

Release Control System

User Manual

FOXCONN

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1. Background

Recently quality issue we encountered ruin entire Software team reputation, this is due to the lack of RD formal review process/system of the firmware & software release, which continuously creating the same quality issues.

2. Purpose

2-1. Multiple Teams Management

- a. Allow managers to manage multiple teams.
- b. Manage different sites.

2-2. Consistent Process

Provides a repeatable and reliable release management process.

2-3. Increase Efficiency and Lower Cost

- a. Reduce time preparing for the manual/paper work approval.
- b. Avoid reproducing the same quality issues

2-4. Separation of Duties

Reviewers must fulfill their own duties to review the code

3. Scope

The system can be used by the teams which need an internal code review approval process on the firmware or software. As a result, in addition to SW team, other RD teams including Diag, Bios and CPLD are also suitable for the system.

4. Responsibilities

Automation team plays an important role of providing the innovative services of RD; in order to increase the efficiency and lower the cost, automation team has the accountability on the system development and deployment

5. Roles & Privileges Definition

5-1. 用戶名稱定義：

系統中共有五種角色(role)，權限定義各有不同，在用戶註冊之後，系統管理員必須定義用戶的角色，見下表定義如下：

角色	定義
admin	系統管理員
superuser	部級主管（最後審核者）
reviewer2	部級主管代理人/授權人(第二審核者)
reviewer1	課級主管或指定之資深開發人員(第一審核者)
user	開發人員(申請 code review)

5-2. 用戶權限定義：

分為專案管理和檔案管理兩種，權限表如下：

a.專案管理：

角色	申請 review	第一審核	第二審核	最終審核	刪除專案
admin	√				√
superuser	√			√	√
reviewer2	√		√		√
reviewer1	√	√			
user	√				

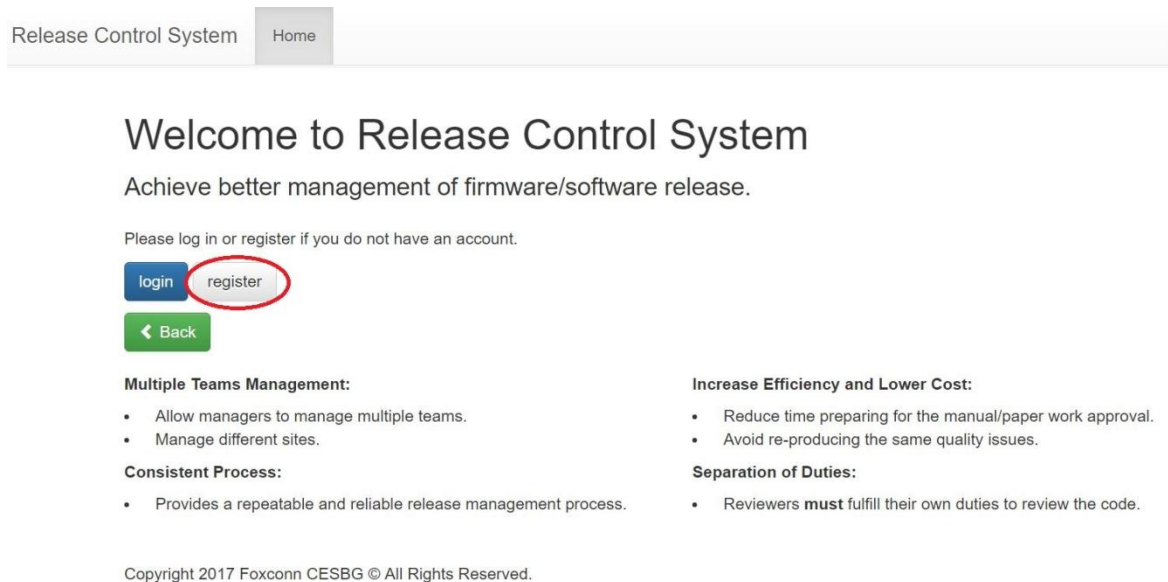
b.檔案管理：

角色	資料夾建立	重新命名	檔案上傳	檔案/資料夾刪除
admin	√	√	√	√
superuser	√	√	√	
reviewer2	√	√	√	
reviewer1			√	
user			√	

6. Security

6-1. Registration

進入首頁後，點擊 Register(紅色圈處)進行註冊。



Release Control System Home

Welcome to Release Control System

Achieve better management of firmware/software release.

Please log in or register if you do not have an account.

[login](#) [register](#)

[← Back](#)

Multiple Teams Management:

- Allow managers to manage multiple teams.
- Manage different sites.

Consistent Process:

- Provides a repeatable and reliable release management process.

Increase Efficiency and Lower Cost:

- Reduce time preparing for the manual/paper work approval.
- Avoid re-producing the same quality issues.

Separation of Duties:

- Reviewers **must** fulfill their own duties to review the code.

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接著輸入郵箱及密碼後點擊 Register，同 team 的成員使用一個共同帳號即可，以節省管理員配置用戶權限的時間。

Register



Email Address

.....@gmail.com

Password

.....

Retype Password

.....

[Register](#)

Already signed up? Please [log in](#).

若成功即可看到右上方出現該用戶註冊之郵箱(藍色框框處)，此時因管理員尚未配置用戶權限，選單上僅會顯示 Home，待管理員配置權限後，才會出現 project

及 file 選單(紅色框框處)。

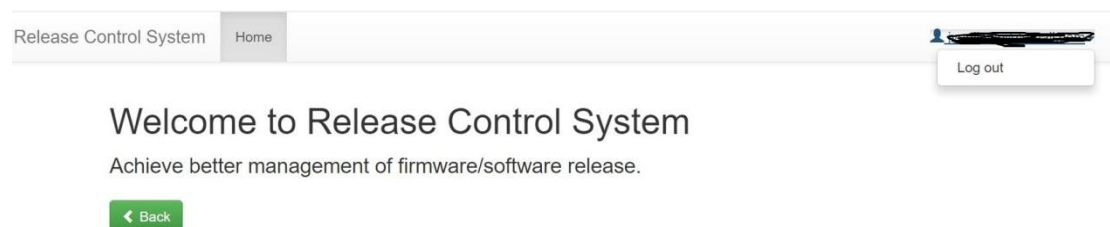


6-2. Login/Logout

輸入註冊之郵箱及密碼點擊 Login 進行登入。

Login

點擊右上方的郵箱後點擊彈出的 Logout 即可登出



7. User Management

7-1. 用戶權限配置

管理員登入後，點擊上方選單的 role(紅色框框處)後，點擊前方的筆(藍色框框處)進行用戶權限配置：

Release Control System				Home	Role	User	Project	File	admin
List (5)				Create With selected					
		Name		Description					
		user		其他開發人員(申請code review)					
		superuser		部級主管 (最後審核者)					
		administrator		系統管理員					
		reviewer1		課級主管或指定資深開發人員(第一審核者)					
		reviewer2		部級主管代理人/授權人(第二審核者)					

接著管理員可以針對已經註冊的成員，視情況賦予不同的角色，下圖的例子為設置具有 reviewer1 權限的人員，在 user 選單中選取欲賦予 reviewer1 權限的人員即可。

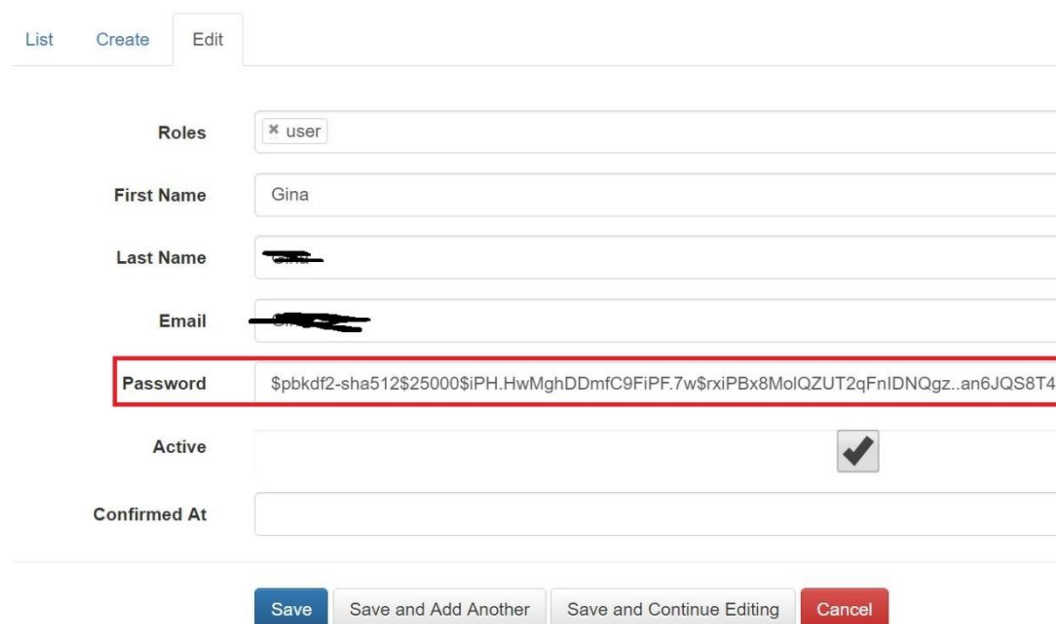
Name	reviewer1
Description	課級主管或指定資深開發人員(第一審核者)
Users	<div> <div>Wesker</div> <div>Jason</div> </div> <div> <div>Samoth</div> <div>Eric@qq.com</div> <div>Steve</div> <div>admin</div> <div>Gina</div> <div>henry@mail.foxconn.com</div> </div>

7-2. 用戶密碼修改

管理員登入後，點擊上方選單的 user(紅色框框處)後，點擊該用戶前方的色框框處)即可進行用戶密碼修改。

Release Control System				Home	Role	User	Project	File	admin
List (9)				Create With selected					
		First Name	Last Name	Email	Password				
		Samoth	Wei		\$pbkdf2-sha512\$25000\$F6IUlsR47/0fo1TqPYewtg\$UXr6p7td7XOYJ5UljTB93ZJhXFY8aq.53rWskd.uY8HMG0Z3cOmhlExfjkN				
		Eric	Lin		\$pbkdf2-sha512\$25000\$gvCeEyKE0FoLiUSo9R7DOA\$.Vv113jWIT5eOlvrUHbWQQuxtjF8IIIUFuhG27HoMo7KTb6cB6RbyClij0C				
		Steve	Zhang		\$pbkdf2-sha512\$25000\$orTIHOpcO2csRQgBwFirVQ\$prX8jJe2BnYKkbOywDDRUIJqKfGUq.gTVs8ajJ9vTQh4JR3/KFINRCP3V				
		admin	admin		\$pbkdf2-sha512\$25000\$mPee6.11vp/733v3VtLyQ\$8JI8TVIvblH8KxWcc/l9LHOloc3PLBOXRHuPlpExEdp4J85ESFdRNUG4FuL				

在 edit 頁面可針對用戶資料進行修改，注意密碼修改後會以加密(紅色框框處)的形式保存；建議各單位的管理員登入系統後就立刻修改密碼並妥善保存。

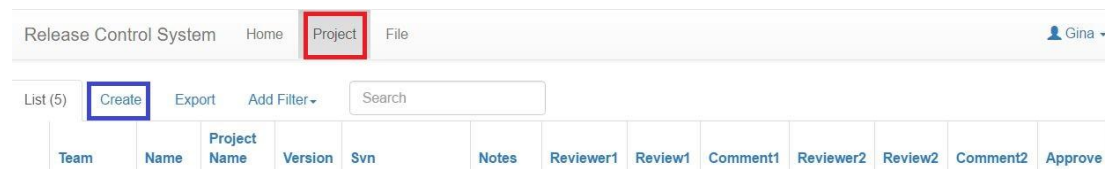


The image shows a user profile editing form. At the top, there are three tabs: 'List', 'Create', and 'Edit', with 'Edit' being the active tab. The form contains several input fields: 'Roles' with a dropdown showing 'user', 'First Name' with 'Gina', 'Last Name' with a redacted name, and 'Email' with a redacted email address. The 'Password' field is highlighted with a red border and contains a long alphanumeric string. Below the password field is an 'Active' checkbox which is checked. At the bottom, there are four buttons: 'Save', 'Save and Add Another', 'Save and Continue Editing', and 'Cancel'.

8. Project Management

8-1. 申請專案 review:

用戶登入後，點擊上方選單的 project(紅色框框處)，點擊 create(藍色框框處)創建新的專案：



The image shows the 'Project Management' interface. At the top, there is a navigation bar with 'Release Control System', 'Home', 'Project' (highlighted with a red box), and 'File'. On the right of the navigation bar is a user profile icon for 'Gina'. Below the navigation bar, there is a toolbar with 'List (5)', 'Create' (highlighted with a blue box), 'Export', and 'Add Filter'. A search bar is also present. Below the toolbar is a table with the following columns: 'Team', 'Name', 'Project Name', 'Version', 'Svn', 'Notes', 'Reviewer1', 'Review1', 'Comment1', 'Reviewer2', 'Review2', 'Comment2', and 'Approve'.

接著在 create 介面依序填入個人訊息，專案訊息以及兩名審核人員，完成後點擊保存：

List
Create

Personal Info

Team: BMC
Name: Gina

Project Info

Project Name: Hawkeye
Version: V1.1
Svn: www.facebook.com
Notes: The first release

Reviewers

Reviewer1: Wesker
Reviewer2: Steve

Save
Save and Add Another
Save and Continue Editing
Cancel

保存成功後會出現提示訊息，接著會出現在專案的 list 中，等待審核；因為此時還未被 review 過，因此 review1 及 review2 欄位為空(見紅色框框處)。

Release Control System Home Project File Gina

Record was successfully created.

List (2) Create Export Add Filter Search

	Team	Name	Project Name	Version	Svn	Notes	Reviewer1	Review1	Comment1	Reviewer2	Review2	Comment2
	BMC	Gina	Lego2	v1.02	www.facebook.com	1. already add feature	Wesker	⊙	check ok	Steve	⊙	1. Please revise ooooooooo 2. Check the code ok.
	BMC	Gina	Hawkeye	V1.21	www	http://172.22.25.248:8080/scm/svn	Wesker			Steve		

8-2. 專案審核：

接著以具有審核權限的用戶(即 reviewer1， reviewer2 及 superuser)登入，此處以 reviewer1 為範例。首先點擊上方選單的 project(紅色框框處)，接著點擊筆(藍色框框處)進行 review:

Release Control System

Home

Project

File

Wesker

List (2)

Create

Export

Add Filter

Search

	Team	Name	Project Name	Version	Svn	Notes	Reviewer1	Review1	Comment1	Reviewer2	Review2	Comment2
	BMC	Gina	Lego2	v1.02	www.facebook.com	1. already add feature	Wesker		check ok	Steve		1. Please revise oooooooooooo 2. Check the code ok.
	BMC	Gina	Hawkeye	V1.21	www	http://172.22.25.248:8080/scm/svn	Wesker			Steve		

Reviewer1 可在 comment1(藍色框框處)輸入評論，並在最後決定是予以審核通過(綠色框框處)：

Reviewers

Reviewer1	Wesker
Comment1	Review code on SVN and ok
Reviewer2	Steve
Comment2	
Review1	<input type="checkbox"/>

Save Save and Add Another Save and Continue Editing Cancel

接著可以在 project 的 list 看到審核的評語以及結果(藍色框框處)，接著由 reviewer2 及 superuser 進行 review，由於邏輯相同，此處不再贅述。

Release Control System

Home

Project

File

Wesker

Record was successfully saved.






List (2)

Create

Export

Add Filter

Search

	Team	Name	Project Name	Version	Svn	Notes	Reviewer1	Review1	Comment1	Reviewer2	Review2	Comment2
	BMC	Gina	Lego2	v1.02	www.facebook.com	1. already add feature	Wesker		check ok	Steve		1. Please revise oooooooooooo 2. Check the code ok.
	BMC	Gina	Hawkeye	V1.21	www	http://172.22.25.248:8080/scm/svn	Wesker		Review code on SVN and ok	Steve		

8-3. 專案清單導出

點擊上方選單的 project(紅色框框處)，接著再點擊 export(藍色框框處)即可導出專案清單的 excel 檔。

Release Control System

Home

Project

File

Gina






List (2)

Create

Export

Add Filter

Search

	Team	Name	Project Name	Version	Svn	Notes	Reviewer1	Review1	Comment1	Reviewer2	Review2	Comment2
	BMC	Gina	Lego2	v1.02	www.facebook.com	1. already add feature	Wesker		check ok	Steve		1. Please revise oooooooooooo 2. Check the code ok.
	BMC	Gina	Hawkeye	V1.21	www	http://172.22.25.248:8080/scm/svn	Wesker		Review code on SVN and ok	Steve		

8-4. 專案搜尋與篩選

有兩種搜尋方法，第一種是直接在此 search(紅色框框處)欄輸入想搜尋的字串，接著點擊鍵盤上的 enter，系統會依據此篩選出結果：

List (2)



Create

Export

Add Filter

	Team	Name	Project Name	Version	Svn	Notes	Reviewer1	Review1	Comment1	Reviewer2	Review2	Comment2
	BMC	Gina	Lego2	v1.02	www.facebook.com	1. already add feature	Wesker	⊙	check ok	Steve	⊙	1. Please revise oooooooooooo 2. Check the code ok.
	BMC	Gina	Hawkeye	V1.21	www	http://172.22.25.248:8080/scm/svn	Wesker	⊙	Review code on SVN and ok	Steve		

此處以搜尋 Hawkeye 作為範例，若要清除篩選結果，點擊 search 右側的 x 即可：

List (1)	Create	Export	Add Filter	Hawkeye	X								
	Team	Name	Project Name	Version	Svn	Notes	Reviewer1	Review1	Comment1	Reviewer2	Review2	Comment2	Approve
	BMC	Gina	Hawkeye	V1.21	www	http://172.22.25.248:8080/scm/svn	Wesker		Review code on SVN and ok	Steve			

第二種方法是根據 approve 與否篩選出清單，點選 Add filter-> Approve status:

Release Control System

Home

Role

User

Project

File

List (3)

Create

Export

Add Filter

With selected

Search

Version	Svn	Reviewer1	Review1	Comment1	Reviewer2	Review2	Comment2	Approve	
v1.02	www.facebook.com	1. already add feature	Wesker	☑	check ok	Steve	☑	1. Please revise ooooooooxxxx 2. Check the code ok.	☑
V1.21	www	http://172.22.25.248:8080/scm/svn	Wesker	☑	Review code on SVN and ok	Steve	☑		☑
V1.21	www.facebook	2nd release	James	☑		Steve	☑		☑

接著再點選 Approved 或 Not approved-> Apply，即可篩選出結果：

Release Control System

Home

Role

User

Project

File

admin

List (3)

Create

Export

Add Filter

With selected

Search

Approve Status

Status

Approved

Apply

	Team	Name	Project Name	Notes	Reviewer1	Review1	Comment1	Reviewer2	Review2	
<input type="checkbox"/>	BMC	Gina	Lego2	V1.02 www.facebook.com	1. already add feature	Wesker	<input checked="" type="radio"/>	check ok	Steve	<input checked="" type="radio"/>

此處以篩選出 Approved 的專案(藍色框框處)為例，若要清除篩選結果，點擊右上角的 Reset Filters 即可(紅色框框處)：

List (2)

Create

Export

Add Filter

With selected

Search

x Approve Status

Status

Approved

Reset Filters

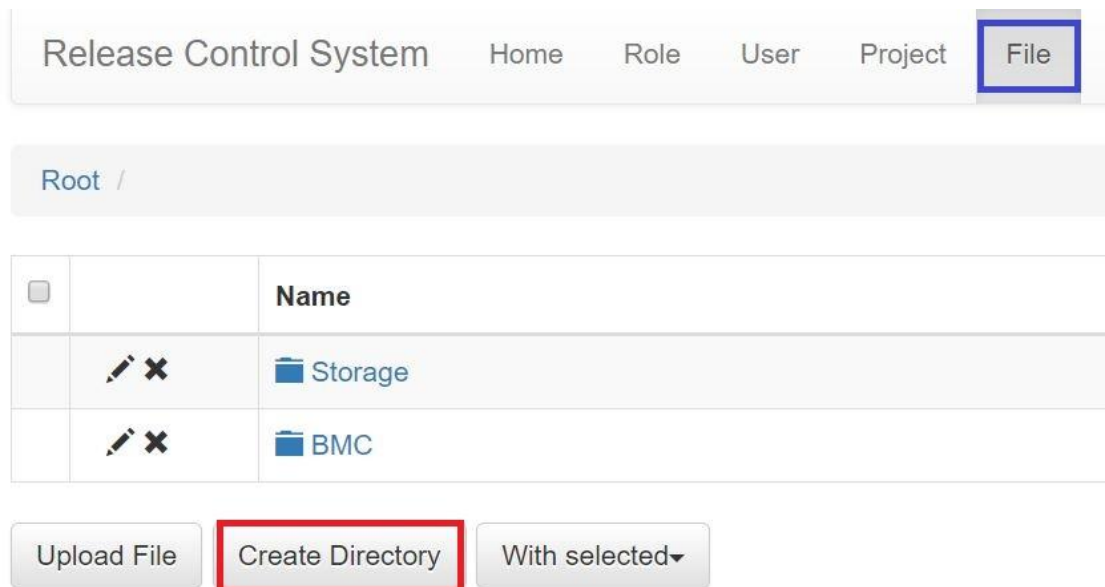
Project Name	Version	Svn	Notes	Reviewer1	Review1	Comment1	Reviewer2	Review2	Comment2	Approve	Comment3
lego2	v1.02	www.facebook.com	1. already add feature	Wesker	☑	check ok	Steve	☑	1. Please revise oooooooooxx 2. Check the code ok.	☑	Final check ok.
hawkeye	V1.21	www	http://172.22.25.248:8080/scm/svn	Wesker	☑	Review code on SVN and ok	Steve	☑		☑	

9. File Management

9-1. 資料夾建立：

簽核完成之後，需將 release 的檔案上傳，路徑統一規範為：

team/project/release_package。首先點擊選單上的 File (藍色框框處)，接著再點選下方的 Create Directory(紅色框框處)。



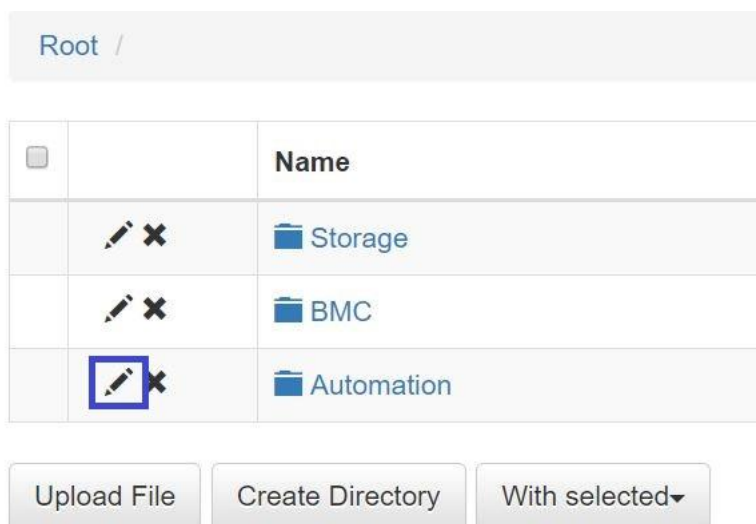
接著在 Name 欄位輸入名稱(team name 或 project name)再點擊保存即可。

(註:此功能不開放給一般 user)

The screenshot shows the 'Create Directory' form. The top navigation bar is the same as the previous image, with 'File' highlighted. The form title is 'Create Directory'. It features a 'Name *' label and a text input field containing 'Automation'. At the bottom, there are two buttons: 'Save' (blue) and 'Cancel' (red).

9-2. 檔案/資料夾重新命名:

若欲修改檔案或資料夾的名稱，只要點選該檔案或資料夾前方的筆(藍色框框處)，即可進入修改名稱。(註:此功能不開放給一般 user)



Rename Automation

Name *

9-3. 檔案上傳

Software team 的 release 一般是 BIN 檔案，須先壓縮成 tar/tgz/zip/rar/7z 再上傳，若其他單位(ex: EPM)使用時欲上傳 test plan, test report，本系統也支援 word, excel, powerpoint 等格式的檔案。

首先先切換到欲上傳的路徑(此處為 automation/release_control_system)，再點擊下方的 Upload File(綠色框框處)，

Root / Automation / release_control_system

<input type="checkbox"/>	Name
	..

Upload File

Create Directory

With selected▼

接著選擇欲上傳的檔案即可。(註:此功能開放給所有 user)

Upload File

File to upload







選擇檔案 release_control_system.rar

Save

9-4. 檔案/資料夾刪除

若欲刪除資料夾，點選該資料夾前方的 x(藍色框框處)即可刪除；若欲刪除檔案，則點選該資料夾前方的垃圾桶(綠色框框處)即可刪除。

(註:此功能僅開放給系統管理員)

<input type="checkbox"/>		Name
	 	Storage
	 	BMC
	 	Automation

Upload File

Create Directory

With selected▼

<input type="checkbox"/>		Name
<input type="checkbox"/>	 	release_control_system.rar
		 ..

Upload File

Create Directory

With selected▼