

ITA_User Instruction manual

Construction file management function

-Version 1.5 -

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Table of Contents

ln'	troduct	ion	3
1.	Ove	rview of construction file management function	4
		What is construction file management	
	1.2	System configuration	4
	1.3	The feature of construction file management function	4
2.	Con	struction file management Menu configuration	5
	2.1	Menu/Screen list	5
	2.2	Construction file management Status list	6
3.	Con	struction file management Operation procedure	7
	3.1	Workflow	7
	3.1.1	1 Initial configuration Git association	7
	3.1.2	2 Register management target file	8
	3.1.3	3 Check-in / Check-out files	9
	3.1.4	4 Cancellation workflow	11
4.	Con	struction file management Function • operation method	13
	4.1.	File control master	13
	4.1.1	1. Interface information	13
	4.1.2	2. Directory master	15
	4.1.3	3 File master	17
	4.1.4	4 File list	19
	4.1.5		
	4.1.7	7 File link list (OpenStack)	23
		File control check-in/check-out console	
	4.2.1	1. Browse	25
	4.2.2		
	4.2.3		
	4.2.4		
	4.2.5	5 Check-in	29
	4.2.6		
	4.2.7		
5.		erial Linkage function	
		What is Material Linkage function	
		Image of Material Linkage function	
		lication operation	
		Maintenance	
	6.2	Change log level	35

Introduction

This document explains the function and the operation method of ITA construction file management function (referred to as construction file management hereafter) system.

1. Overview of construction file management function

1.1 What is construction file management

Construction file management is for managing the check-in/check-out of files such as document and contents, and version controlling by using version control tool Git.

1.2 System configuration

Construction file management is divided into construction file management function part and Git. Git can run on the same server with ITA or on a separate server.

1.3 The feature of construction file management function

The main function of construction file management are classified into the following categories.

- Web
 Web content. The construction file management function screen provided on the browser.
- ② BackYard Resident processes that runs on a server independent from the Web content.

2. Construction file management Menu configuration

This chapter explains the menu configuration of construction file management function.

For the method to login the web console or the element / basic operation of menu screen, please refer to "User instruction manual - Basic console".

2.1 Menu/Screen list

The list of console menu used in construction file management is as below.

Table 2.1-1 Construction file management menu / screen list

No	Menu group	Menu-Screen	Overview
1	File control	Interface information	Initial synchronization with Git
2	management	Directory master	Register the file storage directory
3	console	File Master	Register management target file
4		File list	The data of all managed file
			Download all management file at once
5		File link list(Ansible)	Link file to Ansible driver menu
6		File link list(OpenStack)	Link file to Openstack driver menu
7	File control	Browse	Browse all check-in/check-out request data
8	check-in/check-out	Check-out request	Request for file check-out
9	console	Check out	Approve/Reject file check-out request
10		Check-in request	Request for file check-in
11		Check in	Approve/Reject file check-in request
12		Cancel	Request for cancellation

2.2 Construction file management Status list

The file status used in construction file management is listed below.

Table 2.2-1 File status list

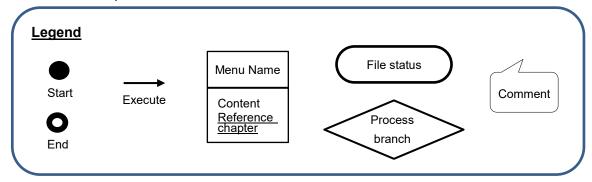
No	Status	Overview
1	Check out requested	The data registered for check out request.
		Update the status of data to approve/reject the check out request.
2	Check out requested	The data registered for check out request.
	(duplicate)	The request will become this status if the request target file has
		already been registered in status No3~5, 7~8.
		※The target file will be able to check out if it's status become
		"check in complete".
3	Checking out	The data whose check out request has been approved.
		Update the status of this data to request for check in.
4	Check in requested	The data registered for check in request.
		Update the status of the data to approve/reject the check in
		request.
5	Checking in	The data whose check in request has been approved.
		Update the status of this data to link with Git.
		XIn the case of auto check-in, update the "check-in requested" €
		data to link with Git.
6	Check in complete	The data whose file update has been completed.
		Please make new check out request to update the file again.
7	Return(check-out request)	The data whose check out request is rejected.
		Please check the request content and register for request again.
8	Return(check-in request)	The data whose check in request is rejected.
		Please check the request content and register for request again.
9	Cancel	The data which is cancelled during process.
		Please refer to 4.2.6 for status that has been cancelled.

3. Construction file management Operation procedure

Explain the operation procedure of construction file management function.

3.1 Workflow

The standard workflow of each console in construction file management is as below. The details of each operation is described in next section.



3.1.1 Initial configuration Git association

When using construction file management function, it's required to associate version control tool Git with ITA as initial configuration.

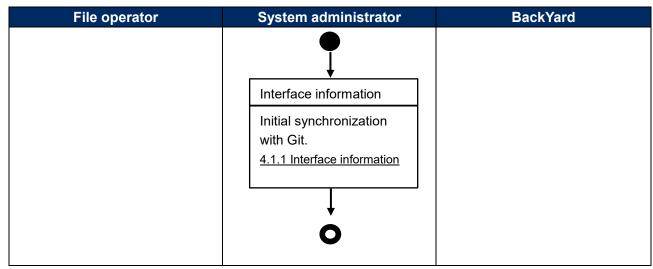


Figure 3.1-1 Workflow of Initial configuration Git association

3.1.2 Register management target file

In order to manage target file safely, the system administrator registers storage directory and management target file, and if necessary, configure the association with Ansible, etc.

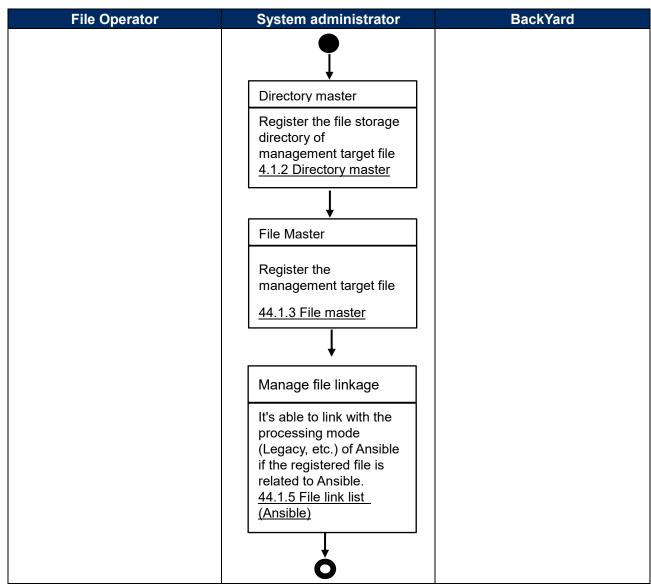
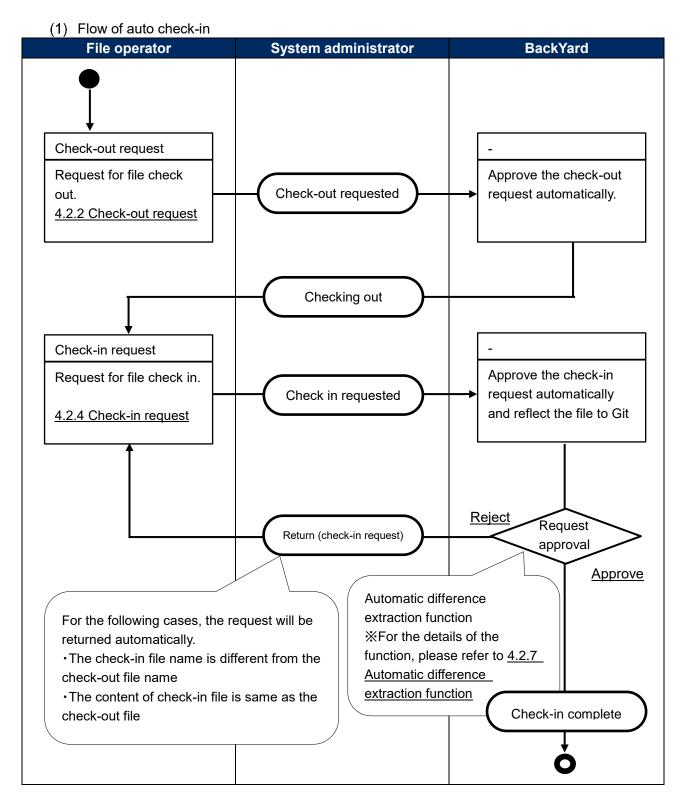


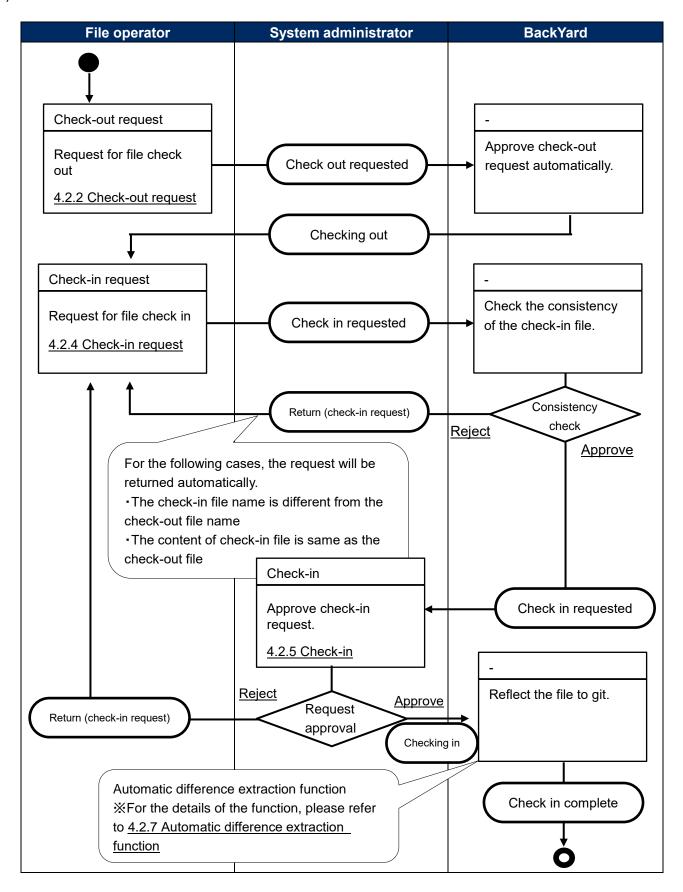
Figure 3.1-2 Workflow ②

3.1.3 Check-in / Check-out files

The user check-in/ check-out the files that are registered by the system administrator. For file check-in/check-out, there are "Auto check-in" that doesn't need administrator's approval procedure and "Manual check-in" that requires approval procedure. It's possible to set "Auto check-in" and "Manual check-out" for each file accordingly.

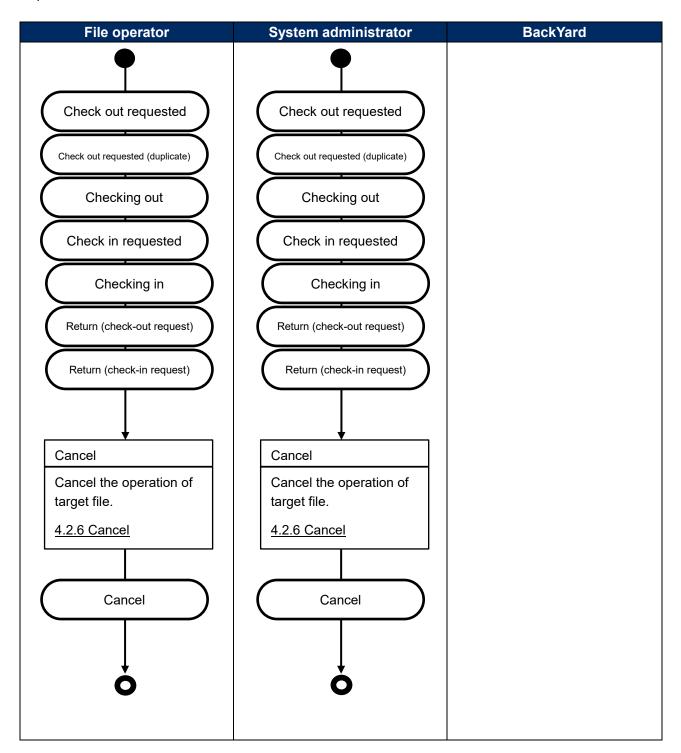


(2) The flow of manual check-in



3.1.4 Cancellation workflow

Before check-in is done, it's possible to cancel the operation if the process status is in "Requested", "Checking out", "Checking in", etc. The cancelled target file will return to the status before "Check-out request"



■ Legend of register screen item list

The content of the register screen item list are described in the next section.

1	2	3	4	⑤
Item	Description	Input Required	Input type	Restrictions

1 Item

•The name of item in the submenu

2 Description

•The description of the item

3 Input Required

- •O: Items that entering contents are required for them.
- •- : Items that entering contents are optional for them.

4 Input type

- •Manual: Items that require manual input.
- •Auto: Items whose content are entered automatically.
- ·Checkbox: Check box format item.
- ·Button: Radio button format item.
- ·List: List box format item.

⑤ Restriction

•The restrictions for the item(Limitation on number of characters, etc.)

4. Construction file management Function · operation method

This chapter explains each console function used in construction file management.

4.1. File control master

This section describes the operation in file control master console

4.1.1. Interface information

(1) Initial synchronization of construction file management function and Git is performed in "interface information" submenu.

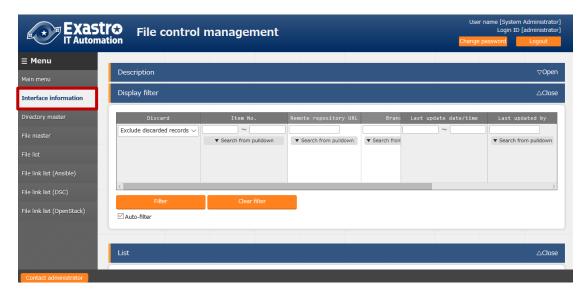


Figure 4.1-1 submenu screen (Interface information)

(2) The item list of "interface information" screen is as below.

Please register each information and perform initial synchronization with Git.

Please do not perform any other operations during the initial synchronization.

- X₁ Please update the already registered empty data while initial registration.
- ¾₂ Please set "remote repository URL" and "Clone repository" to the value of the argument which is passed to the clone command of Git as the following example command.

Table 4.1-1 Register screen item list (Interface information)

Item	Description	Input	Input	Restrictions
		Required	Туре	
Remote	Please enter the URL of an already created Git	0	Manual	
repository	remote repository.			
	※The following setting is required for the specified			
	repository.			
	•push.default=simple			
	·core.bare=true			
	·core.sharedrepository=1			
	(Example) ssh://root@192.168.1.1/dir1/dir2/main.git			
Clone repository	Please enter the path of local directory that the user	0	Manual	
	wants to create the clone repository.			
	If the entered directory does not exist, the directory			
	will be created.			
	※Since differential synchronization is not allowed,			
	the repository in use can't be specified. In the case			
	of specifying a exist directory, the directory is			
	required to be empty.			
Password	Please enter the password that is required when	0	Manual	
	prompted according to the protocol specified in the			
	"Remote repository URL".			
	If ssh password is needed on the remote repository			
	side, please enter the password.			
Initial	Press the button and start initial synchronization with	Optional	Manual	Required for the first
synchronization	Git.			time only
Remarks	Free description field	Optional	Manual	Maximum length
				4000bytes

4.1.2. Directory master

(1) Created the directory for construction file management in "Directory master".

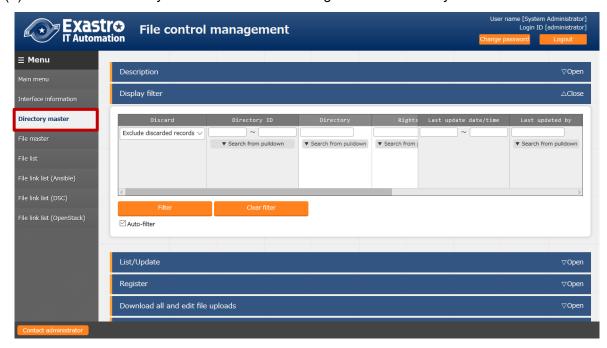


Figure 4.1-2 Submenu screen (directory master)

(2) Click the "Register" - "Start Registration" button to register the operation information.



Figure 4.1-3 Registration screen (directory master)

(3) The item list of "Directory master" screen is as below.

Table 4.1-2 Item list of Registration screen (directory master)

Item	Description	Input	Input	Restrictions
		Required	Туре	
Parent	Registered directory will be displayed.	0	List	
directory	To use the registered directory as parent			
	directory, please select the target directory.			
Directory	Please enter desired directory name.	0	Manual	
	%1 Characters as ^Γ !"#\$%&' `;:*<>?¥」,Γ.」,Γ」			
	can't be used in directory names			
	※2 "/" can't be used at the beginning or end.			
Rights	Please enter the permission of the creating	0	Manual	
	directory with three digits from 0 to 7			
Group	Enter the group of the creating directory in	0	Manual	
	half-width alphanumeric characters.			
	※ If the entered group does not exist in the			
	server, it will be managed as the "root" group.			
User	Enter the owner of the creating directory in	0	Manual	
	half-width alphanumeric characters.			
	※ If the entered owner does not exist in the			
	server, it will be managed as "root".			
Purpose	Please enter the column if there is description	Optional	Manual	
	of usage.			
Remarks	Free description field	Optional	Manual	Maximum length
				4000 bytes

- (4) The specifications of update/discard are as below.
 - ① In the case of update/discard, if there is any file under the directory in check-in/check-out request, the update/discard can't be performed (validation error).
 - ② If the initial synchronization with Git has already done, updating/discarding the data in directory master menu that is also on Git, the data on Git will also be updated/deleted. In the case of register/restore, no operation will be performed on Git.
 - ③ In the case of discard, the subdirectories in directory, the file in "File master", the file data in "Browse" and "File list" menu will all be discarded also.

4.1.3 File master

(1) Register the manage target file in "File master".

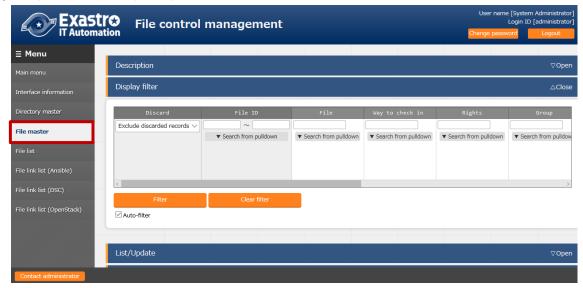


Figure 4.1-4 Submenu screen (File master)

(2) Click the "Register" - "Start Registration" button to register the operation information.



Figure 4.1-5 Registration screen (File master)

(3) The item list of the file master screen is as below.

Table 4.1-3 Register screen item list (File master)

Item	Description	Input	Input	Restrictions
itom	Description	required	type	11030100113
Directory	Diagon polant the directory to manage			
Directory	Please select the directory to manage.	0	List	
File	Please enter the file name to manage.	0	Manual	
	※1 Characters as 「!"#\$%&' `;:*<>?¥」、「.」、			
	「」can't be used in directory names.			
Way to check in	Please select according to the operation	0	List	
	needs.			
	·Check in after administrator approval			
	Process the check-in request manually.			
	·Auto-check in			
	Process the check-in request automatically.			
Rights	Please enter the permission of the managing	0	Manual	
	file with three digits from 0 to 7.			
Group	Enter the group of the managing file in half-	0	Manual	
	width alphanumeric characters.			
	※ If the entered group does not exist in the			
	server, the item will be managed as in the			
	"root" group.			
User	Enter the owner of the creating directory in	0	Manual	
	half-width alphanumeric characters.			
	※ If the entered owner does not exist in the			
	server, the item will be managed as by "root"			
	user.			
Purpose	Please enter the column if there is description	Optional	Manual	
	of usage.			
Remarks	Free comment section.	Optional	Manual	Maximum length
				4000 bytes

(4) The specification of update/discard is as below

- (1) In the case of update/discard, if there is any file in check-in/check-out request, the update/discard can't be performed (validation error).
- (2) If the initial synchronization with Git has done, updating/discarding the data on directory master that is also on Git, the data on Git will also be update/deleted. In the case of register/restore, no operation will be performed on Git.
- (3) In the case of discard, the file data in "Browse" and "File list" menu will all be discarded also.

4.1.4 File list

(1) The whole file managed in construction file management function is displayed in "file list". Also, the files displayed in filter results can all be downloaded at once.

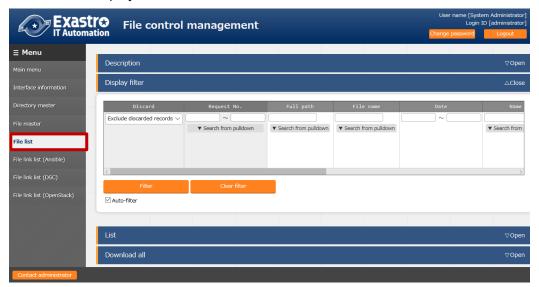


Figure 4.1-6 Registration screen (file list)

- ① On opening the menu, the "latest flag" will be checked automatically and all newest file will be displayed with filter
 - Please press the "Download all" button on the bottom of the screen to download all files.
 - The file is downloaded in zip format.
 - ¾₁ The "newest" flag is attached to the newest file among the files that have completed check-in
 - X₂ The name of the zip file is "material YYYYMMDDHHMMSS.zip"

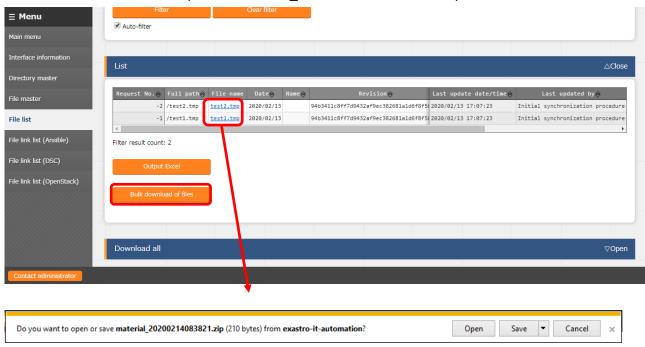


Figure 4.1-7 "Bulk download" screen ① (File list)

② Filter by any information and download only necessary files at once is possible.

Figure 4.1-8 "Bulk download" screen ② (File list)

Open

Save

Cancel

③ If the same material is displayed multiple times in the result of the filtered display, only the latest data of the file is downloaded.

Do you want to open or save material_20200214084046.zip (116 bytes) from exastro-it-automation?

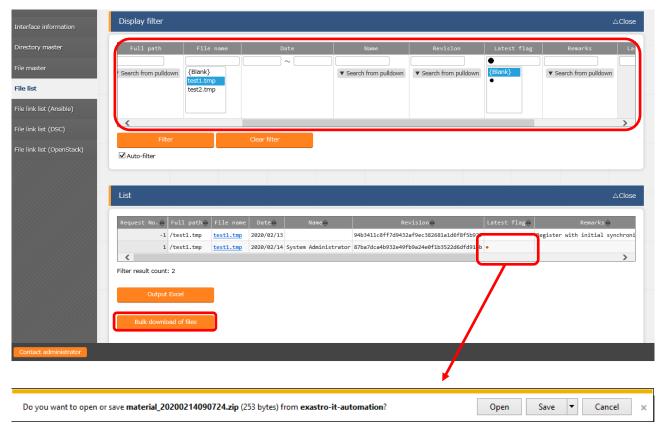


Figure 4.1-9 "Bulk download" screen ③ (File list)

4.1.5 File link list (Ansible)

(1) Register the link between the file registered in construction file management and the file used in Ansible-driver console in "File link list (Ansible)" menu.

The link destination menus are as below.

- Ansible Common contents list
- Ansible Common template list
- Ansible-Legacy Playbook files
- Ansible-Pioneer Dialog files
- · Ansible-LegacyRole Role package list

The registered file will automatically reflected each time when construction file management is updated.

To use this function, Ansible-driver is required to be installed in ITA.

For details of this function, please refer to chapter 5.

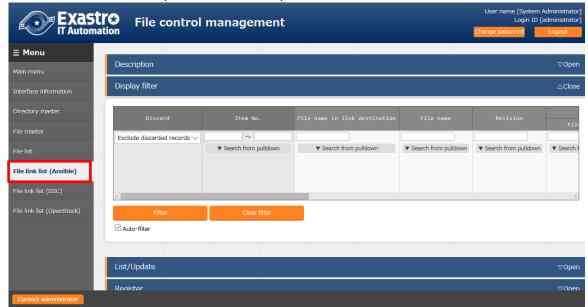


Figure 4.1-10 Submenu screen (File link list (Ansible))

(2) Click the "Register" - "Start Registration" button to register the operation information.



Figure 4.1-11 Registration screen (File link list (Ansible))

(3) The item list of "File link list (Ansible)" screen is as below.

Table 4.1-4 Register screen item list(File link list(Ansible))

I	tem	Description	Input	Input	Restriction
			Required	Туре	
File name i	n link	Enter the file name registered in the link	0	Manual	
destination		destination.			
		If the file name entered does not exist in			
		the link destination, it will be newly			
		registered.			
File name		Please select the target file to link with.	0	List	
Revision		Select the revision number you want to	Optional	List	
		specify. If no selection is made, the latest			
		revision is automatically specified.			
		※ If a revision is specified, automatic			
		update will not be performed.			
Ansible	Template list	Select "●" when linking to the "Template	Ж₁	List	※ 1
Common		list" menu.			Please select only
		※ Please Enter "TPF_" at the beginning			one link destination.
		and enter alphanumeric characters in the			₩2
		following in "File name in link destination"			Ansible-Pioneer
		column when selecting this option."			Required when
	File list	Select "●" when linking to the "File list"		List	linking to Ansible
		menu.			Pioneer "Dialog file
		※ Enter "CPF_" at the beginning and enter			materials" menu.
		alphanumeric characters in the following in			
		"File name in link destination" column when			
		selecting this option.			
Ansible-	Playbook	Select "●" when linking to the "Playbook	Ж1	List	
Legacy	files	file" menu.			
Ansible-	OS type	Please select the OS type of link	X 2	List	
Pionner		destination file when linking to the "Dialog			
		file materials" menu.			
	Dialog file	Select "●" when linking to the "Dialog file	※ 1	List	
	materials	materials" menu.			
Ansible-	Ansible-	Select "●" when linking to the "Role		List	
Legacy	Role Role	package file" menu.			
Role	package file				
		file, the registration data will be discarded			
		and an error message will be displayed in			
		the remarks column.			
Remarks		Free description field	Optional	Manual	Maximum length
					4000 bytes

4.1.6 File link list(OpenStack)

(1) Register the link between the file registered in construction file management and the file used in OpenStack-driver console in "File link list (OpenStack)" menu.

The link destination menu is as below

Movement list

The registered file will automatically reflected when construction file management is updated. To use this function, OpenStack-driver is required to be installed in ITA. For details of this function, please refer to chapter 5.

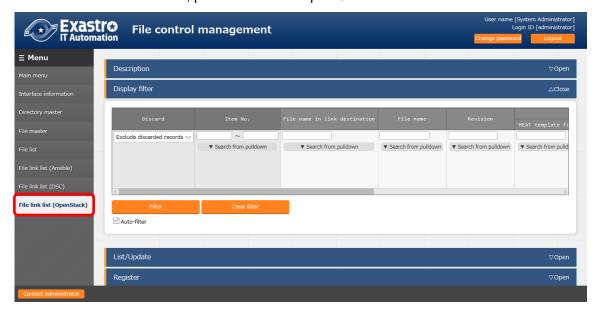


Figure 4.1-12 Submenu screen (File link list (OpenStack))

(2) Click the "Register" – "Start Registration" button to register the operation information.



Figure 4.1-13 Registration screen (File link list (OpenStack))

(3) The item list of "File link list (Openstack)" screen is as below.

Table 4.1-5 Register screen item list (File link list (OpenStack))

Į:	tem	Description	Input	Input	Restriction
			required	type	
File name in	link	Enter the file name registered in the link	0	Manual	
destination		destination.			
		If the file name entered does not exist in the			
		link destination, it will be newly registered.			
File name		Please select the target file to link with.	0	List	
Revision		Select the revision number you want to	Optional	List	
		specify. If no selection is made, the latest			
		revision is automatically specified.			
		updating will not be performed.			
OpenStack	HEAT	Select "●" when linking to the "HEAT	*	List	*
	template files	template files" menu.			Please select
	Environment	Select "●" when linking to the "Environment	*	List	only one link
	Configuration	Configuration file" menu.			destination.
	file				
Remarks		Free comment section	Optional	Manual	Maximum length
					4000 bytes

4.2 File control check-in/check-out console

This section describes the operations in file control check-in/check-out console

4.2.1. Browse

(1) The reference of the check-in/check-out data of the whole file processed in construction file management file is displayed in "browse". Since this menu is for reference display, data update can't be performed in this menu.

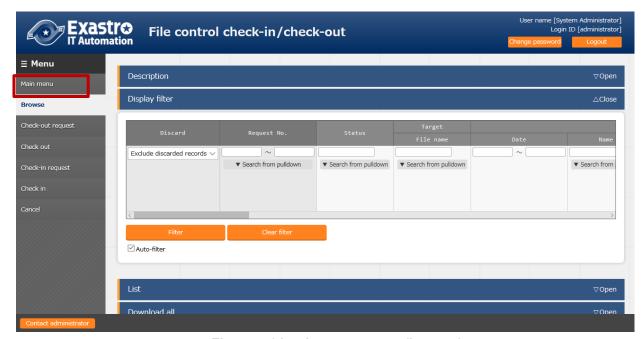


Figure 4.21 submenu screen (browse)

- (2) The management status is displayed in "list".
 - Information such as file status, the user who checked-out the file and the scheduled check-in date of revision or checked-out file are displayed.
 - Please refer to 2.2 "Construction file management status list" for details of status.

4.2.2. Check-out request

(1) The Check-out request is performed in "Check-out request" menu.

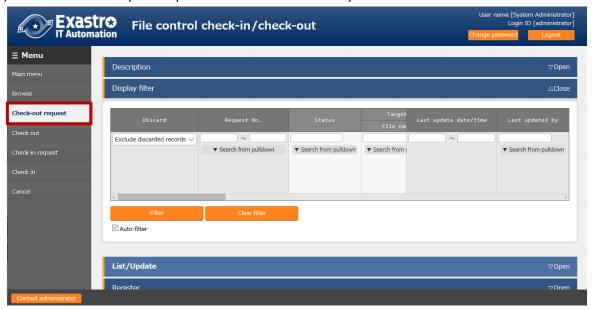


Figure 4.2-2 Submenu screen (Check-out request)

(2) Click the "Register" - "Start Registration" button to register the operation information.



Figure 4.2-3 Registration screen (Check-out request)

If the update content has been confirmed, please also enter the "change summary" and "Scheduled date for check-in".

* The register status will become "Check out requested (duplicate)" if the request target file is already checked-out. The target file will check-out automatically after it is checked-in.

(3) The item list of Check-out request screen is as below

Table 4.2-1 Register screen item list (Check-out request)

	Item	Description	Input	Input	Restriction
			required	type	
Status		Select the processing status of the file.	0	List	
		Please select "Check out requested" when			
		registering.			
Target	File name	Please select the check-out request target file	0	List	
Check-	Date	Automatically entered when the "Register"	_	Auto	
out		button is pressed.			
request	Name	Automatically entered when the "Register"	_	Auto	
		button is pressed.			
	Change	Please the summary of change	Optional	Manual	
	summary				
	Scheduled	Please enter the scheduled check-in date	Optional	Manual	
	date for				
	check-in				
Remarks		Free description field	Optional	Manual	Maximum length
					4000 bytes

4.2.3. Check-out

(1) The data in check-out request is displayed in "Check-out" menu.

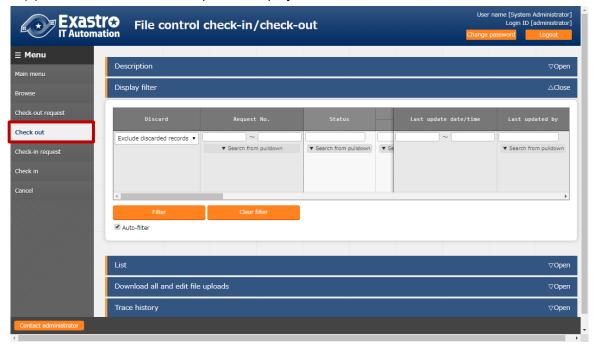


Figure 4.2-4 submenu screen (check-out)

The data registered in the check-out request is automatically checked-out, so no operation is required in this menu.

X It cost maximum 10 seconds for the status to become "Checking out".

4.2.4 Check-in request

- (1) The data in checking-out status will be displayed in "Check-in request" menu.
 - The file operator please update the displayed data and request for check-in.
 - ※If the DIFF file is not registered, the DIFF file will be generated automatically.
 - For the automatic generation of DIFF file, please refer to <u>4.2.7Automatic difference extraction</u> <u>function</u>.

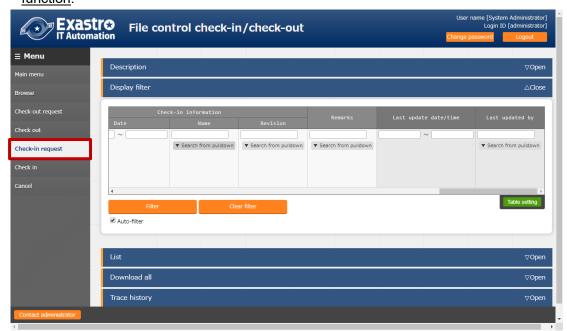


Figure 4.2-5 submenu screen (Check-in request)

(2) The item list of the Check-in request screen is as below

Table 4.2-2 Register screen item list (Check-in request)

Item		Description	Input	Input	Restriction
			required	type	
Status		Select the processing status of the file. Please	0	List	
		select "Check in requested" when registering.			
Target	File name	The file in "checking out" status will be	_	_	
		displayed.			
Check-in	Date	Automatically entered when the "Register"	_	Auto	
request		button is pressed.			
	Name	Automatically entered when the "Register"	_	Auto	
		button is pressed.			
	File	Please upload the file to be checked-in.	0	Manual	
	DIFF(txt)	Please upload if there is a DIFF file for the	Optional	Manual	
		target file.			
	Test item	Please upload if there is a test item file for the	Optional	Manual	
	list (xlsx)	target file.			
	Evidence	Please upload if there are other evidence files.	Optional	Manual	
	(zip)				
Remarks		Free description field.	Optional	Manual	Maximum size
					4000 bytes

4.2.5 Check-in

(1) The data in checking-in request will be displayed in "Check-in" menu Administrator please update the displayed data and approve / reject check-in of the request target file.

*If "automatic check-in" is selected in the file master menu, operation are not required in this menu.

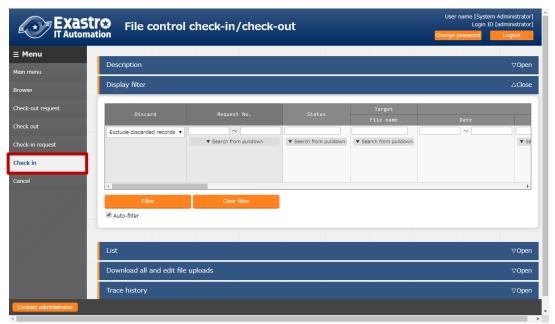


Figure 4.2-6 submenu screen (check-in)

(2) The item list of check-in screen is as below.

Table 4.2-3 screen item list (check-in)

lte	em	Description	Input	Input	Restriction
Status		Select the process status of file.	required o	type List	
Otatus		Select "Checking in" for approving the		List	
		request. Select "Return (check-in request)" for			
		rejecting the request.			
Target	File	The file in "check-in request" status will be	_	_	
		displayed			
Check-in	Date	Automatically entered when the "Register"	_	Auto	
information		button is pressed.			
	Name	Automatically entered when the "Register"	_	Auto	
		button is pressed.			
	Revision	Please enter the revision number in the case	0	Manual	
		of manual version control.			
		overwritten and updated automatically when			
		linked with Git			
Remarks		Free description field	Optional	Manual	Maximum length
					4000 bytes

4.2.6 Cancel

- (1) The file data in the following status will be displayed in the "cancel" menu. In the case of canceling registered data, please update the target data and register for cancellation.
 - XThe following 7 status can be cancelled
 - · Check out requested
 - · Check out requested (duplicate)
 - · Checking out
 - Check in requested
 - · Checking in
 - · Return (check-out request)
 - · Return (check-in request)

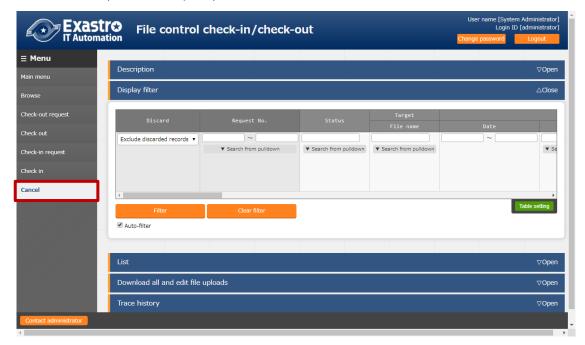


Figure 4.2-7 submenu screen (cancel)

(2) The item list of cancel screen is as below.

Table 4.2-4 screen item list (cancel)

Item		Description	Input	Input	Restriction
			required	type	
Status		Select the processing status of file. Please	0	List	
		select "cancel" when requesting.			
Target	File name	The target file is displayed.	_	Auto	
Remarks		Free description field.	Optional	Manual	Maximum length
					4000 bytes

4.2.7 Automatic difference extraction function

The following is the description of the DIFF file that is automatically generated during the check-in request.

- DIFF file automatic generation
 - In the following cases, the DIFF file will be generated automatically
 - •DIFF file was not uploaded during the check-in request
 - •The target file type is "text" type.
 - XIt takes maximum 10 seconds for the DIFF file to be generated automatically.
 - If the character encoding of the file is other than UTF-8, the DIFF file may not be able to generate automatically.
- How to read DIFF file (example)

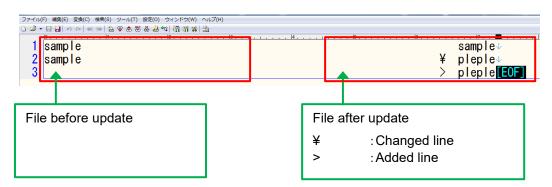


Figure 4.2-8 DIFF file sample

5. Material Linkage function

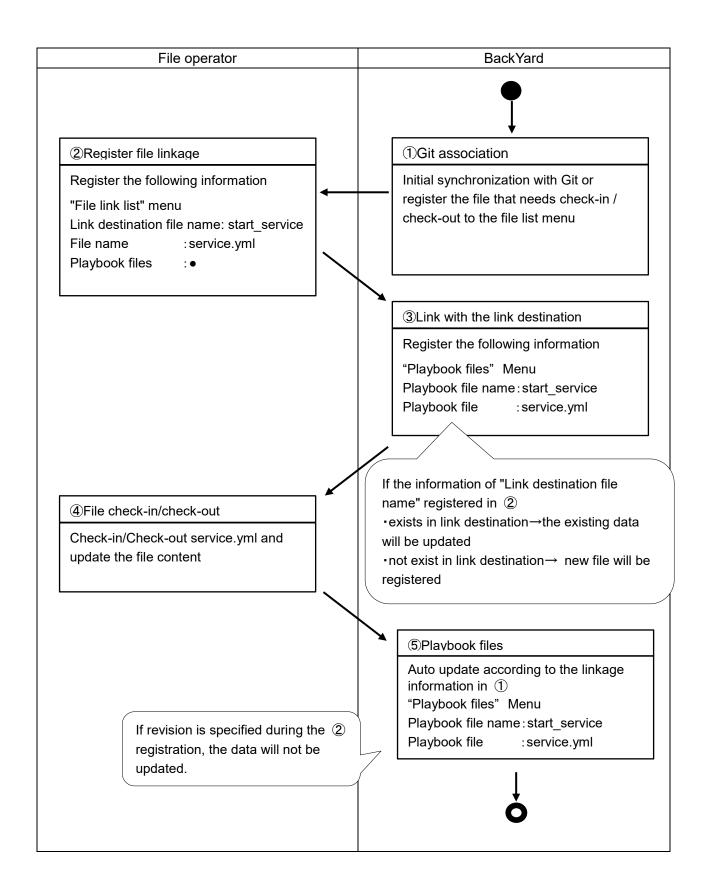
The following is the description of the Material Linkage function.

5.1 What is Material Linkage function

Material linkage function is a function that automatically links the file managed in construction file management function with file upload items in various menus of ITA.

5.2 Image of Material Linkage function

The following figure takes registering link to the Ansible driver - playbook list console as an example.



6. Application operation

The operation to utilizing this function is not only inputs by user usage from the browser screen of client PC but also operations according to system operation and maintenance. The available operation and maintenance are as follows.

- Maintenance
- Change log level

6.1 Maintenance

The required files for construction file management function process to start/stop/restart are as below

Description	Target file name
Automatic check-in / check-out function.	ky_material_management.service
Check-in / check-out file and associate with Git according to the data registered	
in file management function.	
Material linkage function (Ansible)	ky_material_linkage_ansible.service
Automatically associate the file managed in file management menu with	
Ansible-driver menu	
Material linkage function (DSC)	ky_material_linkage_dsc.service
Automatically associate the file managed in file management menu with DSC-	
driver menu.	
Material linkage function (OpenStack)	ky_material_linkage_openstack.service
Automatically associate the file managed in file management menu with	
OpenStack-driver menu	

The target file is stored in "/usr/lib/systemd/system"

The method to start/stop/restart the process are as follows.

Please execute the commands with root privilege.

Start process

systemctl start ky_material_management.service ←

② Stop process

systemctl stop ky material management.service ←

3 Restart process

systemctl restart ky_material_management.service ←

Please substitute the target file name to start / stop / restart the process.

6.2 Change log level

① Change to NORMAL level

Rewrite the 8th line of the following file from "DEBUG" to "NORMAL". Log level setting file: <insallation directory>/ita-root/confs/backyardconfs/ita_env

- ② Change to DEBUG level
- 3 Rewrite the 8th line of the following file from "NORMAL" to "DEBUG".
 Log level setting file: <installation direcotory>/ita-root/confs/backyardconfs/ita_env

After rewriting the file, the change takes effect after restarting the process.

Please refer to "6.1 Maintenance" for restart.

Log file output destination: <installation directory>/ita-root/logs/backyardlogs