VersaCloud M2M Overview

VersaCloud M2M from Divelbiss is a complete, seamless end to end, machine to machine solution. VersaCloud solutions cover each area needed for remote control and/or monitoring of machinery and equipment, regardless of where the equipment is located; from the factory floor to remote sites. VersaCloud M2M solutions include interface hardware (PLCs and Gateways), communications links (Ethernet, WI-FI and cellular data including cellular data coverage plans) and an exclusive cloud portal with drag and drop features to allow you to customize and personalize multiple dashboard pages for your exact needs.

VersaCloud M2M solutions are ideal for factory floor equipment monitoring and data gathering, remote location control, data gathering and on-event alerts and for remote control and monitoring of construction equipment, mobile equipment or marine applications. VersaCloud hardware supports multiple networks for complete communications to SAE J1939 network systems such as engines and NMEA 2000 communications for marine networks.

If you need to monitor it, control it or act upon conditions from it, VersaCloud has the solution. VersaCloud M2M enabled Programmable Logic Controllers and Gateways program using Divelbiss EZ LADDER Toolkit and interface to the VersaCloud M2M Cloud using versatile, but easy to use function blocks within the ladder diagram.

VersaCloud M2M enabled Programmable Logic Controllers

VersaCloud enabled Programmable Logic Controllers (PLCs) are powerful and versatile programmable controllers that support ladder diagram, function block and structured text programming using Divelbiss EZ LADDER Toolkit. These controllers provide powerful features including: Digital I/O, Analog I/O, High Speed Counting and Encoder interfaces, Serial Communications (Modbus or custom interface) over RS232 and RS485 and Network Communications including Modbus TCP over Ethernet, SAE J1939 and NMEA 2000.

VersaCloud enabled controllers communicate to and from your exclusive cloud portal using wired Ethernet, WI-FI or Cellular Data (nationwide cellular data coverage provided by Divelbiss Corporation). The controllers update and store the data on the cloud and can be controlled from the cloud portal. Controller software can be updated remotely via the cloud portal.

VersaCloud M2M enabled Gateways

VersaCloud enabled gateways provide an interface from other controllers and devices using standard communications and networks including Modbus TCP over Ethernet, Modbus Master/Slave over serial and CAN networks including SAEJ1939 and NMEA 2000.

VersaCloud enabled gateways communicate to and from your exclusive cloud portal using wired Ethernet, WI-FI or Cellular Data (nationwide cellular data coverage provided by Divelbiss Corporation). The gateways update and store the data on the cloud and can receive data from the cloud portal.

VersaCloud M2M Exclusive Cloud Portals & Dashboards

VersaCloud Cloud and Cloud Portals are the central hub for activity between the actual equipment (controller or gateway) and the user. Each portal account is exclusive, personalized and it provides secure log-in credentials with multiple user login and multiple account level options. Each VersaCloud portal may contain multiple dashboard pages as needed and each dashboard is customizable to the user’s specific needs using drag and drop widgets. Dashboards may be public or private as required and may be accessed by any Internet device such as a computer, tablet or smartphone.

The VersaCloud Portals allow for monitoring of stored data or current control parameters as needed. Data logs may be exported for off-portal mining. Custom API interfaces are available for direct link to data and parameters without using the portal’s dashboard web interface. The portal may be configured to send alerts via text message (SMS) or email to multiple recipients based on actual events received by controllers or gateways; such as testing maintenance personnel if a fault is detected from remotely connected equipment via VersaCloud enabled hardware.

Triggered manually or controlled automatically, VersaCloud Portals also allow for remote programming updates to VersaCloud enabled controllers and gateways.

VersaCloud provides the ability to track mobile equipment. Controllers with GPS features can report and map the location of mobile equipment, which is ideal for mobile equipment that is leased or rented. The portal would even allow the possibility of disabling the equipment as needed for situations such as failure of payment, etc.

1 Cellular data plans require a contract and are subject to monthly fees based on usage.
2 Cloud & Cloud Portals require a contract and are subject to monthly and additional fees based on specific usage.
VersaCloud M2M - A COMPLETE MACHINE TO MACHINE SOLUTION FROM DIVEBIBISS

- Monitor & Control Processes, Equipment, Sensors and Network Devices
- Communications and Control Interface via Wired Ethernet, Wi-Fi and Cellular Data Coverage
- Customized, Exclusive Cloud Portal Web Interface and API Solutions for Data Trending, Monitoring and Control

**Programs Using:**
- Ladder Diagram
- Function Block
- Structured Text

**VersaCloud M2M - A COMPLETE MACHINE TO MACHINE SOLUTION FROM DIVEBIBISS**

- Analog I/O
- Digital I/O
- Encoders
- Serial (RS232, RS485)
- Network (SAE J1939, NMEA 2000, MODBUS)

**Your Exclusive Cloud Portal**
- Multiple Dash Boards
- User Configurable
- Drag & Drop Dashboard Widgets
- Email / Text on Event
- View Control Parameters Live
- Control Equipment via Dashboard
- Review & Export Logged Data
- Update Control Programs Remotely
- Configurable Private or Public
- Multiple User Account Levels
- Access Cloud Portal Via Any Device
- API Access for Direct Data to Servers

**VersaCloud M2M - A COMPLETE MACHINE TO MACHINE SOLUTION FROM DIVEBIBISS**

- Construction
- Remote Site
- Equipment / Machinery
- Mobile
- Marine
- GPS

**VersaCloud M2M - A COMPLETE MACHINE TO MACHINE SOLUTION FROM DIVEBIBISS**

- Wi-Fi Cellular Ethernet
- Ethernet
- Secured Private Network
- Internet to Devices
- Customized Cloud Portal & Data Center