

VersaCloud M2M+IoT Overview

VersaCloud M2M+IoT from Divelbiss is a machine to machine (Telematics) and IoT (Internet of Things) solution platform. 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+IoT solutions include interface hardware (PLCs and Gateways), communications links (Ethernet, WI-FI, cellular data (including cellular data coverage plans) and cloud data and portal solutions that are customizable. Solutions include Microsoft Azure, IoT Hub and IoT Central's features to design and use simple cloud portals or more complex custom solutions either designed by you or Divelbiss using Microsoft Azure and IoT Hub as well as other cloud platforms such as Exosite Murano.

VersaCloud M2M+IoT 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. Divelbiss IoT enabled hardware supports multiple networks for complete communications to SAE J1939 network systems such as engines and NMEA 2000 communications for marine networks. The controllers and gateways support a local web server that can be accessed via Ethernet and Wi-Fi.

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

IoT enabled Programmable Logic Controllers

VersaCloud M2M+IoT 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. Controllers also support a local web server that can be accessed via Wi-Fi or Ethernet.



VersaCloud M2M+IoT enabled controllers communicate to and from your VersaCloud M2M+IoT solution using wired Ethernet, WI-FI or Cellular Data (nationwide cellular data coverage¹ provided by Divelbiss Corporation is available). The controllers update and store the data on the VersaCloud M2M+IoT cloud solution and can be controlled from the cloud portal².

IoT enabled Gateways

VersaCloud M2M+IoT 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. Controllers also support a local web server that can be accessed via Wi-Fi or Ethernet.



VersaCloud M2M+IoT enabled gateways communicate to and from your VersaCloud M2M+IoT cloud portal solution using wired Ethernet, WI-FI or Cellular Data (nationwide cellular data coverage¹ provided by Divelbiss Corporation is available). The gateways update and store the data on the VersaCloud M2M+IoT cloud² and can receive data from the cloud portal².

VersaCloud M2M+IoT Exclusive Cloud Portal Solutions

VersaCloud M2M+IoT Solutions and Portals² are the central hub for activity between the actual equipment (controller or gateway) and the user. Microsoft Azure IoT Hub with IoT Central solutions require unique user logins and can support multiple devices (gateways or controllers). Using the IoT Central features, you can create a dashboard to view, graph and interact with your devices. Dashboards may be accessed by any internet device such as a computer, tablet or smart-phone. Using Microsoft Azure IoT Hub or Exosite Murano, a completely custom branded site can be developed by you or Divelbiss to meet your exact data, device and interaction needs.



The VersaCloud M2M+IoT Portals Solutions² allow for monitoring of stored data or current control parameters as needed. Portals 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 texting maintenance personnel if a fault is detected from remotely connected equipment via VersaCloud enabled hardware.

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.

¹ Cellular data plans require a contract and are subject to monthly fees based on usage.

² Cloud & Cloud Portals by 3rd party cloud solution platforms and require registration with them. Billing from 3rd party may apply based on platform selected and number of users and devices.

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MACHINE TO MACHINE AND IoT SOLUTIONS

INDUSTRIAL IoT CLOUD SOLUTIONS ▶ IoT PORTALS ▶ CUSTOM IoT SOLUTIONS

IoT INDUSTRIAL CONTROLLERS ▶ IoT GATEWAYS ▶ CUSTOM IoT ELECTRONICS

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VersaCloud M2M+IoT - MACHINE TO MACHINE & IoT SOLUTIONS FROM DIVELBISS

MONITOR & CONTROL PROCESSES,
EQUIPMENT, SENSORS AND
NETWORK DEVICES

COMMUNICATIONS AND CONTROL INTERFACE VIA WIRED
ETHERNET, WI-FI AND CELLULAR DATA COVERAGE
LOCAL COMMUNICATIONS VIA WI-FI, ETHERNET AND WEBSERVER

CUSTOMIZED, EXCLUSIVE CLOUD SOLUTION / PORTAL
WEB INTERFACE AND API SOLUTIONS FOR DATA
TRENDING, MONITORING AND CONTROL

