

BATTERY FORMATION MANAGEMENT

uConnect (GM-100)



ENGINEERING
SOLUTIONS | SERVICES

Description

Battery formation is an important phase in battery manufacturing and has a direct impact on the quality of the lead acid batteries.

For Battery Manufacturers, formation process includes various formative stages to be followed and it is also important to measure various readings accurately from time to time. Failure to comply with the defined process, affects the quality of the finished product (battery). Utthunga has come up with an innovative solution that includes custom built field device (GM-100), necessary reading attachments and integration into an IIoT platform. We have various battery formation types that can be custom designed to meet the customer's requirements.

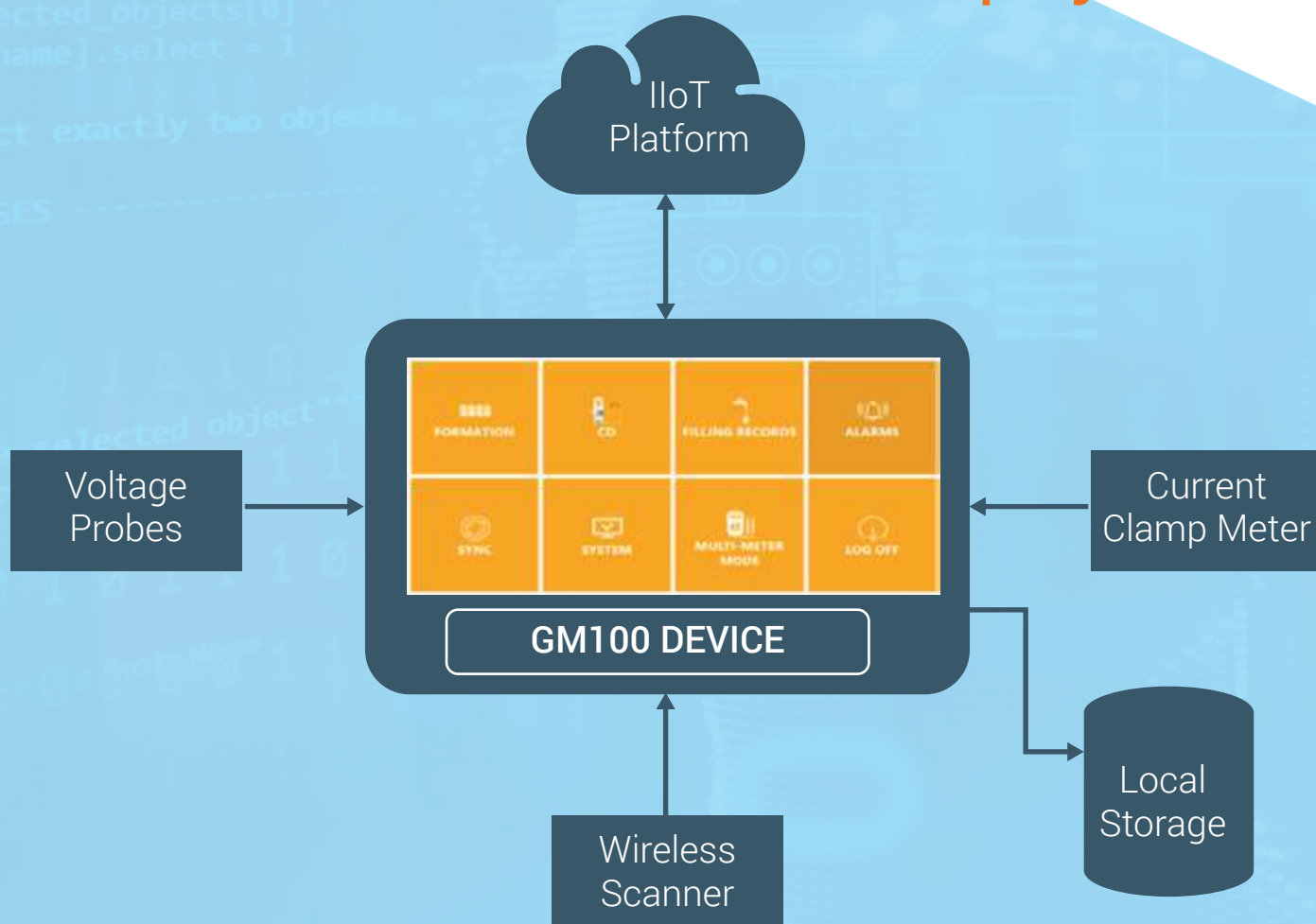
Our Solution

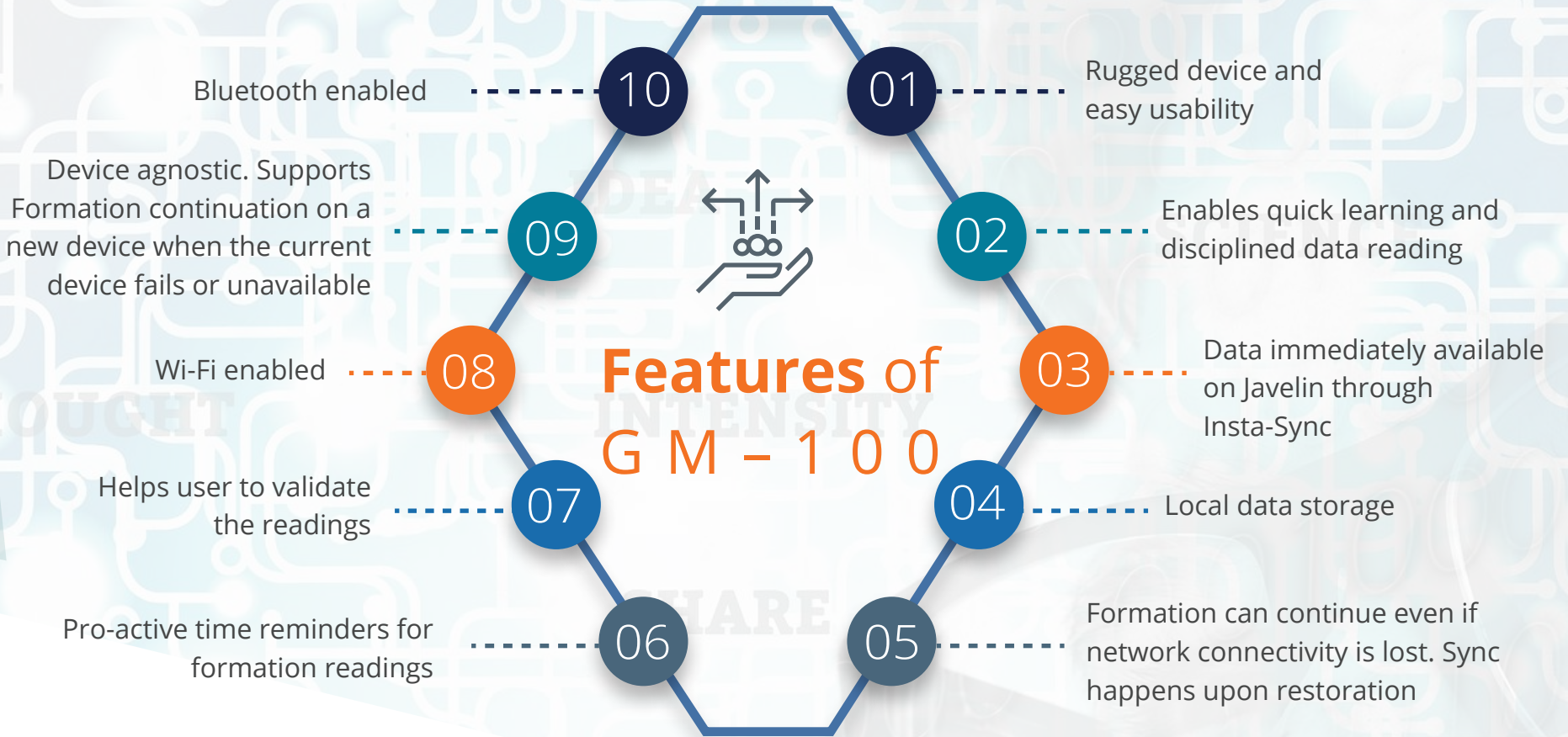
GM-100 field device and Javelin IIoT application are two of our important products in battery formation solution. GM-100 consists of a Windows Tablet in a safe casing with ports for connecting current and voltage meters. Javelin IIoT application has a dashboard with formation stage summary, analytics and provides necessary reports to download.

Key benefits

- ▶ Efficient utilization of the workforce thereby improving productivity
- ▶ Paperless process and timely availability of data
- ▶ Improved data integrity
- ▶ Real-time view of bay availability
- ▶ Real-time view of processing stages
- ▶ Features like alarms, audio and visual indications ensure operation's reliability
- ▶ Integrated web portal solution provides data analytics and report generation
- ▶ Real-time tracking and historical tracking of the formation process
- ▶ Enhanced security
- ▶ Reduced human errors
- ▶ Use of technology providing competitive edge

Deployment Diagram





Features of Javelin Application



Dashboard:

The formation area information is available instantly in terms of available banks, circuits



Alarm Generation:

Alarms can be monitored from a central location



Detailed Data:

The reading time is recorded to the seconds level



Accuracy of Data:

Data sanctity is strictly maintained as the probes are being integrated with the device



Formation Reports:

Detailed reports of all formation data is available



Formation Log Sheet:

Log Sheet can be generated in the required format



Analytics:

Trends on failures, usage and other parameters



User management:

User and Role management can be done centrally



Device Management:

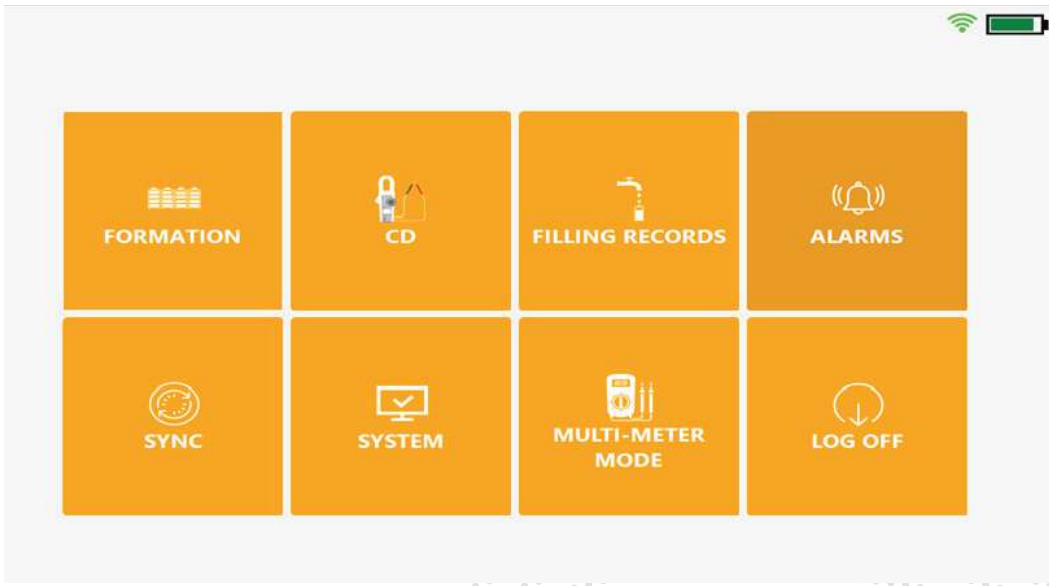
GM-100 devices can be managed centrally



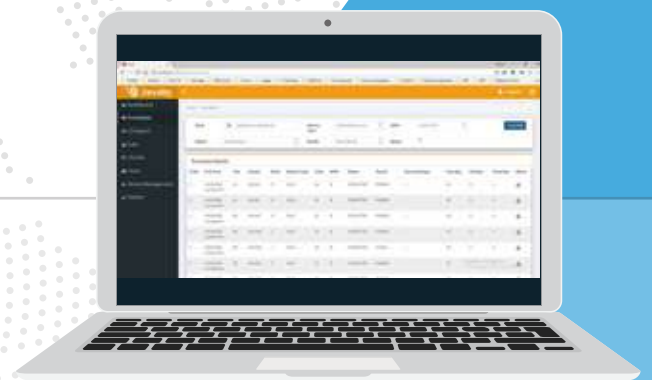
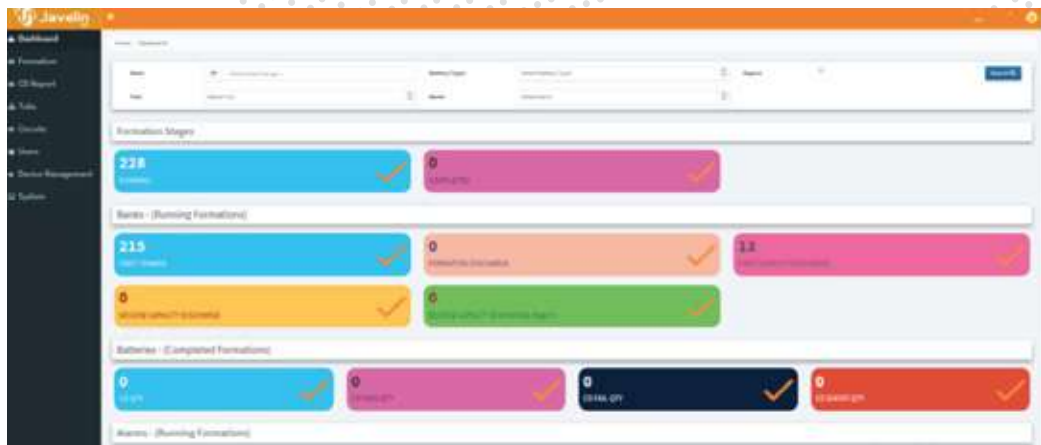
Formation Configuration:

Formation aspects such as banks, tubs, circuits, models, barcodes can be configured for your process

User Interface



Dashboard



For more information on how our Customers are using Battery Formation Solution and driving productivity
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