

November 2020

A guide to picking the right IVMS solution for you

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Introduction

Ever felt confused about which IVMS solution to get for your business? The compliance needs of the mining and gas industries are immense and there is no ultimate solution that will suit everyone's requirements. There are however reoccurring factors that drive the final decision of which IVMS solution a customer will need.

These factors are -

- **Affordability** - For organisations that are concerned about their budget and want to get the most value out of their devices.
- **Functionality** - For organisations that want to ensure that they are meeting the compliance requirements of the mines.
- **Connectivity** - For organisations that value the safety of their workers and their assets, getting a message out during an emergency is critical.
- **Portability** - For organisations that need to stay compliant but do not want to or cannot hardwire IVMS into their vehicles.
- **Flexibility** - For contractors, who visit different sites with different requirements, the versatility of the unit is an essential criteria.



Affordable IVMS

Digicore's cost efficient IVMS solution offers a tremendous amount of function for its price. It will provide nearly all of the functions needed to meet basic IVMS requirements for around half the cost of our full featured offering.

Functions –

- Utilise the Driver ID function by choosing between ibutton and RFID.
- Cellular 4G Cat M1 telecommunications.
- Seatbelt pickup and ignition pickup.
- Panic Button.
- Monitor and report on harsh events such as braking, cornering, acceleration, and rollovers.
- Establish speed zones within a geo-zone with in-cab alerts.
- Up to thirty geo-zones can be stored on a single unit.
- Journey management and fatigue management with in-cab warnings and enforcement.

When will you need Digicore's advanced mine spec IVMS unit?

- If you need to use an existing site card with its own protocol as Driver ID.
- If you need to communicate over iridium.
- If you need to utilise the Bluetooth 5.0 gateway.
- If you need to pick up more than 2 elements from the vehicle



Functionality based IVMS

When it comes to functionality-based requirements, the solution will depend on your particular use case scenario or the site that you are on.

Digicore offers expert knowledge of what is required for IVMS on today's mine sites. However, IVMS can sometimes be subject to change. For example, an incident on the site can result in the re-evaluation of factors to be monitored. For this reason alone, Digicore suggests a full mine spec IVMS solution. It's flexibility ensures that if the requirements of the site change, you will be able to adapt without changing the entire system.

However, if you are looking at IVMS for your site, an affordable IVMS solution may well provide all you need while saving you on the initial hardware outlay; especially if you have a large fleet to fit out.

For each use cases, you can be rest-assured that Digicore has the right solution at the best price with the fairest operational terms.



Connectivity based IVMS

Patchy Coverage

When a client is working in a remote location, there is the possibility that the cellular coverage in the area may be an concern. In instances where the site that you are working on has patchy coverage and you are consistently moving in and out of cellular coverage there are a few things to consider.

What is the IVMS being used for?

Case 1

If there are no immediate safety aspects to the use case of the IVMS, you will be fine to utilise a standard IVMS unit. This is possible as all our units record all the trip data and store it on the unit itself until cellular coverage is established. When in coverage all the data collected will be uploaded and will not affect your data collection process.

Case 2

If there are safety aspects to the use case of the IVMS and you have patchy coverage then you may need to consider our Telstra Cel-Fi Go addition, which will boost your ability to connect to the cellular network without having to resort to costly iridium communications.



Connectivity based IVMS

No Cellular Coverage

If you are truly remote and only come into coverage once a month or never at all, then the only possibility is to add an iridium edge head to your mine spec IVMS unit.

This adds an added cost both for the unit and for the monthly subscription fee, and it will help you to see where your vehicles are and for them to get a message out in the case of an emergency or accident. Digicore supplies some unique reports in this instance.

Given the cost of satellite communications or iridium communications, the messages are limited. This means that the reports need to be designed differently to accommodate for the different reporting rate. We provide a comprehensive picture of what is happening with the vehicles when out of coverage but the reports will only give a general picture of where a vehicle went during any day. Once the units come back into coverage, all the second by second movement data is then sent through so full report can be re-run to ensure that everything was reported on when out of coverage. This data may also be important for investigating crashes, accidents and other incidents that occurred out of coverage.





Portable IVMS

Portable IVMS is an area in which Digicore truly excels beyond our competition. It is most suitable for -

- Contractors, who will be on-site for a brief period but must have IVMS to enter the site
- Site visitors
- Rental vehicles being rented to complete certain work on a site, in this instance installing an IVMS unit is not always possible as they do not own the vehicle
- People using their vehicles on site that do not wish to have something permanently installed into their vehicle

Our tailored suite of portable IVMS solutions is the most advanced solutions available. We have multiple designs that will help you to meet site requirements without changing vehicle components and interfering with circuitry.





Flexible IVMS

There are some use cases in which a contractor needs something dynamic, something adaptable as they visit different sites in different locations with different specifications. Digicore's mine spec IVMS unit is the ultimate answer in this case.

With simple plug-and-play iridium upgradability, Bluetooth 5.0 gateway to add new pick-ups and inputs wirelessly, RS232 with Weigand support for specific site card readers, and a plethora of input, output, and pickup options our mine spec IVMS solution is ready for any application you can throw at it. Combine this with our no-lock-in contracts policy and we do have all your bases covered.





Summary

Digicore are the complete package when it comes to providing you the best solution for your IVMS requirements. We have the knowledge, ability, hardware, and software to fulfil your every requirement and will do so without locking you into a long-term contract or charging you an unreasonable fee. We know the industry, what is needed and can guide you to the right unit to ensure you still are compliant on any site you might be entering without you needing to pay for functions you will never use.

We have a tailored reporting system that we can adapt to supply you with the reports you need as opposed to what is available on the system and can also integrate multiple styles of device all onto one platform. If for instance you also wish to track assets and/or personnel this can be provided on the same interface that your IVMS units report to. Digicore truly are the one stop shop for all your GPS tracking needs.



Email us for more info!

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