



Explosives Inventory Management Presentation

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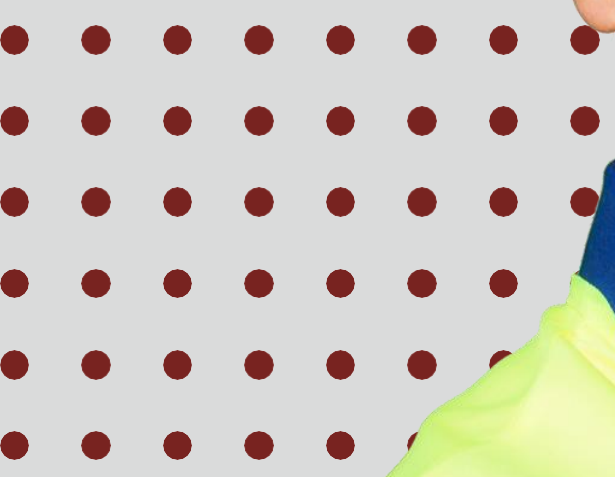
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Thank You**
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OUR COMPANY

Magman are a mining technology and software development company and developers of a tablet based paperless explosive magazine inventory management solution.

The Magman solution makes blast planning, inventory management, stock replenish, reporting, reconciliation and audit compliance easy and is trusted by 30 mine operators globally.

OUR MINING TEAM



Andrew Rouse

CEO

Andrew has over 25 years experience in the mining industry, spanning across predominantly the underground hardrock and open cut coal sectors across both mine owner and contractor organisations.



Chris Allen

GM

Chris is a senior mining engineer with extensive experience in software development, data management and solution architecture. Having worked across contractor and client based mining.



Luke Jackman

SALES

Luke has experience working with Mine operators with a range of software and hardware solutions. He understands the challenges mines face when implementing technology.



Eddy Zhang

SOFTWARE

Eddy is a mining engineer with a wide variety of experience in solving problems for many sites..



Rodney Bedgood

ADVISOR

Rodney is an established mining executive with over twenty years of experience spanning management, operational and technical positions across a variety of commodities including lead, zinc, silver, gold, copper, tin and coal...



THE PROBLEM WITH PAPER



HUMAN ERROR

- Counting mistakes when calculating stock levels
- Ambiguous Handwriting & Misinterpretation of written data.
- Database entry errors.
- Multiple points of failure.
- Wasted/increased admin time.
- Stock re-ordering oversights.

MS DET Magazine Stock Record

Heading: 352 Bstpr

PRODUCT	UNIT	QTY / UNIT	OPENING BALANCE	STOCK OUT	STOCK IN	CLOSING BALANCE	STOCK TAKE DONE (Y/N)
MS DET 18.0m #1	BOX	30	1036	3		1033	
MS DET 18.0m #2	BOX	30	78	1		77	
MS DET 18.0m #3	BOX	30	57			57	
MS DET 18.0m #4	BOX	30	65	5	2	63	
MS DET 18.0m #5	BOX	30	36			36	
MS DET 18.0m #6	BOX	30	41	1	40	40	
MS DET 18.0m #7	BOX	30	23	3		20	
MS DET 18.0m #8	BOX	30	15	1		14	
MS DET 18.0m #9	BOX	30				0	
MS DET 18.0m #10	BOX	30					
MS DET 18.0m #11	BOX	30					
MS DET 18.0m #12	BOX	30					
MS DET 18.0m #13	BOX	30					
MS DET 18.0m #14	BOX	30					
MS DET 18.0m #15	BOX	30					
MS DET 18.0m #16	BOX	30					
MS DET 18.0m #17	BOX	30					
MS DET 18.0m #18	BOX	30					
MS DET 18.0m #19	BOX	30					
MS DET 18.0m #20	BOX	30					
MS DET 18.0m #21	BOX	30					
MS DET 18.0m #22	BOX	30					
MS DET 18.0m #23	BOX	30					
MS DET 18.0m #24	BOX	30					
MS DET 18.0m #25	BOX	30					
MS DET 18.0m #26	BOX	30					
MS DET 18.0m #27	BOX	30					
MS DET 18.0m #28	BOX	30					
MS DET 18.0m #29	BOX	30					
MS DET 18.0m #30	BOX	30					
F-KDN/ETS	BOX						

NAME: John Smith
SIGNATURE: [Signature]
DGSC #:
DATE: 30/6
TIME: 12

INSTRUCTIONS

1. Fill out for every Heading - One per sheet
2. Complete entire sheet correctly (i.e. name, signature, DGSC, Date, Shift)
3. One person only to fill out.
4. When book is finished, return to the Shift Supervisor to receive new book.
5. Any discrepancies are to be reported immediately
6. Leave pages in book and Joleman will remove

REPORTING & RECONCILIATION

- Delayed reporting of stock balances.
- Re-ordering and stock replenish delays.
- Longer shift change over times.
- Communication breakdown.
- Contractor Disputes.

AUDITING & REMEDIATION

- Time consuming Forensic backtracking to identify mistakes/errors in reporting and stock control.
- Production downtime.
- Process accountability tracking.

THE WHY



WA goldminer fined after explosives theft at [redacted] mine

FOR IMMEDIATE RELEASE Monday, August 10, 2020
Two Felons Indicted For Stealing Explosive Materials From Mining Company

Explosive device reported missing at [redacted] mine

Police searching for 200 kg of explosives stolen from business
RCMP has not disclosed the precise type of explosives or where they came from
 Austin Davis
 Published May 05, 2022 • 2 minute read

SBSNews

Govt admits explosives thefts

The Defence Force has confirmed that plastic explosives and thousands of rounds of ammunition have been stolen from the Army, Navy and Air Force since 2001.

UPDATED 22 AUGUST 2013 SHARE  

The Defence Minister Robert Hill confirmed the thefts in answer to a question on notice in Parliament.

But Senator Hill says a precise tally of what has gone missing cannot be established because there are more than 500 managers responsible for the reconciliation of explosives.

Posted Fri 28 Aug 2015 at 8:16am, updated Fri 28 Aug 2015 at 8:35am

Government of Western Australia
 Department of Mines, Industry Regulation and Safety
 Resources Safety

Dangerous Goods Safety Bulletin No. 0417

Security of explosives

Background
 Explosives have recently been found in the possession of members of the public not authorised to possess them. This has raised concerns with the Department of Mines, Industry Regulation and Safety in regards to explosives safety and security.

Industries engaged in the possession and use of explosives are reminded of the need to have appropriate controls and procedures in place to ensure explosives are secure from sabotage, theft, unexplained loss and that there is no unauthorised access.

The requirements for the safe storage and security of explosives are outlined in the Dangerous Goods Safety (Explosives) Regulations 2007, the Australian Code for the Transport of Explosives by Road and Rail, 3rd Edition (AEC3) and Australian Standard 2187 Explosives – Storage, transport and use.

Note: Recently the Western Australian Police and the Department investigated the theft of explosives from a mine site. Despite site records showing discrepancies between the recorded quantities and the actual quantities of explosives stored, these discrepancies were not investigated by the company. The root cause of the theft of the explosives was the illegal conduct of a trusted employee.

Security	
Incident Details	Action / Outcomes
Explosives Discrepancy	
Unreconciled Electronic Detonator.	Counts did not reconcile. Searches conducted and internal procedure followed. Evidence gathered and undertaking iCAM investigation.

Security	
Incident Details	Action / Outcomes
Explosives discrepancy	
At the end of dayshift the Shotfirer could not account for three Boosters at a surface mine overburden shot.	An investigation commenced and two days later the three boosters were identified through further reconciliation checks.
Following the loading of a shot at the open cut it was identified that an electronic booster and detonator were missing following the reconciliation before firing could commence. Shot was not fired.	Identified site need to account for actual use each day and not just reconcile at the end of loading a shot, in this case 3 days later. Matter being further investigated.

THE SOLUTION



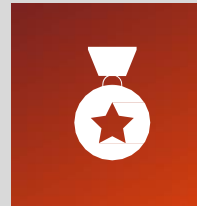
Key Solution Points

- Magaman is a tablet & web based stock management system for Explosives & Detonator Magazines.
- Specifically developed for mining to be used by operators, supervisors and administrators
- Eliminates all calculations
- Records are auditable & backed up to the web
- Automatic notification of discrepancies Compliant with legislations - regularly audited by the Mining Regulators

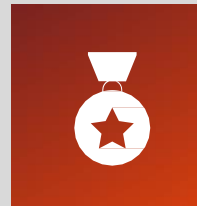
Operators & Interface

- Simple & graphical interface on the tablet
- Customisable configuration
- Each operator has a individual PIN Check explosives out to a specific location
- Can undertake stocktakes of the magazine
- Can pre-load stope charge plans or development patterns

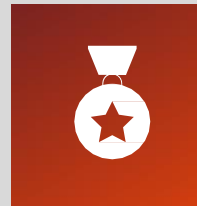
THE TABLET



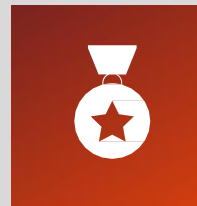
**Getac F110 Rugged ATEX
(Intrinsically Safe)**



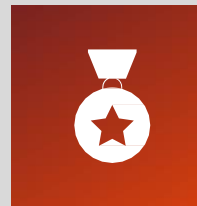
**3 year bumper to bumper
warranty
(Inc. accidental damage)**



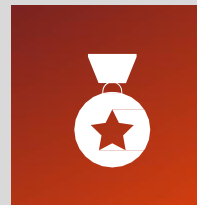
**Built to survive underground
conditions**



**NATA test report for
electromagnet emissions**



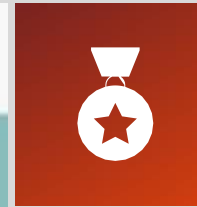
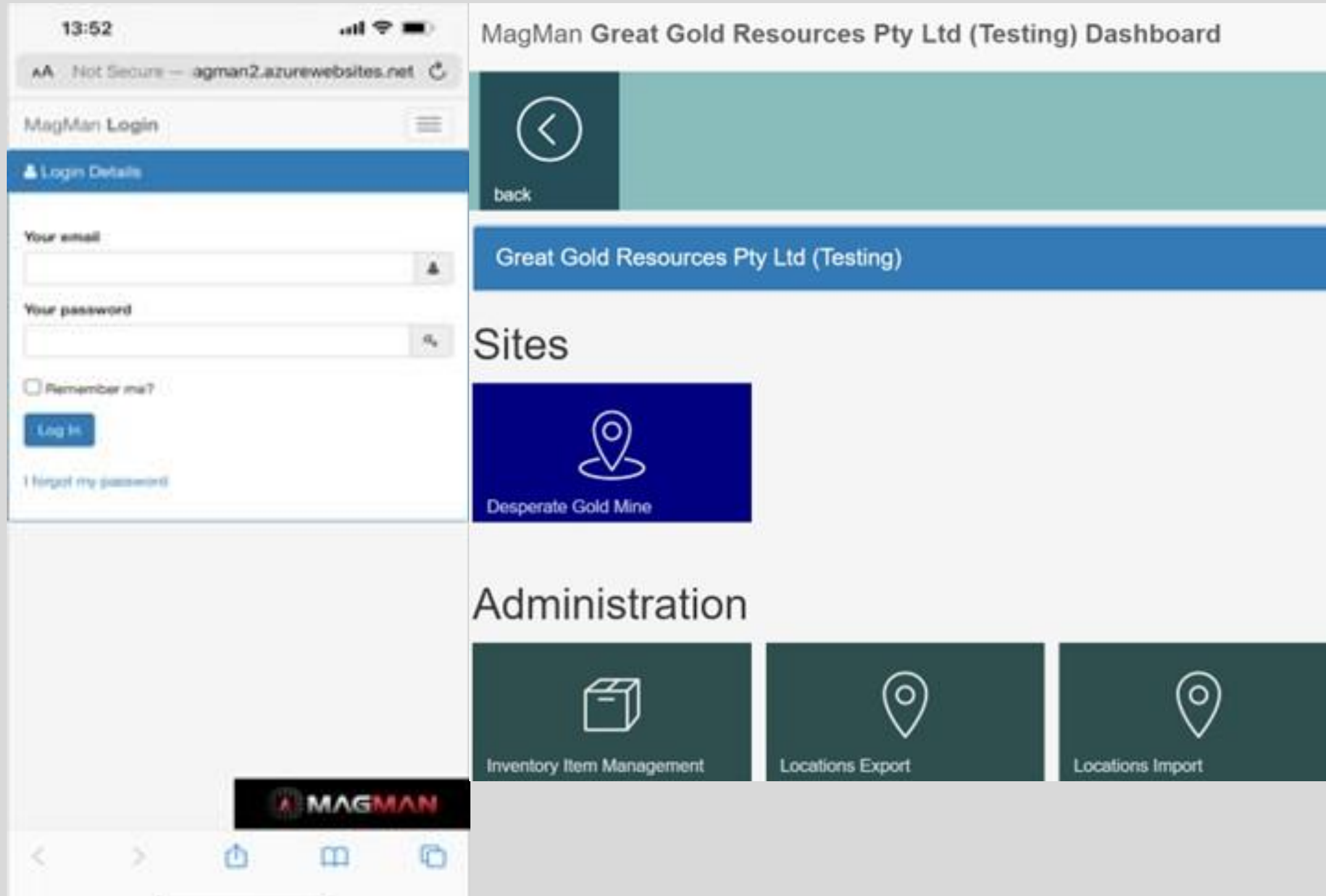
**Located in lock box at Mag or
carried by charge up operators
(with mag keys)**



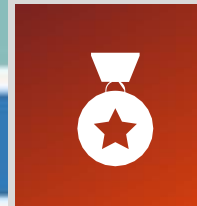
**Transactions backed up to the
web**



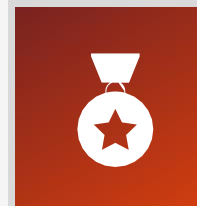
WEB PORTAL



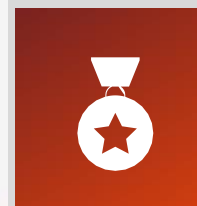
Data is backed up to the web server (Azure)



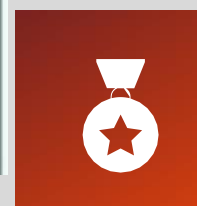
Admins can log in from any device and generate reports including usage reports & stock levels



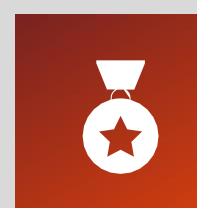
Ability to complete transactions through the web



Automated email alerts, re-order forecasting



Manage stock items, operators access, email alerts



Can deliver feed into ERP systems

SYSTEM SETUP & TECHNICAL DATA

Magman system is delivered with the site electronic magazine setup with users and inventory, tablet and customer interface.

Initial Magman setup package contains:

- Getac F110 tablet
- Option of wifi dongle or ethernet adaptor Test reports
- Web access
- Site integration and online training sessions
- Ongoing support

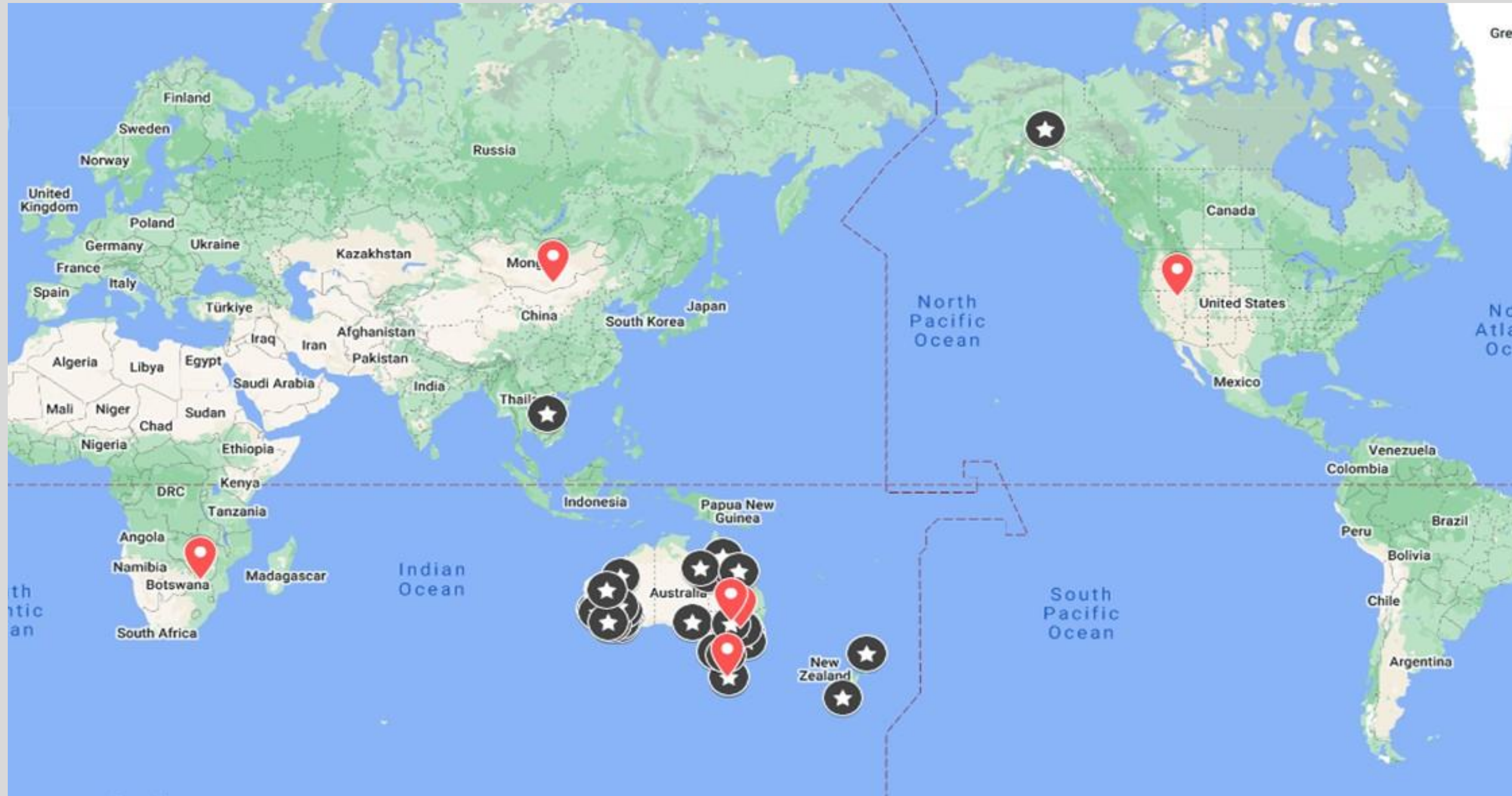
Technical Data

- Operates on Windows 10 platform
- The Database is a Microsoft Azure SQL database
- Tablet Language : C#.netcore, Universal Windows Program
- Web Language : Type.script (Java Script) : asp.net.core (Backend web)
- SSL for Azure website



OUR CUSTOMERS & MARKET PRESENCE

- Over 60 sites deployed and using the Magman solution globally
- 10+ years operation & development
- No direct market competitors except for paper driven inventory management process.



★ Established Markets 📍 Emerging Markets

GET CONNECTED WITH US



info@magman.net.au



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THANKS FOR YOUR
ATTENTION
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