

MAGMAN II Operational Manual



Contents

1.0 General Information	4
2.0 Magman You tube Channel and Contact details	4
Part 1 Magman Explosives Inventory Web	4
3.0 Magman Web System	4
3.1 Software Specifics	4
3.2 System Security Levels	5
3.3 Magman Web Hierarchy	6
4.0 Basics functionality of the Magman System	7
4.1 Adding a User to the Magman system	7
4.2 Assigning a user to the Site	10
4.3 Assigning a user to the Magazine	11
5.0 Adding locations to the tablet	12
5.1 Adding Single Locations	12
5.2 Adding Multiple Locations	13
6.0 Adding inventory items to a magazine.	14
7.0 Adding Production Blasts	16
Part 2 Magman Explosives Inventory Tablet	19
8.0 Magman Tablet - Getac F110 Intrinsically Safe Tablet	19
8.1 Battery	19
8.2 Synching the Magman Tablet	20
8.3 Connecting the tablet to the internet.	20
8.4 Sync	22
8.5 Tablet Keyboard	22
8.6 Web Magazine transactions	23
9.0 Tablet Transactions	23
9.1 Take / Return from the Magazine	23
9.2 Saved Take	25
9.3 Production Plans	25

Figures

Figure 1. Magman II Hierarchy	65
Figure 2. Example of Magman II Hierarchy	6
Figure 3. Getac tablet keyboard button	7
Figure 4. Client web screen	8
Figure 5. Add User Button	8
Figure 6. User set up	9
Figure 7. Assigning user to a group	10
Figure 8 Assigning the user to the site	11
Figure 9. Assigning the user to the site	11
Figure 10. Assigning the user to the site	11
Figure 11. Assigning the user to the Magazine	12
Figure 12 Assigning the user to the Magazine	12
Figure 13. Assigning the user to the Magazine	13
Figure 14. Add a single location	13
Figure 15. Add multiple locations	14
Figure 16. Multiple location upload template	14
Figure 17. Confirmation of the uploads	15
Figure 18. Uploading new inventory items to the magazine	15
Figure 19. Current magazine Inventory items	16
Figure 20. Importing Locations	16
Figure 21 Adding / Removing Inventory from your Magazine	17
Figure 22 Adding / Removing Inventory from your Magazine	17

1.0 General Information

The Magman Electronic Explosives Inventory System consists of two separate components :

- Part 1.** Website which controls the Magman system, stores and backs up the system database, allows the generation of inventory reports, controls the deployment of inventory items, personnel and locations onto the tablet.
- Part 2.** Tablet which is a simple visual inventory control system designed for operators to record transactions, complete stock takes and check running inventory levels.

Part 1 of this manual addresses the Magman website

2.0 Magman Youtube Channel and Contact details

Magman has a Youtube Channel with a variety of training videos. Search for Youtube Magman or enter the following link into your web browser. <https://www.youtube.com/channel/UCeuonp1a9wU5pGGqChx9GeQ>

For enquiries, the Magman team can be contacted at help@magman.net.au or Ph 1300 624 626.

Part 1 Magman Explosives Inventory Web



NOTE:

Depending on the security levels set for your magazine, the screen images below may differ.

3.0 Magman Web System

Website : <https://XXXX> The file path is provided with your system set up.

3.1 Software Specifics

The Magman software uses the Windows 10 platform in conjunction with Microsoft's Azure Database hosted on the east coast of Australia. Magman web hosted on a secure https:// web site.

The program language for Magman II is - Type.script (Java Script) and Asp.net.core (Backend web)

It is recommended that clients establish a regular back up process to ensure compliance with their own internal governance requirements.

3.2 System Security Levels

The security levels are set up on the web, prior to dispatch of the system to site.

The security levels can be set to allow personnel to have access to the tablet, the web or both.

The functionality which is available through the security settings include:

- Managing the addition of Magman Users and assignment to the pre-determined security levels.
- Manage the inventory on the system through the addition / removal of inventory items in each magazine.
- Allowing the re-set of personal details.
- Addition of inventory items from the global inventory list.
- Establish customised reporting templates.
- Establish customisable definable fields or questions for users to provide specific data.

The data captured in the system for each transaction includes:

- Date
- Time
- User
- Inventory movement
- Location for the items

3.3 Magman Web Hierarchy

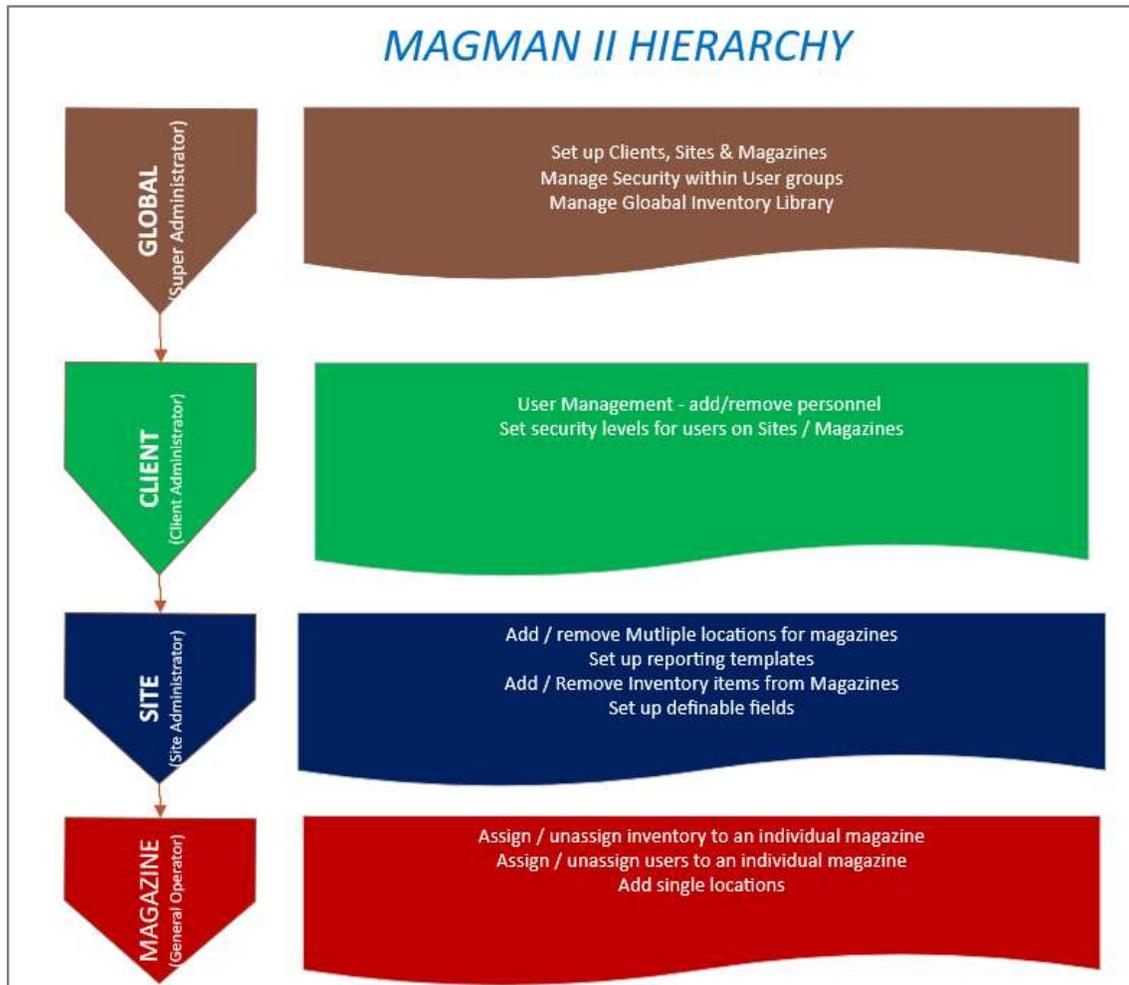


Figure 1. Magman II Hierarchy

The Magman II system is set up with hierarchical levels to allow the control of security levels. The hierarchy allows companies to customise the security levels assigned to the personnel within their business.

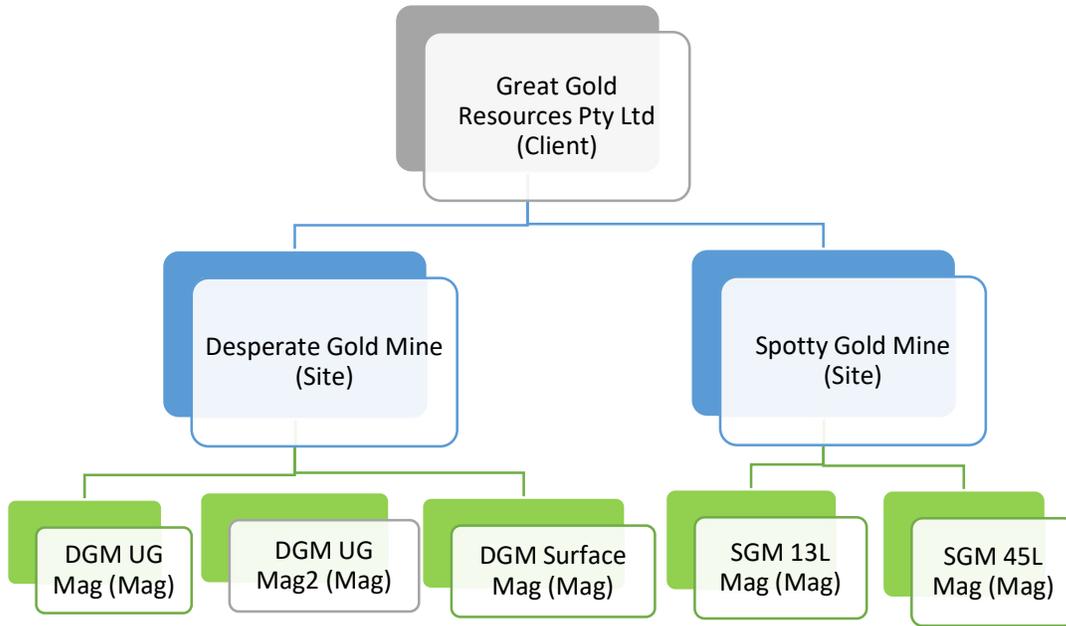


Figure 2. Example of Magman II Hierarchy

The hierarchy levels are important for the client administrators to understand.

It is also important to understand the definition of the systems:

Users – person assigned to add / remove items on the tablet and/or the web browser.

Contact – A person who is contacted in relation to the magazine licensing or in case of an emergency.

4.0 Basics functionality of the Magman System

Below is an outline of the basic functionality available on the web browser.

4.1 Adding a User to the Magman system

On the main screen of the Web browser <https://XXXX/Login>, you will have access to the Icon “User Management”. This Icon allows you to add new users into the system.

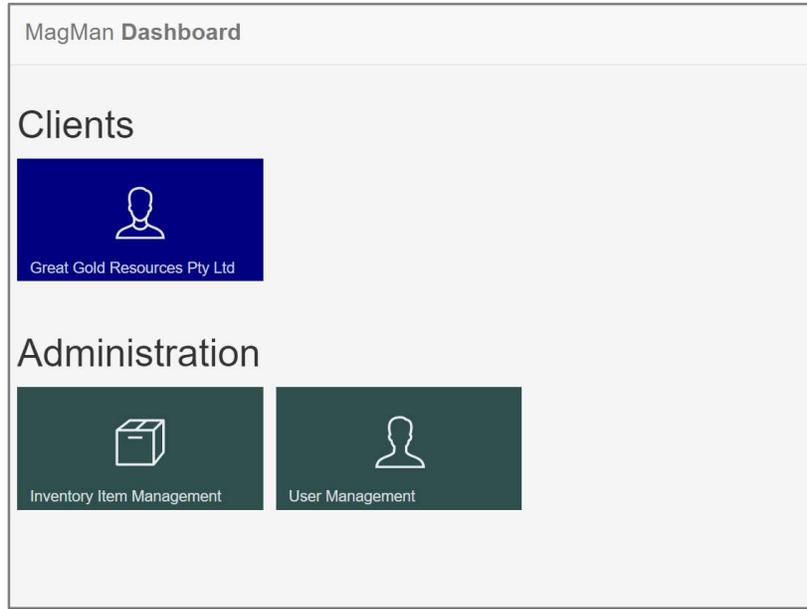


Figure 4. Client web screen



Figure 5. Add User Button

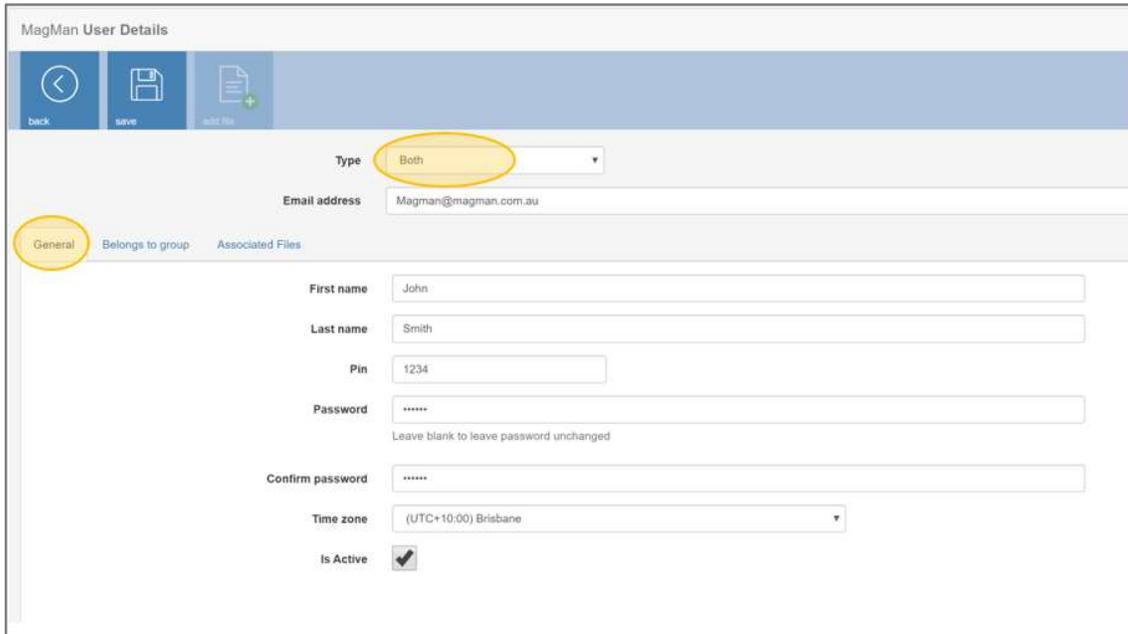


Figure 6. User set up

NOTE: Most operators will only require access to the tablet in the “Type” drop down box. System administrators will generally only require access to the Web

Populate the relevant fields **Note: If a person is to operate at an Admin level they will require a unique email address to be added to the system.** (The is driven by selecting Tablet / web or both)

CAUTION: The password must contain a minimum of 6 characters

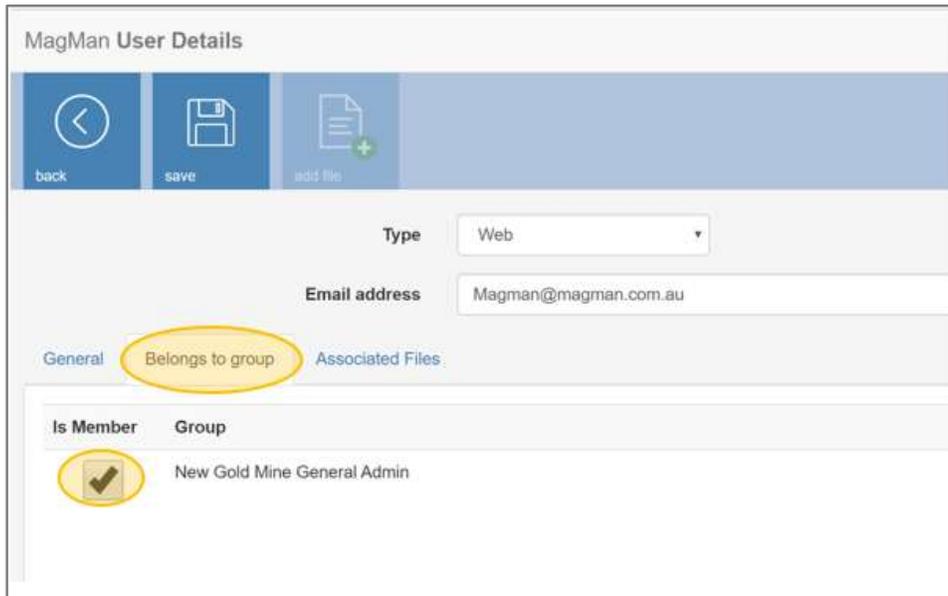


Figure 7. Assigning user to a group

Select the relevant group for the individual. This will provide them with the level of access / security rights they have available to them.

NOTE: Users need to be assigned to the “Site” and then the “Magazine” before they will appear on the tablet once synced

4.2 Assigning a user to the Site

To assign the individual to the operator, client, select the Clients.



Figure 8 Assigning the user to the site

On the Site Screen, click on the Pencil Icon  -> select the User Access.

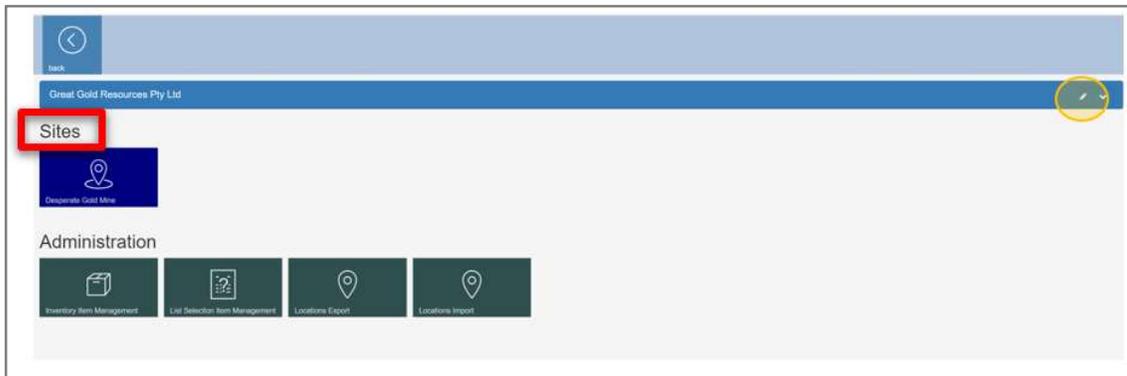


Figure 9. Assigning the user to the site

Click on the check box adjacent to the person who you want to assign to the Site and 

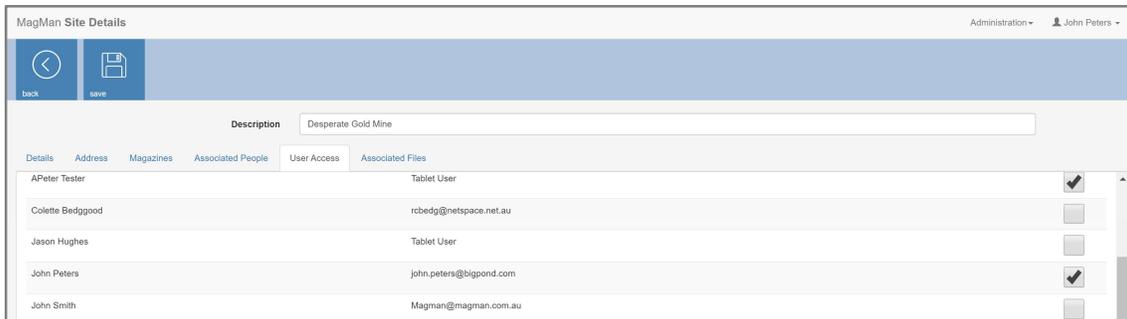


Figure 10. Assigning the user to the site

4.3 Assigning a user to the Magazine

To assign a user to the Magazine, select the magazine which you want to add the person to. (Refer to the following screens).

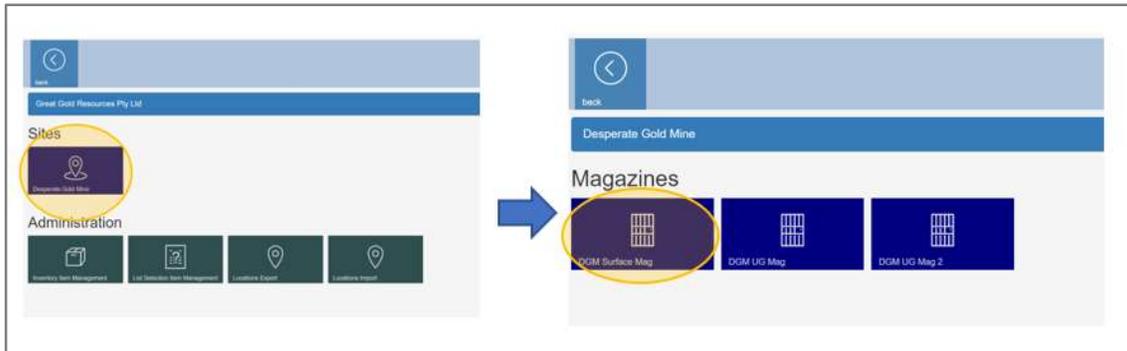


Figure 11. Assigning the user to the Magazine

Select the pencil icon  on the Magazine screen.

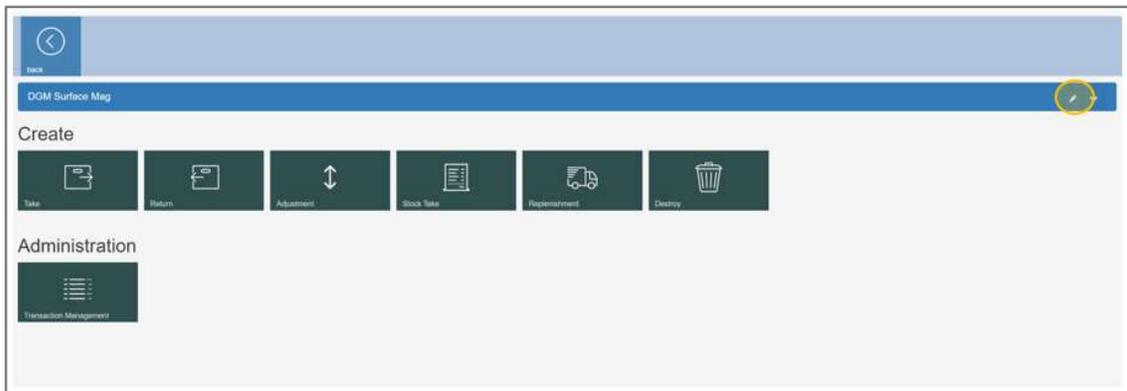


Figure 12 Assigning the user to the Magazine

Check the box adjacent to the User you want selected for that magazine.

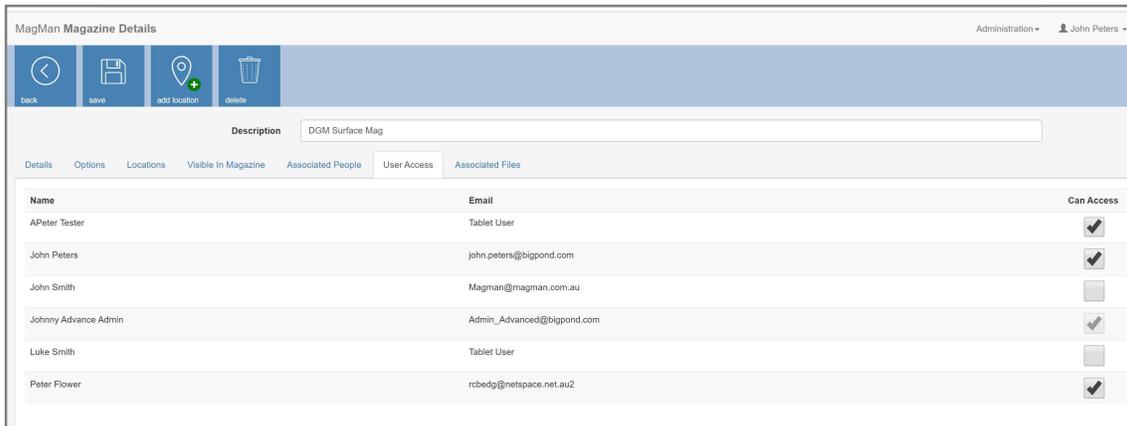


Figure 13. Assigning the user to the Magazine

Once the tablet is synced, the **User's** name will appear on the tablet.



NOTE: If you have security restrictions which don't allow you to complete the above process contact your site Magman Administrator or Email help@magman.net.au

5.0 Adding locations to the tablet

There are two ways of entering locations to the Magman system :

1. Upload bulk locations,
2. Upload individual locations.

5.1 Adding Single Locations

In the Magazine screen on the web, Select the "Locations" tab (refer above on how to navigate to this screen)

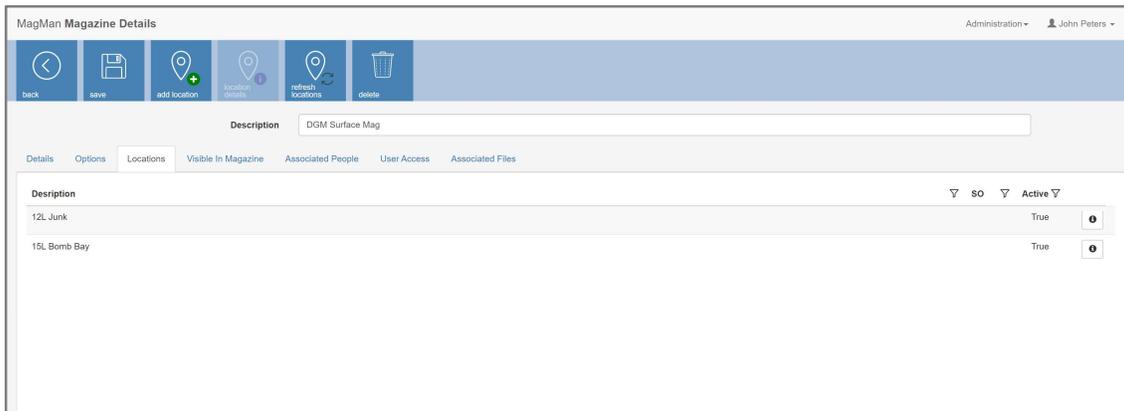


Figure 14. Add a single location

Simply select the  icon and type in the name of the location and Save.

5.2 Adding Multiple Locations

To add multiple locations follow the instructions below:

The multiple addition of locations is done through the use of an excel template. The easiest way to do this is to maintain the excel template to update locations as required.

Select the export Locations tab.

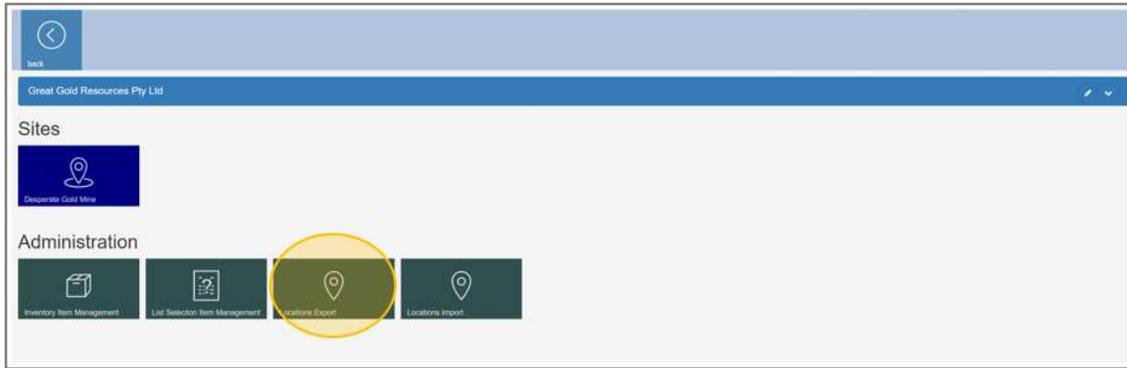


Figure 15. Add multiple locations

When you activate the “Location Export” the following template will be produced.

Site	Magazine	Description	Sort Order	Is Active
Desperate Gold Mine	DGM Surface Mag	12L Junk		TRUE
Desperate Gold Mine	DGM UG Mag	100L Big drive		TRUE
Desperate Gold Mine	DGM UG Mag 2	34 ramp		TRUE

Figure 16. Multiple location upload template

To add locations, add additional rows into the excel template, completing each of the columns.

Once completed, simply use the “Locations Import” and select the excel template file you have just populated.

You will receive the following screen confirming the imported locations.

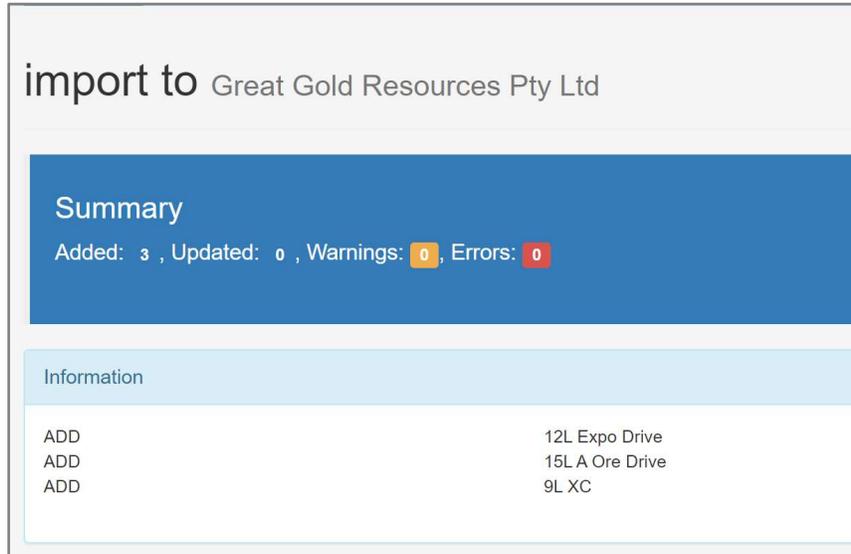


Figure 17. Confirmation of the uploads

6.0 Adding inventory items to a magazine.

The Magman system contains a database of standard explosive inventory items which can be downloaded into individual magazines.

Select “Inventory Item Management” from the Web screen.

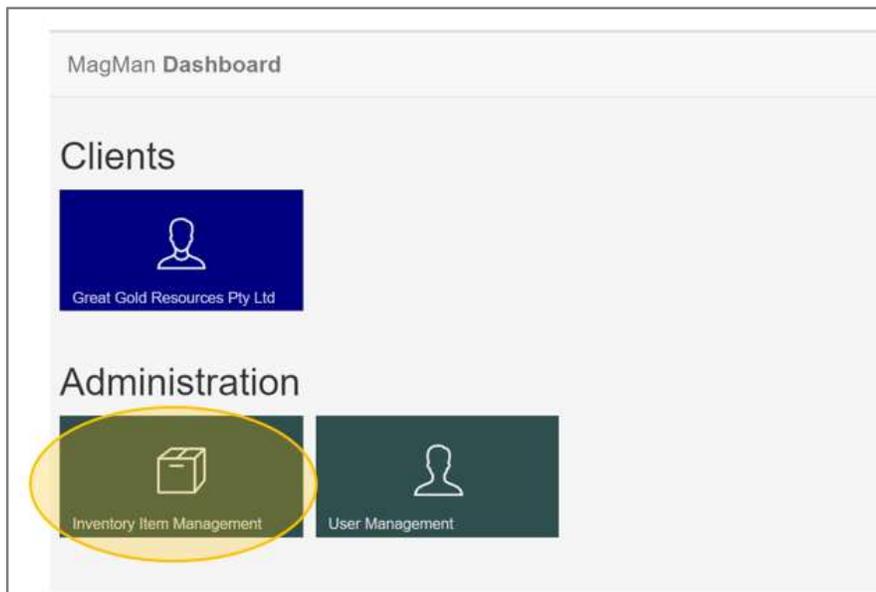


Figure 18. Uploading new inventory items to the magazine

A screen will appear which shows your current inventory items. These items are specific to your magazine/s.



To load additional items. Select

MagMan Inventory Item Management: Administration - Super Administrator

back add item items details load inventory items

PLU	Description	Type	Category	Unit	Base Unit	Active	SO	
ELTRON-DYNO-SMRTSHOT-010M-25-V1	Smartshot Dyno 10m	Development Det	5.4m Dyno LP Dets	Det	Box	True		i
ELEC-ORICA-ELDET-SII-32-V1	Elect Det	Electric Det	Elect Dets	Box	Det	True	0	i
LPDET-MAXM-MAXNEL-048m1-85-V1	4.8m MAXAM LP#1	Development Det	4.8m Maxnel LP Dets	Det	Box	True	301	i
LPDET-MAXM-MAXNEL-048m2-85-V1	4.8m MAXAM LP#2	Development Det	4.8m Maxnel LP Dets	Det	Box	True	302	i

Figure 19. Current magazine Inventory items

Select the inventory items from the global list, by checking the “Import” box adjacent to the inventory item/s.

MagMan Inventory Item Management: Administration - Super Administrator

back load inventory items select all select none

Select items to import by selecting the "Import" checkbox then select the Load button on the toolbar to import the selected items into the current client.

PLU	Description	Type	Category	Import
ELEC-NA-ELDET-PLAIN-16-V1	Plain Elect Det	Plain Detonators	Elect Dets	<input checked="" type="checkbox"/>
ELEC-NA-ELDET-MILDET-20-V1	F2 Military Dets	Plain Detonators	Elect Dets	<input type="checkbox"/>
LPDET-MAXM-MAXNEL-048m1-85-V3	4.8m MAXAM LP#3	Development Det	4.8m Maxnel LP Dets	<input type="checkbox"/>
LPDET-MAXM-MAXNEL-048m4-85-V1	4.8m MAXAM LP#4	Development Det	4.8m Maxnel LP Dets	<input type="checkbox"/>
LPDET-MAXM-MAXNEL-048m5-85-V1	4.8m MAXAM LP#5	Development Det	4.8m Maxnel LP Dets	<input type="checkbox"/>
LPDET-MAXM-MAXNEL-048m6-85-V1	4.8m MAXAM LP#6	Development Det	4.8m Maxnel LP Dets	<input type="checkbox"/>

Figure 20. Importing Locations



Select icon.

These products are now available to be selected in each of the magazines.

To assign the inventory into the individual magazines, go to the magazine you want to add inventory to and select

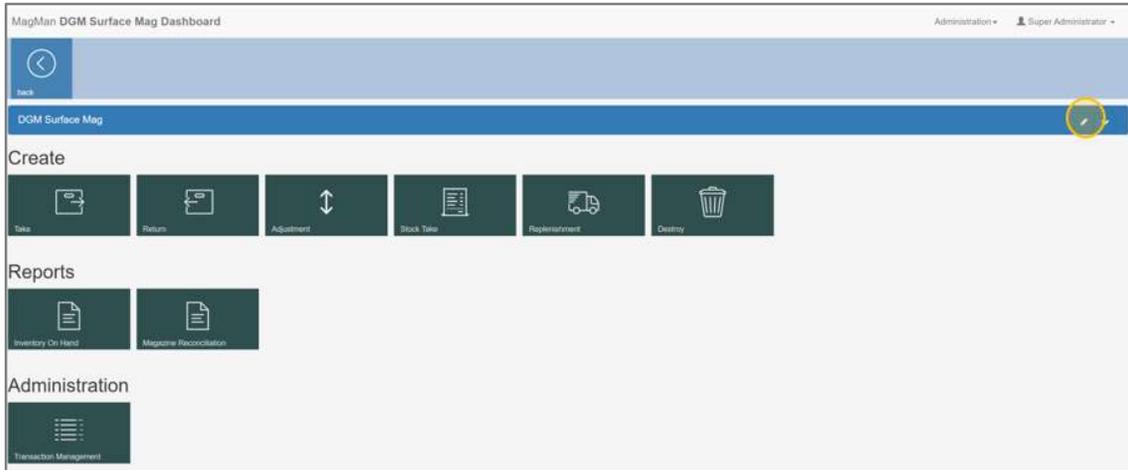


Figure 21 Adding / Removing Inventory from your Magazine

Check the boxes adjacent to the inventory item to be included into the magazine.

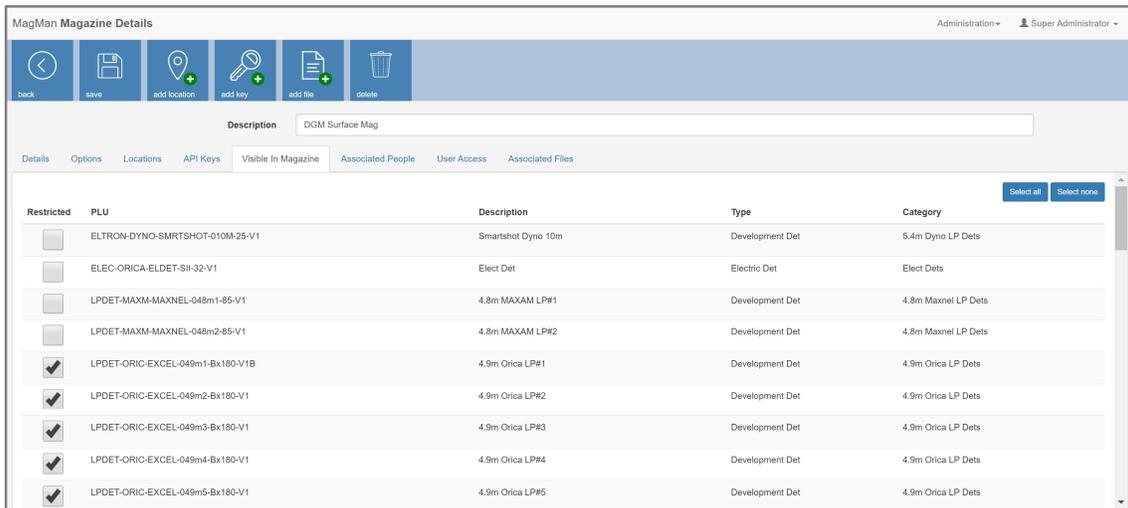


Figure 22 Adding / Removing Inventory from your Magazine

7.0 Adding Production Blasts

Production blasts can be entered into the Magman web. Once sync'ed the production blast will appear on the Magman Web.

To add a production blast to the system, go to the **Magazine** on the web browser. Select **Add Production Plan**.

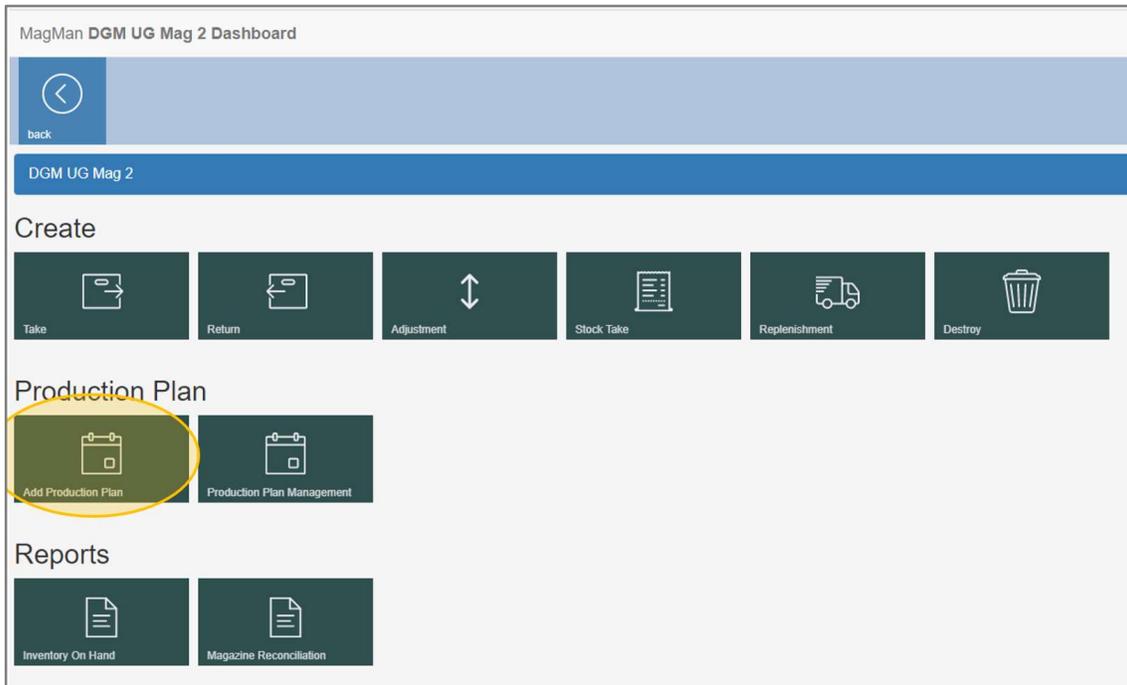


Figure 23 Add production Plan

Enter the products for the blast.

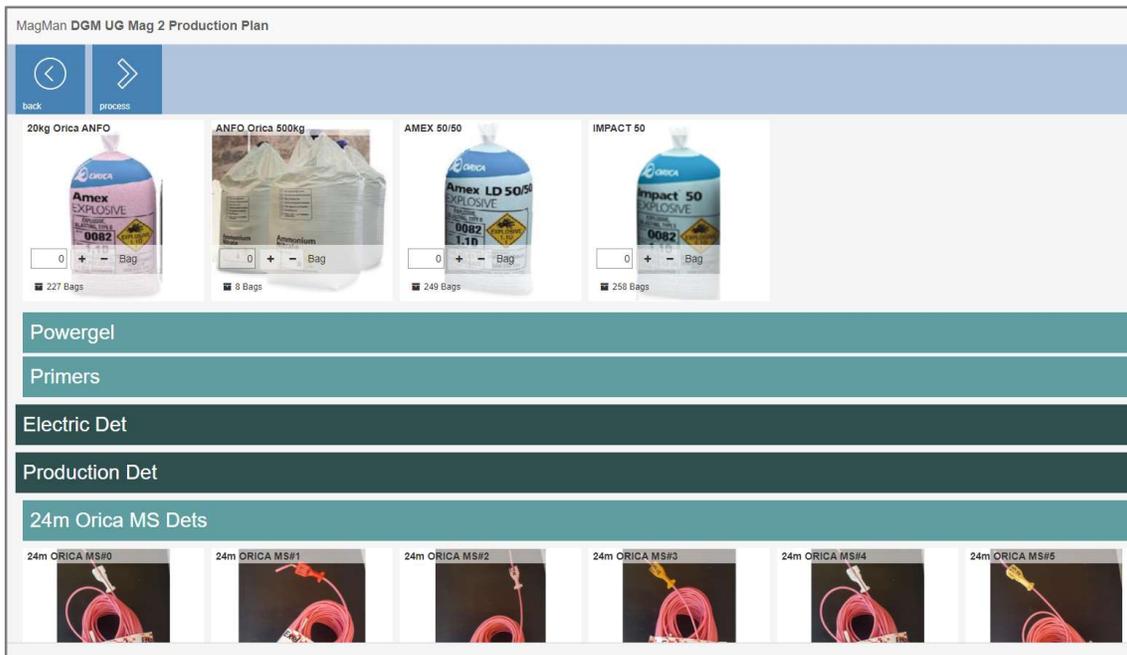
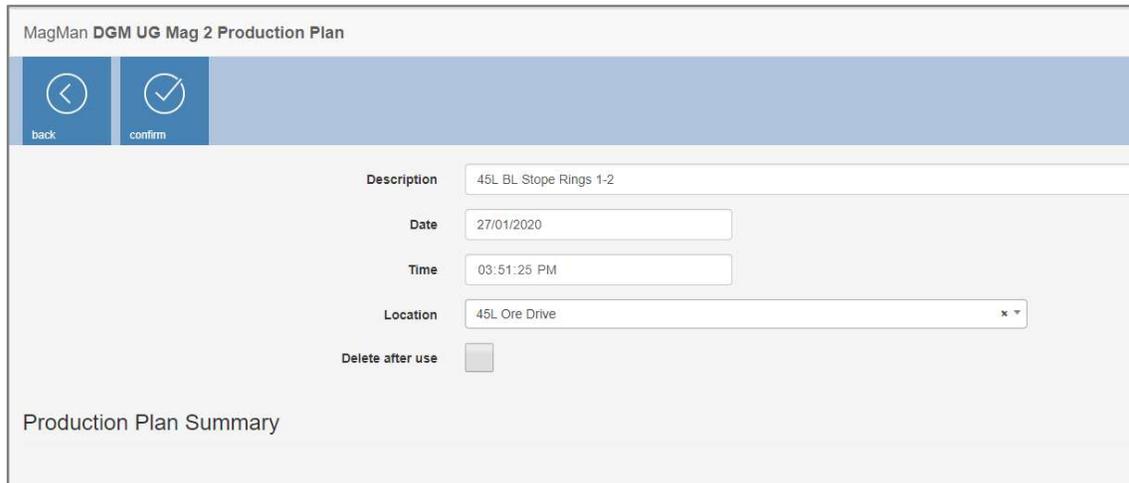


Figure 24 Enter in Explosives and Detonators for the Production blast.

Name the blast and 



MagMan DGM UG Mag 2 Production Plan

back confirm

Description 45L BL Stope Rings 1-2

Date 27/01/2020

Time 03:51:25 PM

Location 45L Ore Drive x

Delete after use

Production Plan Summary

Figure 25 Enter in the name of the Production Blast name and details

Once the tablet is synced the production blast will be available on the tablet for the operators to select.

Part 2 Magman Explosives Inventory Tablet

8.0 Magman Tablet - Getac F110 Intrinsically Safe Tablet

The Magman Mining Software – Explosives Stock control system is supplied on a Getac F110 tough intrinsically safe tablet.

The tablets have undergone RF/EM testing in a NATA accredited laboratory, to quantify the frequencies emitted from the tablet. The tablets do not emit any intentional emissions such as Bluetooth, WIFI, 3G, 4G, etc.

The Getac tablets comply to United States Military Standard 810, which provides certification that the tablet can withstand duty under harsh / extreme conditions.

The test reports and tablet certificates are available to clients to complete their own site risk assessment.

For further details, refer to the Getac Operators manual supplied with the tablet.

8.1 Battery.

The below indicators identify the charge levels of the tablet. *Note : The Getac F110 ATEC have the batteries screw in place so they cannot unintentionally be removed.*

Ref	Component	Description
4	Indicators	
	⏻ Power	Lights blue when the power is on.
		Blinks blue when the system is in Sleep mode.
	🔋 Battery Charge	Lights amber when the battery is being charged.
		Lights green when battery charging is completed.
		Blinks green to indicate the battery's built-in high temperature protection mechanism is activated. CAUTION: Do not remove the battery during this period.
		Blinks red (once per second) when the battery's capacity is below 10%.
		Blinks red rapidly (once per 0.5 second) when there is a thermal protection problem. Ask for repair service in case this happens.
Blinks amber when the battery charging is in an abnormal state. Replace the battery in case this happens.		

Figure 26 Battery indicator on the tablet

8.2 Syncing the Magman Tablet

The Magman tablet must be sync'ed to the cloud for the information to be uploaded to the cloud and download any changes which have been made in the cloud.

It is recommend that you sync the tablet on a daily basis.

The last sync date appears on the bottom left hand corner of the tablet.

8.3 Connecting the tablet to the internet.

As there is no WIFI or 3G/4G capabilities on the tablet, it needs to be plugged into the internet using the supplied connector. Plug the USB/Ethernet adaptor into an active Ethernet (Blue Cat5 Computer cable) and the USB port on the upper left hand side of the tablet (Under the lockable flap).



Figure 27 USB Port on the Getac F110



Figure 28 USB / Ethernet Connector

Once logged into the tablet, **Internet Online** wording appears in the lower right hand corner of the screen, indicating the tablet is ready to be sync'ed.

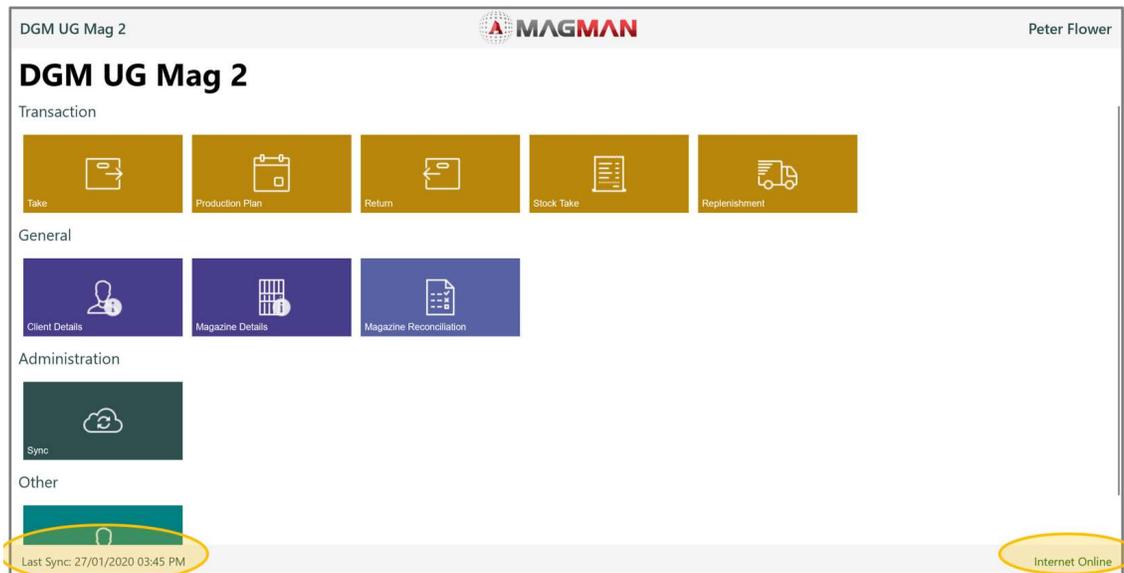


Figure 28 Ensure the tablet “Internet Online” indicator is on prior to sync’ing the tablet

8.4 Sync

Once logged in, tap the “Sync” icon. The sync routine will scroll down the screen.

Check the sync process progresses through to the “Sync Complete”. If not, contact your site Magman Administrator or email help@magman.net.au

8.5 Tablet Keyboard

The keyboard on the tablet should automatically pop up whenever text is required to be entered into the system.

If the keyboard doesn’t automatically pop up, the button on the side of the tablet with three horizontal dots will force the keyboard to appear.



Figure 29. Getac tablet keyboard button

8.6 Web Magazine transactions

If, for any reason the tablet is unserviceable, transactions can be entered directly into the Magman web browser.

9.0 Tablet Transactions

9.1 Take / Return from the Magazine



Figure 30. Magman Tablet Menu

To remove product from the magazine, simple tap on the  icon. The product list will appear. Select the quantity of each item to be removed from the magazine.



Figure 31. Magman Take Screen

Select 

Enter in the **Location** and confirm the Items being removed from the magazine are correct.

Select . The transaction is now recorded in the data base.

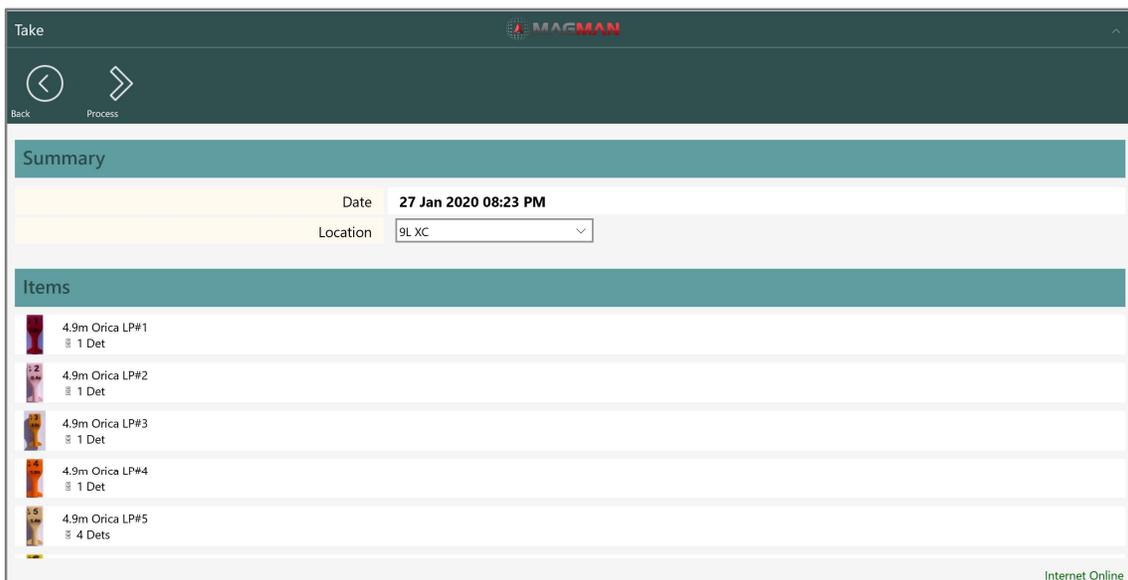


Figure 32. Magman Take Process Screen

The  function is the same in reverse.

9.2 Saved Take

The  is used to store the explosives and detonators for standard development headings. These are set up by the Magman Administrator.

In the example below the 5.5 x 5.5 Decline heading has the detonators and explosives pre-populated. This makes it much quicker for operators to complete a transaction for standard development headings.

Select the development profile and follow the **Take** process.

9.3 Production Plans

The engineers will pre-load each production blast into the Magman web, which is transferred to the tablet when it is Synced.

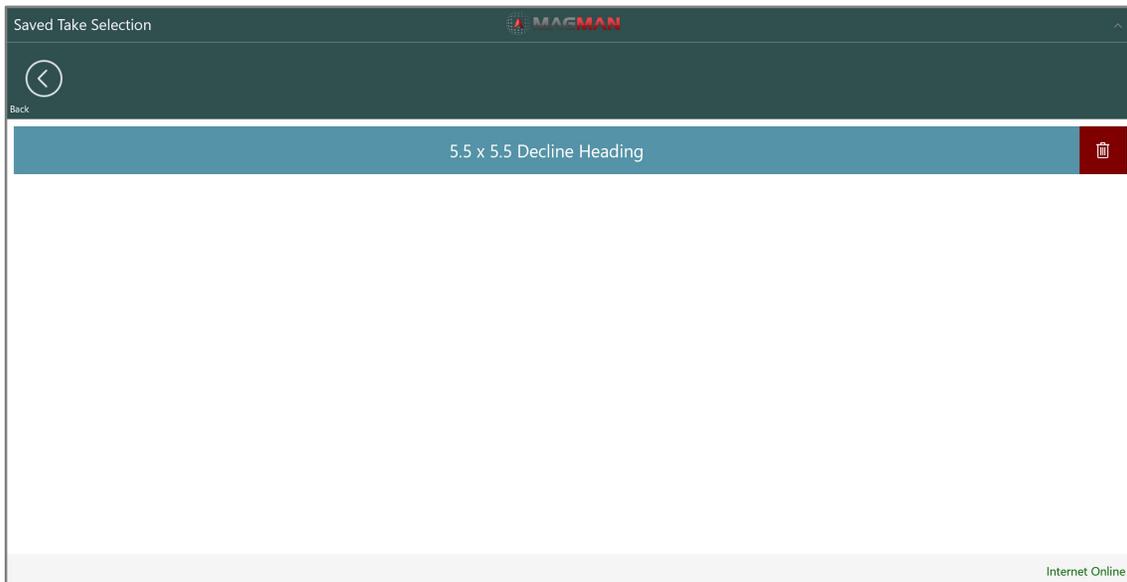


Figure 33. Magman Saved Take

The operator selects the **Production Plan** Icon. They can then select the desire production plan, which has the **Take** screen pre-populated with the required detonators and explosives.

Follow the **Take** process.