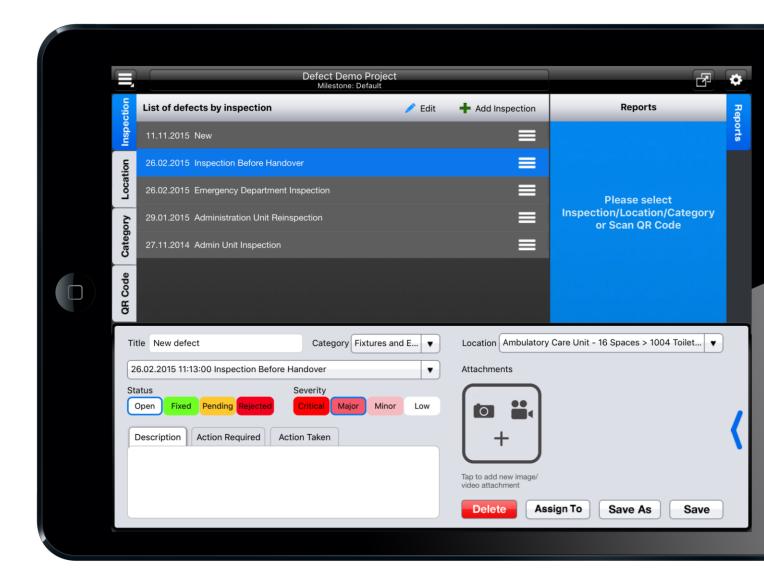


# **Defects Module**



More information: hfbsinfo.com

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## **Overview**

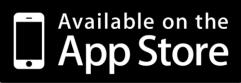
The Health Facility Briefing System (HFBS) Defects Management Module is mobile solution for on-site inspection management. The HFBS Defects Module enables you to take pictures, record videos, and enter other relevant details of the defect using mobile technology. You can also manage and track progress of all defects on-site, manage contactors and assign defects.

There are series of defect report templates available to be generated and sent from mobile device immediately after inspection completed. The defects module can also be used to perform site inspections as well as

defect inspections, it has reports and interfaces for both these functions. The defects module is designed to work with & without an internet connection.

The HFBS Defects Management module is available for purchase on the <u>Apple App store</u>.





## System Requirements

Hardware	iPad 2 or later (Wi-Fi + Cellular)
Operating System	iOS 7 or later
System Accounts	A HFBS project admin account is required to update project information and access right. A HFBS normal user account is required to access defect data.

# **Get Started**

#### **Download and Installation**

Search "HFBS Defects Management for iPad" on the Apple AppStore or use following link to download app: <u>https://itunes.apple.com/us/app/hfbs-defect-management-for/id973748841</u>.

After the download has finished, click the "Defect Mgmt" icon on your iPad to run the application.

#### Registration

If you don't have HFBS account, click the "Register" button to register with HFBS.

If you are contractor, please confirm the domain of project that you want to access with your project administrator, the domain is required information in the registration process.

After you successfully registered your account, please notify project administrator with your username, and ask for the access to project defects, administrators can grant this access using the defect app itself.

#### Login and Select Project

Use HFBS login details to access Defects Management module. After successfully logging in, click on "Select a Project" button on top bar and select a project from the list.

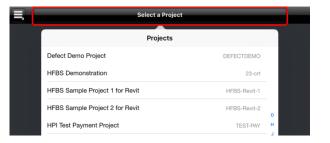
## Create a Project

If you don't have project, click on menu button and select "Create Project".



HFBS





ealth Facility Briefing System

# Inspections

An inspection is a group of defects or site checks, creating an inspection occurs when visiting a site to record this information.

+ Add Inspection

🧪 Edit

#### **Create an Inspection**

To create inspection, click "Add Inspection" button.

List of defects by inspection

Type inspection title, date then click OK button, new inspection would be created.

Create Ir	Close	
Title	Emergency department inspectio	n
Date	26.02.2015 11:03:00	
	0	ĸ

#### Update an Inspection

Click on the icon of each inspection in list to show inspection update screen.

26.02.2015 Admin Unit Inspection

#### **Delete an Inspection**

#### **Delete Single Inspection**

Swipe left inspection item in list to enable delete function.



#### **Delete Multiple Inspections**

Click on "Edit" button on top bar of inspection list to enable multi-delete mode.



After you have finished deleting inspections, click on the "Done" button.

- When you delete an inspection, all defects in this inspection will be deleted.
- Inspections that you don't have permission to delete will be highlighted in a different colour.

List	of defects by inspection	🧪 Done	+ Add Inspection
•	16.06.2016 Permission Test		
22.0			
•	11.11.2015 JZ Re-Inspection		
•	26.02.2015 Inspection Before Handover		
•	29.01.2015 Administration Unit Reinspection		
•	27.11.2014 Admin Unit Inspection		



A defect is an issue or non-conformance with the agreed design for a particular item on a construction site. The Defects module can record these issues in detail & manage the process of fixing defects.

## **Record a Defect**

On defect list, click on "Add" button on top bar and choose "Defect" to create new defect form.



Fill defect form and click "Save" button to create new defect.

Title	Category	•	Location	▼
27.11.2014 16:17:00 Admin Unit I	nspection	•	Attachments	
Status Open Fixed Pending Reject Description Action Required		Low	Tap to add new image/ video attachment	<
				Save

Primary Fields: Title, Category, Location, Inspection, Status and Severity.

Title is short description of defect. (For details information of defect, please use description field.)

Select Location of defect. If location of current defect does not exist in list, you can scroll to bottom and select "Other" to create new location.

Status "Open" and Severity "Major" are selected by default.

Optional Field: Description, Action Required, Attachment and all other fields.

#### **Create a Defect Location**

The Defects module loads location from Briefing module, however, if you can't find the location for a defect, such as roof, corridor you can create new location. Scroll to bottom of location list, and select "Others".

B

Open

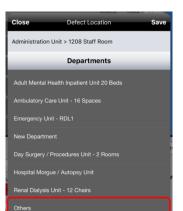
Risk of damage

Title A/C temp sensor

27.11.2014 16:17:00 Admin Unit Inspection

Type Department and / or Room information, and then click "Save" button:

Close	Defect Location	Save
New Departm	ent > 1003 New Room	



## Attach Media to a Defect

You can take photos, record videos, or choose existing photos from albums to attach to defects.

Note: Each defect allows maximum 10 attachments.

You can edit images before attaching to a defect. Different colours and
pen sizes are available, and a "Caption" field is optional for a short
description of media file.

Click on "Edit Attachment" button to enable attachment deletion mode.

To delete attachment, click on 😢 button of each attachment.

Click "Done" button to cancel attachment deletion mode.







Sh Open 27.11.2014

Location Admin

Attachments

Category Building Fabric V

•

Low

Take a Picture

Capture a Video

Choose Existing

•

Edit Attachments

#### Add Extra Information to a Defect

Click on the large blue arrow button at the left of defect form (or swipe left on defect information panel) to show extra fields including alert, cost, assigned to and etc.

27.11.2014 16:17:00 Admin	Unit Inspection	•	F	ix Date	Cost
Status	Severity		Required	Estim	ated
Open Fixed Pending	Rejected Critical Major Minor	Low	Estimated	Appro	wed
Description Action Red	quired Action Taken		Actual		
Strike too long     Assigned to     "Aladin Niazmand", "Jianing Zhang"					
			Alert		
			Delete	Assign To Save	As Save

#### **Setup Local Device Notification**

In the extra information panel, you can setup a device alert for individual defect. Click on alert field and set a time to enable it.

Title Light switch cover plate Category Building Fabric	▼	Location Ad	ministration Unit > 120	8 Staff Room	•	0
27.11.2014 16:17:00 Admin Unit Inspection			Fix Date	С	Cost	
Status Severity		Required		Estimated		
Open Fixed Pending Rejected Critical Major Minor L	.ow	Estimated		Approved		•
Description Action Required Action Taken	Edit	Actual				
Jianing Zhang (jianingzhang) 08.05.2015 11:40:4	49	Assigned to	"Jianing Zhang", "Alad	in Niazmand"		•
ok I got it		Alert	28.07.2016 11:55:00			
Defect Demo (defectdemo) 08.05.2015 11:35:3 repaint it	56	Delete	Assign To	Save As	Save	

Device notification is shown as below.



## **View Defect History and Progress**

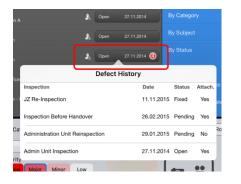
A Defect can be saved into multiple copies for different defect inspections in order to track and compare progress. Open an existing defect, make necessary changes and select new inspection from inspection dropdown list.

Inspe	Inspections	Add	Status	Date Q	Inspection Summary Report of defect summary (PDF	orts
tion	16.06.2016 11:23:00 Permission Test		Open	27.11.2014 🙆	Landscape)	Filters
Loca	22.02.2016 11:06:00 Test Inspection		Open	27.11.2014	Inspection Defect Details Report of defect details with QR Code, one defect per page (PDF Portrait)	ers
ann	11.11.2015 12:40:00 JZ Re-Inspection		Open	27.11.2014 🚳	Inspection By Room	Sort
Cate	26.02.2015 11:13:00 Inspection Before Handover		Open	27.11.2014	Report of defect details by room (PDF Landscape)	ā
Code	29.01.2015 10:17:00 Administration Unit Reinspection		Open	27.11.2014	Construction Inspection Report of construction inspection (PDF Landscape)	
I OR	27.11.2014 16:17:00 Admin Unit Inspection		Open	27.11.2014	Inspection Executive Summary	
			Loca	tion Administra	tion Unit > 1208 Staff Room	0
	27.11.2014 16:17:00 Admin Unit Inspection	•	Attac	chments	Edit Attachments	
S	tatus Severity Open Fixed Pending Rejected Critical Major Minor	Low				
	Description Action Required Action Taken		V	200000	+	

Click "Save As" button and choose "New Inspection of Same Defect", a new copy of defect inspection will be saved.



You can view all defect inspection by clicking status and date button at right of defect item:



E.g. As you can see from above screenshot, there are three defect inspections for single defect, and each of them has different status with different inspection date, you can easily compare and track the progress.

Swipe up on selected defect (or click arrow icon on top right) to show the previous inspections for this defect, this is the way of comparing and tracking defect progress with more detail information.

26.02.2015 11:13:00 Inspection Before Handover	
29.01.2015 10:17:00 Administration Unit Reinspection	
27.11.2014 16:17:00 Admin Unit Inspection	
Title Light switch cover plate Category Building Fabric V	Location Administration Unit > 1208 Staff Room
11.11.2015 12:40:00 JZ Re-Inspection	Attachments Edit Attachments
Status     Severity       Open     Fixed     Pending     Rejected     Critical     Major     Minor     Low       Description     Action Required     Action Taken       Gap between plate and wall. Plate bowed. Something fixed	Tap to add new image/
	video attachment           Delete         Assign To         Save As         Save

You can swipe up (or select inspection from dropdown) to compare a selected defect with different stages, you can click "Edit" button to modify inspection of defect.

Title: Light switch cover plate	Category: Building Fabric	Location: Administration Unit > 1208 Staff Room	20
11.11.2015 12:40:00 JZ Re-Inspection	•	Attachments	
Status Fixed	Serverity Major		
Description Action Required			
Gap between plate and wall. Plate bowe	d. Something fixed		```
Title Light switch cover plate	Category Buildin	Location Administration Unit > 1208 Staff Room	•
27.11.2014 16:17:00 Admin Unit Inspecti	on	Attachments	Edit Attachments
Status Open Fixed Pending Rejected Description Action Required Ac Gap between plate and wall. Plate bowe	Severity Critical Major Minor Low tion Taken d.	Tap to add new image/	(
		video attachment Delete Assign To Save As	Save

#### Update a Defect

Select an existing defect, make changes and click "Save" button to update selected defect.

#### Save As

If location of defect has changed, you can only save defect as new one. If inspection of defect is changed, you can either save as new defect or new defect inspection.

#### **Deleting a Defect**

Select defect from list, and click "Delete" button:

Defect	
	Defect
Inspection of Selected I	Jelect

Selecting "Defect" will delete all defect inspection records for this defect.

Selecting "Inspection of Selected Defect" will only delete selected defect inspection record.

## **Searching Defects**

To search defects, click on search area on top bar, search bar will be expanded.

Back	Admin Unit Inspection		<b>?</b> Access	🕂 Add
SAID	Defect Title & Location		Status	Date
10000001497 <b>8966</b>	Door seal Emergency Unit - RDL1 > 4201 Airlock - Entry, 10m2		Open	27.11.2014 🙆
10000001497 <b>8967</b>	Roller shutter Administration Unit > 1208 Staff Room	2	Open	27.11.2014
10000001497 <b>8971</b>	Light switch cover plate Administration Unit > 1208 Staff Room		Open	27.11.2014
10000001497 <b>8968</b>	A/C temp sensor Administration Unit > 1212 Office Type A		Open	27.11.2014
10000001497 <b>8970</b>	Door strike Administration Unit > 1217 Shared Office Type B	<u>م</u>	Open	27.11.2014
10000001497	Vinyl floor	٩	Open	27.11.2014

Enter a keyword in the text field then click search on keyboard, result will be filtered by keyword.

Back	Admin Unit Inspection		+ Add Defect
Q Door			Cancel
10000001497 <b>8966</b>	Door seal Emergency Unit - RDL1 > 4201 Airlock - Entry, 10m2	Open	26.02.2015 10:27
10000001497 <b>8970</b>	Door strike Administration Unit > 1217 Shared Office Type B	Open	26.02.2015 10:27

To cancel the search, click on "Cancel" button.

## **Upload all Attachments**

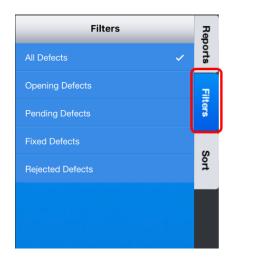
A quick way to upload attachments:



Use this function to upload all attachments including photo / video / audio from this device to server.

#### Filter and Sort Defects

You can filter defects shown in the list by "Defect Status" and sort by "Location", "Category", "Status", "Severity" and etc.

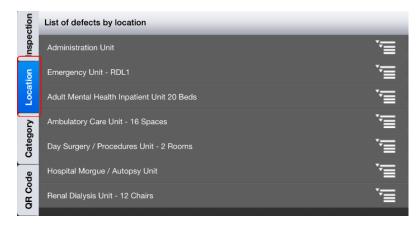


Sort	Rep
By Location	Reports
By Category	Ţ
By Subject	Filters
By Status 🗸	6
By Severity	iort
By Required Fix Date	
By Estimated Fix Date	

# Location

A location is a physical place inside the site you are inspecting; this could be a department, room or area.

Click on the "Location" tab on left navigation to show the locations in the project, from here you can browse defects and site checks by department by department, or room by room.



The Department list will be shown as root level location. You can click on individual departments to view defects of selected department, or you can click on sub item icon to view rooms of selected department.

List of defects by location	
Administration Unit	Ţ.
Adult Mental Health Inpatient Unit 20 Beds	Ţ.
Ambulatory Care Unit - 16 Spaces	Ţ
Emergency Unit - RDL1	Ţ
New Department	Ţ
Day Surgery / Procedures Unit - 2 Rooms	Ţ
Hospital Morgue / Autopsy Unit	Ē

In the rooms view, you can search by room name and tag.

Back Administration Unit	
<u>्</u> w	0
1201 Waiting Area	Ţ.
1219 Workstation A	Ţ.
1220 Workstation B	· <u>·</u>
1221 Shared Workbase	Ţ

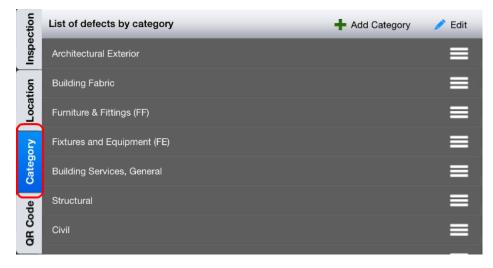
Note: The initial location list will be imported from HFBS Briefing module; you can add custom locations when you create new defects.



# Category

A category classifies site checks or defects into logical groups such as exterior, FF&E, Structure ect.

Click on "Category" tab on left navigation to show category information of project, from here you can browse defect category by category.



Click on individual item of list to show defects of selected category.

Click on "Add Category" to create new category.

Click on "Edit" to edit category list, you can enable multiple deletion of category items in list.

Swipe left individual item will show delete option of selected category.

Click on icon at end of item to view and update category name.

Furniture & Fittings (FF)

# Reports

There are multiple report templates available in the Defects module. They can be found on the right panel.



If you browse defects by inspection, the report panel will show all available report templates for selected inspection. If you browse defects by location, report panel will show all available report templates for selected location. If you browse defects by category, report panel will show all available report templates for selected category.

Here is sample of "Inspection by Room" report.

				DEFECTDE	MO : Defect Demo Pr	ojeci		
ISPECTI ISPECTI ISPECTI	ON DATE:	Admin Unit Inspection 27-Nov-14 Defect Demo						
UMMAR	Y:	# of Rooms: 5	# of Defects: 6	# FIXED: 0	<b># OPEN:</b> 6	# PENDING: 0	# REJECTED: 0	
lm No	ID #	Rm Name	Defect	Description	Action	Ren	narks / Images	Statu
208	1000001497 8967	Staff Room	Roller shutter	Shutter is finger trap. Door to heavy.	Add blocks either side to prevent finger trap, adjust spring for functionality.			OPE
208	10000001497 <b>8971</b>	Staff Room	Light switch cover plate	Gap between plate and wall. Plate bowed.	Plate to be fixed flat and true. Adjust cables if necessary. Sealant not acceptable to seal gap.			OPE
lm No	ID #	Rm Name	Defect	Description	Action	Ren	narks / Images	Statu
212	1000001497 8968	Office Type A	A/C temp sensor	Risk of damage	Investigate moving out of reach or removing all together and patch wall or provide protective cover.			OPE
				Print Date: 5-Mar-15			Issue No: 1 Issue Date: 05.03.2015	Page 1 of
							Issue Date: 05.05.2015	

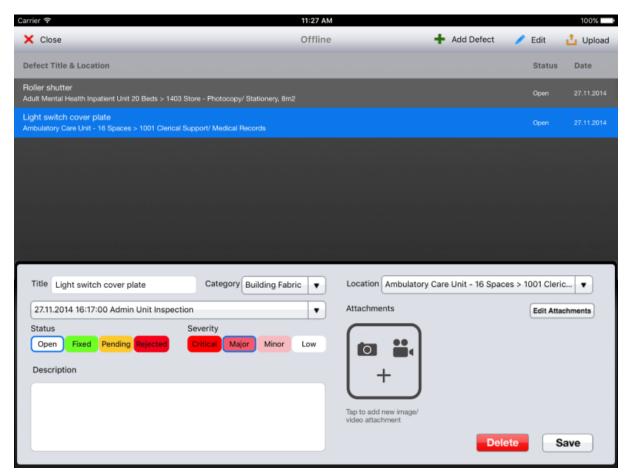
You can generate report on iPad, and click share icon to share or print report.

# **Offline Mode**

Defects module has offline mode which provides temporary access to the modules functions whilst there is no internet connection. When you are back in a location with internet, you can sync the offline changes back to the central server. To start offline mode, click offline icon on top bar, you will be in offline mode.



In offline mode, you can still create defects and capture images, however, "Add New Inspection" will be not available.



Upload Defects to the Server:

When you get live Internet connection, and want to upload offline defects to server. You can click "Upload" button in top bar of offline mode.

If you are not in offline mode, you can click offline icon on top bar and choose "Upload Offline Defects" option.



HFBS | hfbsinfo.com | (+61) 9460 4199 | techsupport@healthdesign.com.au

If you have it installed you can open HFBS Briefing module app from Defects module, the Briefing module will automatically load the information of the location of selected defect, including Fabric, FF, FE and etc.



The HFBS Briefing for iPad can be downloaded from the AppStore:

https://itunes.apple.com/au/app/hfbs-briefing-for-ipad/id893042433?mt=8

The HFBS Briefing module is an indispensable tool for specialist Healthcare Facility Design professionals. It allows user to rapidly create detailed project briefs using the Health Facility Guidelines as the base.



# Site Checks

A site check is a routine inspection of a construction site; it is not the same as a defect as it does not record issues. Site checks are used to record the progress of construction or audit of a process over time.

In the defects list view, click the "Add" button and choose "Site Check", system would create "Site Check" record.



Compared to "Defect" Record, "Site Check" has less information which is used for a quick site inspection to record ongoing progress of construction.

Title	Category	•	Location
16.06.2016 11:23:00 Permission Test		•	Attachments
Description			Tap to add new image/ video attachment
			Save

A Site Check has different icon to a Defect.

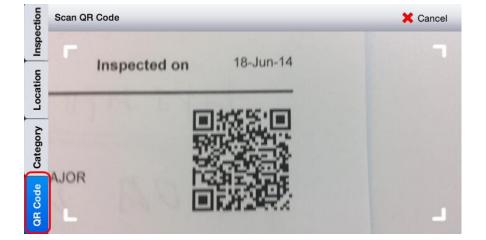


# Marking Defects with QR Codes

The defects module can print out QR codes in the reports section of the app covered above, these can be added to a construction site.

Users can then scan these with the application open to automatically locate and open a defect or site inspection in the application.

Click on "QR Code" on left navigation, you can scan QR Code using iPad camera.



QR Code can be found from "Inspection Defect Details", "Location Defect Details" and "Category Defect Details" report.



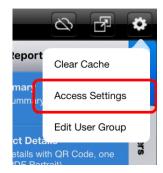
# **User Access & Security**

The Defects Module is multi-user system with different level of access control.

- **Contractor:** This user group can create / Update / Delete their inspection & defects, all the inspections and defects created by contractor are not accessible by other contractors unless you assign it to. If project administrator assigns defects to a contractor, this contractor can access defect with read only access level, and can only edit "Action Taken" field of defect.
- Defects Inspector: This user group can fully access and manage the defects in project.
- Defects Administrator: This user group have access to all features including permission control.

## Manage User Permission (Admin Function)

To manage user permissions, the logged in user account needs to be Project Administrator account, after select project & milestone; you can manage user permission by clicking Setting button on top bar, select "Access Settings".



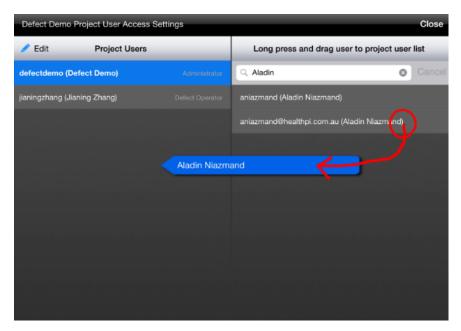
Users in list at left are "Project Users" who have access to project defects. Users in list at right are all HFBS users.

	Telstra 🗢	11:07	'am		859	6 <b></b> ) +
		Defect Demo Project Milestone: Default			F	\$
ction	Back	Admin Unit Inspection	+ Add Defect	Reports		Rep
Inspection	SAID	Defect Demo Project User Access Settings		Close		Reports
uo		Edit Project Users	Long press and drag	user to project user list		
Location		defectdemo (Defect Demo) Administrator	k20au (Anthony U.)			Filters
_			antonalers (Anton Alers)			
Category			Anton (Anton Alers)			Sort
			antonalers2 (Anton Alers)			
Code			Anuja (Anuja Deshpande)			
an	10000001497		арорар (Аро Рар)			
Tit	tle Light s		arash_63 (arash nab)		•	
2	6.02.2015 1		arashnabovvati (arash nab)			
	atus Open Fix		88758016 (arash nab)			
	escription		DINGSKI (ARMANDO LIMC	OLIOC)		1
	ap betweer owed.		Armen (Armen Minassian)			1
			Alert			
				elete Save As	Save	
				Save AS	Jave	

Project Administrator can search accounts by username, first name and last name in all HFBS user, and then add it to "Project User" list.



Long press and drag user from right and drop on left, user will be added to "Project Users" list.



When user added to "Project Users", there are two access levels can be set to this user:

Contractor can create and manage their own defect and take actions on assigned defects.

Defects Inspector can create / delete / update project inspection & defect.

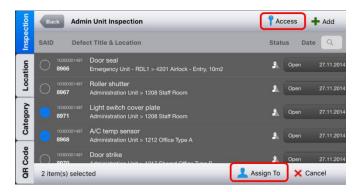


Note: User cannot be set to be Administrator within HFBS Defects Module.

Once a defect has been created it is possible to assign it to a contractor for them to complete, this is a good way to oversee defects as well as an effective method to communicate issues to other Defects Module App users.

#### Assign Group of Defects

Click on "Access" button on defect list view, and you can select multiple defects and click "Assign To" at bottom bar to give access to contractors.



#### **Assign Single Defect**

In defect information panel, you can click on "Assign to" button to give access of this defect to a contractor.



#### **Delete Contractor Access to a Defect**

Click on large blue button at left of defect information panel, show extra information. Click on Assigned to field, list of user who can access to this defect will appear. Click on Edit button to remove user from list.

pen 27.	Defect Access Users	Edit	pen 27.	Defect Access Users	Done
en 27.	Aladin Niazmand (aniazmand)	<u> </u>	əen 27. 😑	Aladin Niazmand (aniazmand)	
en 27.	Jianing Zhang (jianingzhang)		pen 27. 🤤	Jianing Zhang (jianingzhang)	
en 27.	dmtester1 dmtester1 (dmtester1)		pen 27. 😑	dmtester1 dmtester1 (dmtester1)	
Location		<b>I</b>	Location		
		Done			
Required			Required		
Estimatec			Estimatec		
Actual	·		Actual		
Assigned 1	o "Aladin Niazmand", "Jianing Zhang",	"dmtester1	Assigned to	'Aladin Niazmand", "Jianing Zhang",	"dmtest
Alert			Alert		
Delete	Assign To Save As	Save	Delete	Assign To Save As	Sa

Users of the defects module can communicate & collaborate inside the module using the "Action Taken" tab inside a defect. This tab serves as a running commentary on the defect or site check.

All users who can access a defect can post messages inside the defect, all other users with access can see this communication.

7.11.2014 16:17:00 Admin Unit Inspection	•	Attachments	Edit Attachments
Open Fixed Pending Rejected	everity Critical Major Minor Low		
Jianing Zhang (jianingzhang) ok I got it	n Taken Add Edit 08.05.2015 11:40:49	Tap to add	
ok l got it Defect Demo (defectdemo)	08.05.2015 11:35:56	Tap to add video attact	

Click on "Add" button to post new message.



Click on "Edit" button to delete your message posted.



E		Defect Demo Project Milestone: Default	ct		F	¢
	ction	List of defects by inspection	🧪 Edit	+ Add Inspection	Reports	Rep
	Inspection	11.11.2015 New				Reports
	tion	26.02.2015 Inspection Before Handover		≡		
	Location	26.02.2015 Emergency Department Inspection		≡	Please select	
	gory	29.01.2015 Administration Unit Reinspection		≡	Inspection/Location/Category or Scan QR Code	
	Category	27.11.2014 Admin Unit Inspection		≡		
	QH Code					
	Title	New defect Category Fixtures a	and E 🔻	Location Ambulatory	Care Unit - 16 Spaces > 1004 Toilet ▼	
	26.	02.2015 11:13:00 Inspection Before Handover	•	Attachments		
	Stat	us Severity Den Fixed Pending Rejected Critical Major Mind	or Low			
	De	escription Action Required Action Taken		+		
				$\square$		`
				Tap to add new image/ video attachment		
				Delete Ass	sign To Save As Save	

More information: hfbsinfo.com