History Update Discard History Update	No.⊕ Operation ID⊕ 6 6 7 7 7	ope_sample1 ope_sample2	Role to allow access⊕ Manager_Company_A Manager_Company_B	External secret	2021/05/31 19:29:36 :2021/05/31 19:04:10	Last updated System Administ Admin_Company_B	Close ∕≑
-	List/Update List/Update History Update Discard & History Update Decard History Update Decard History Update Decard	No.@ Operation ID@ 6 6 6 7 7 7 9 9 9	ope_sample1 ope_sample2 ope_sample4	Role to allow access Manager_Company_A Manager_Company_B Manager_Company_B	External secret External secret External secret	2021/05/31 19:29:36 2021/05/31 19:04:10 2021/05/31 19:05:28	Last updated System Administ Admin_Company_B Admin_Company_B	Close ∕≑
kagram Menu List Nagram Item List	List/Update List/Update History Update Discard H History Update Discard History Update	No. 🔶 Operation 10 🖗 6 6 6 6 7 7 7 9 9 9 12 12	ope_sample1 ope_sample2	Role to allow access⊕ Manager_Company_A Manager_Company_B	External secret External secret External secret External secret	2021/05/31 19:29:36 2021/05/31 19:04:10 2021/05/31 19:05:28 2021/05/31 19:05:17	Last updated System Administ Admin_Company_B	Close ∕≑



*Fuzzy search is not possible when comma is used.

No.6) Search by entering a real role name in the string input

Example) Search results when user is logged in as Administrator and entered the keyword "Company_A_KANTO" as a string line in the "Access permission" field.

Exastr IT Automat	Basic Console Change password	
Menu		∇Ope
in menu vice list		
eration list	Discard No. Last execution date Access permission Rema Last update date/time Last updated	1 by
ement list	Role to allow access Exclude discarded records V Search from puldown V Search from puldown V	illdowr
Viagram Viagram Menu List	Filter Clear filter	
iagram Item List	✓ Auto-filter	
	List/Update	∆Clo
	History Update Discard No. 🕀 Operation ID Operation name 🔶 Access permission Remarks 🕀 Last update date/time Last updated by 🕀	
	History Update Discard 2 2 Test Operation User03 Company_A_KANTO, Company_A_KANSAI 2021/05/31 14:05:40 Company_A_user03 History Update Discard 7 7 ope_sample2 Company_A_KANTO External secret2 2021/05/31 19:36:57 System Administrator	
	Filter result count: 2	

Figure 5.3-9 "Basic console" Menu group > "Operation list" Menu

No.7) Search for multiple role names separated by commas in string input

Example) Search results when user is logged in as Administrator and entered the keyword "Company_A_KANTO, Company_A_KANSAI" as a string line in the "Access permission" field.

	Basic Console				
∃ Menu					
Main menu	Description				
Device list	Display filter				
Operation list	Discard	No.	duled date for execution	Last execution date	Access permission Role to allow access
Movement list	Exclude discarded records 🗸	~	~	~	Company_A_KANTO, C
ER Diagram		▼ Search from pulldown			 Search from pulldown
ER Diagram Menu List	•				
EK Diagram Menu List	Filter	Clear filter			
ER Diagram Item List	Auto-filter				
	List/Update				
	History Update Discard No		on name⇔ Access permiss Role to allow ac tion User03 Company_A_KANTO, Compa	cess⇔ Remarks⇔ Last update date	
	Filter result count: 1				

Figure 5.3-10 "Basic console" Menu group > "Operation list" Menu

XIf multiple entries are entered and separated by commas, the search might not be able to finish depending on the order it was entered.

5.4 RestAPI display filter

This next section explains how to handle permission roles in RestAPI's Filter (X-Command).

There are three types of filters for each column of FILTER (X-Command).

Table 5.4-1 Filter type

Type of files	Details
NORMAL	Normal fuzzy search
RANGE	OR search for roles specified in START and END
LIST	Search by multiple exact match conditions

The filter pattern is further separated into the following conditions.

Table 5.4-2 Number of role names

	Number of role names						
Α	1pice						
В	Multiple						

Table 5.4-3 Search pattern

	Search pattern						
a fuzzy search for fuzzy role names							
b	fuzzy search for exactly matched role names						
С	Search for role names by exact match						

Using the combination above, this section explains how to handle the permission roles in each filter.

The configuration of the RESTAPI is shown in "Figure 5.4-1" below.

History	Update	Discard	No.⇔	Operation ID⇔	Operation name⇔	Access permission Role to allow access⇔	Remarks⇔	Last update date/time⇔	Last updated by⊖
History	Update	Discard	6	6	ope_sample1	Manager_Company_A,Company_A_KANTO, Company_A_KANSAI	External secret1	2021/06/01 10:48:18	System Administrator
History	Update	Discard	7	7	ope_sample2	Company_A_KANTO	External secret2	2021/05/31 19:36:57	System Administrator
History	Update	Discard	8	8	ope_sample3	Company_A_KANSAI	External secret3	2021/05/31 19:22:22	System Administrator
History	Update	Discard	9	9	ope_sample4	Manager_Company_A	External secret4	2021/06/01 10:47:58	System Administrator
			2			: "A Company"},"1":{NORI umn:{"Folder type": "Search string		}	

Figure 5.4-1 RestAPI configuration

This section assumes that the information in the red frame bellow is added to the registration information "Table 5-1".

	11- 4- 4-	Discost		0	Operation name⇔		Remarks⇔	Last update date/time⇔	Last updated by⇔
History	update	Discard	NO. 7	Operation ID	Operation name	Role to allow access⇔	Kemarks \		Last updated by⇒
History	Update	Discard	6	6	ope_sample1	Manager_Company_A,Company_A_KANTO, Company_A_KANSAI	External secret1	2021/06/01 10:48:18	System Administrator
History	Update	Discard	7	7	ope_sample2	Company_A_KANTO	External secret2	2021/05/31 19:36:57	System Administrator
History	Update	Discard	8	8	ope_sample3	Company_A_KANSAI	External secret3	2021/05/31 19:22:22	System Administrator
History	Update	Discard	9	9	ope_sample4	Manager_Company_A	External secret4	2021/06/01 10:47:58	System Administrator
History	Update	Discard	10	10	ope_sample5	System Administrator		2021/05/31 15:32:24	System Administrator
History	Update	Discard	11	11	ope_sample6			2021/05/31 19:27:22	System Administrator
History	Update	Discard	12	12	ope_sample7	System Administrator,Manager_Company_B	External secret5	2021/05/31 19:05:17	Admin_Company_B
History	Update	Discard	13	13	ope_sample8	System Administrator,Manager_Company_B,Company_B_KANTO	External secret6	2021/05/31 19:05:04	Admin_Company_B
History	Update	Discard	14	14	ope_sample9	Company_B_KANSAI	External secret7	2021/05/31 19:23:00	System Administrator
History	Update	Discard	15	15	ope_sample10	Company_B_KANTO,Company_B_KANSAI		2021/06/01 11:00:33	System Administrator

Figure 5.4-2 "Basic console" Menu group > "Operation list" Menu

NORMAL

- A) When there is 1 role name
 - a) Fuzzy search for Fuzzy role name

{"7":{"NORMAL":"Company_A"},"1":{"NORMAL":0}}

List/Upd	late									
History	Underter	Discord			Operation name⇔	Access permission	Remarks⇔	Last update date/time⇔	Last updated by⇔	
nistory	opuace	DISCALO	NO. 7	operation ib	operation name	Role to allow access⇔	Kemarks 🕁	Last update date/time⊽	lasi upualeo by⇒	
History	Update	Discard	6	6	ope_sample1	Manager_Company_A,Company_A_KANTO, Company_A_KANSAI	External secret1	2021/06/01 10:48:18	System Administrator	
History	Update	Discard	7	7	ope_sample2	Company_A_KANTO	External secret2	2021/05/31 19:36:57	System Administrator	
History	Update	Discard	8	8	ope_sample3	Company_A_KANSAI	External secret3	2021/05/31 19:22:22	System Administrator	
History	Update	Discard	9	9	ope_sample4	Manager_Company_A	External secret4	2021/06/01 10:47:58	System Administrator	

Figure 5.4–3 "Basic console" Menu group > "Operation list" Menu

b) Fuzzy search for exactly matched role names

{"7":{"NORMAL":"Company_A_KANTO "},"1":{"NORMAL":0}}"

		Discard		0ti TDA	Operation name≑	Access permission	Remarks⊖	Last update date/time⇔	Last updated by⊖
HISCORY	Update		NO. 4	operation ID		Role to allow access⇔	Kemarks 🕁		
History	Update	Discard	6	6	ope_sample1	Manager_Company_A,Company_A_KANTO, Company_A_KANSAI	External secret1	2021/06/01 10:48:18	System Administrator
History	Update	Discard	7	7	ope_sample2	Company_A_KANTO	External secret2	2021/05/31 19:36:57	System Administrator

Figure 5.4-4 "Basic console" Menu group > "Operation list" Menu

- B) When there is multiple role names
 - b) Fuzzy search for exactly matched role names (Applicable)

{"7":{"NORMAL":" Company_A_KANTO, Company_A_KANSAI "},"1":{"NORMAL":0}}

Histopy	History Update			Operation TDA	Operation name⊖		Remarks⊖	last undata data/tima≙	Last updated by⊖
HISCONY		DISCARU	NO. 4	operation 100		Role to allow access⇔	Kemarks →	Last update date/time⇔	
History	Update	Discard	6	6	ope_sample1	Manager_Company_A,Company_A_KANTO, Company_A_KANSAI	External secret1	2021/06/01 10:48:18	System Administrator

Figure 5.4-5 "Basic console" Menu group > "Operation list" Menu

b) Fuzzy search for exactly matched role names (Not applicable)

{"7":{"NORMAL":"Company_A, Company_A_KANSAI "},"1":{"NORMAL":0}}

List/Update

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

Figure 5.4-6 "Basic console" Menu group > "Operation list" Menu

• RANGE

- A) When there is role name
 - a) Fuzzy search for fuzzy role name

{7":{"RANGE":{"START":"Company_A","END":"Company_B"}},"1": {"NORMAL":0}}"

	story Update Discard No.⇔		0	a	Access permission	Remarks⇔	1			
History	υραατε	Discard	NO. 🗢	Operation ID	Operation name	Role to allow access⇔	Kemarks⇒	Last update date/time⇔	Last updated by⊖	
History	Update	Discard	6	6	ope_sample1	Manager_Company_A,Company_A_KANTO, Company_A_KANSAI	External secret1	2021/06/01 10:48:18	System Administrator	
History	Update	Discard	7	7	ope_sample2	Company_A_KANTO	External secret2	2021/05/31 19:36:57	System Administrator	
History	Update	Discard	8	8	ope_sample3	Company_A_KANSAI	External secret3	2021/05/31 19:22:22	System Administrator	
History	Update	Discard	9	9	ope_sample4	Manager_Company_A	External secret4	2021/06/01 10:47:58	System Administrator	
History	Update	Discard	10	10	ope_sample5	System Administrator		2021/05/31 15:32:24	System Administrator	
History	Update	Discard	11	11	ope_sample6			2021/05/31 19:27:22	System Administrator	
History	Update	Discard	12	12	ope_sample7	System Administrator,Manager_Company_B	External secret5	2021/05/31 19:05:17	Admin_Company_B	
History	Update	Discard	13	13	ope_sample8	System Administrator,Manager_Company_B,Company_B_KANTO	External secret6	2021/05/31 19:05:04	Admin_Company_B	
History	Update	Discard	14	14	ope_sample9	Company_B_KANSAI	External secret7	2021/05/31 19:23:00	System Administrator	
History	Update	Discard	15	15	ope_sample10	Company_B_KANTO,Company_B_KANSAI		2021/06/01 11:00:33	System Administrator	

Figure 5.4-7 "Basic console" Menu group > "Operation list" Menu

b) Fuzzy search for exactly matched role names

{7":{"RANGE":{"START":" Company_A_KANTO ","END":"Company_B_KANTO "}},"1":{"NORMAL":0}}"

		N /				Access permission	Deres la A		Last updated by⇔
History	υραατε	Discard No.⇔ Operation ID	Uperation ID⊖	Operation name	Role to allow access⇔	Remarks⇔	Last update date/time⇒		
History	Update	Discard	6	6	ope_sample1	Manager_Company_A,Company_A_KANTO, Company_A_KANSAI	External secret1	2021/06/01 10:48:18	System Administrator
History	Update	Discard	7	7	ope_sample2	Company_A_KANTO	External secret2	2021/05/31 19:36:57	System Administrator
History	Update	Discard	13	13	ope_sample8	System Administrator,Manager_Company_B,Company_B_KANTO	External secret6	2021/05/31 19:05:04	Admin_Company_B
History	Update	Discard	15	15	ope_sample10	Company_B_KANTO, Company_B_KANSAI		2021/06/01 11:00:33	System Administrator

Figure 5.4-8 "Basic console" Menu group > "Operation list" Menu

- B) When there is multiples role names
 - b) Fuzzy search for exactly matched role names (Applicable)

{7":{"RANGE":{"START":"Company_A_KANTO, Company_A_KANSAI,"END":"Company_B_KANTO,Company_B_KANSAI "}},"1":{"NORMAL":0}}"

History	Update	Discard	No.⇔	Operation ID会	Operation name⊖	Access permission	Remarks⇔	Last update date/time⇔	Last updated by⊖	
						Role to allow access \Leftrightarrow	· · · · · ·			
History	Update	Discard	6	6	ope_sample1	Company_A_KANTO, Company_A_KANSAI	External secret1	2021/06/01 11:19:46	System Administrator	
History	Update	Discard	7	7	ope_sample2	Company_A_KANTO	External secret2	2021/05/31 19:36:57	System Administrator	
History	Update	Discard	8	8	ope_sample3	Company_A_KANSAI	External secret3	2021/05/31 19:22:22	System Administrator	
History	Update	Discard	13	13	ope_sample8	Company_B_KANTO	External secret6	2021/06/01 11:20:20	System Administrator	
History	Update	Discard	14	14	ope_sample9	Company_B_KANSAI	External secret7	2021/05/31 19:23:00	System Administrator	
History	Update	Discard	15	15	ope_sample10	Company_B_KANTO,Company_B_KANSAI		2021/06/01 11:00:33	System Administrator	



b) Fuzzy search for exactly matched role names (Not applicable)

{7":{"RANGE":{"START":"Company_A, Company_A_KANSAI","END":"Company_B,Company_B_KANSAI"}},"1":{"NORMAL":0}}

List/Update

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

Figure 5.4-10 "Basic console" Menu group > "Operation list" Menu

● LIST

- A) When there is 1 role name
 - c) Search exact role names by exact match (Applicable)

{7":{"LIST":["Company_A_KANTO"],"1":{"NORMAL":0}}}"

Role to allow access	History	Vieter, Vedeta P		iscard No.⇔	Openation TDA		Access permission	Remarks⇔	Last update date/time⇔	Last updated by⇔
History Update Discard 7 7 ope_sample2 Company_A_KANTO External secret2 2021/05/31 19:36:57 System Administrato	HISCORY	istory update Discard	operation ID							
	History	Update	Discard	7	7	ope_sample2	Company_A_KANTO	External secret2	2021/05/31 19:36:57	System Administrator

Figure 5.4-11 "Basic console" Menu group > "Operation list" Menu

c) Search exact role names by exact match (Not applicable)

{7":{"LIST":["Company_A"],"1":{"NORMAL":0}}}"

List/Update

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

Figure 5.4-12 "Basic console" Menu group > "Operation list" Menu

- B) When there is multiple role names
 - c) Search exact role names by exact match

{7":{"LIST":["Company_A_KANTO, Company_A_KANSAI "],"1":{"NORMAL":0}}}"

	11- 4- 4-	Discard	No.⇔	Operation ID⇔	Operation name⊖	Access permission	Derreta	s⇔ Last update date/time⇔	Last updated by⇔
HISTORY	Update					Role to allow access \Leftrightarrow	Remarks⇔		
History	Update	Discard	7	7	ope_sample2	Company_A_KANTO	External secret2	2021/05/31 19:36:57	System Administrator
History	Update	Discard	8	8	ope_sample3	Company_A_KANSAI	External secret3	2021/05/31 19:22:22	System Administrator

Figure 5.4-13 "Basic console" Menu group > "Operation list" Menu