



**Operations Software
Suite (OSS)**

**Making the Digital Oil
Field a Reality**

September 11, 2020

Who is FreeWave?

Low-power, long-range IIoT connectivity,
now with an intelligent edge.



27 Years

providing M2M
wireless for data
transfer and
command/control



3,000+

customers with
deployments
across 32+
countries



Long-Range

leader in reliably
connecting
challenging RF
environments



Designed, manufactured and tested **in the USA**

FREEWAVE

EDGE — EVOLVED.

Full offerings for industrial



Edge Connectivity



Edge Computing



Edge Sensing



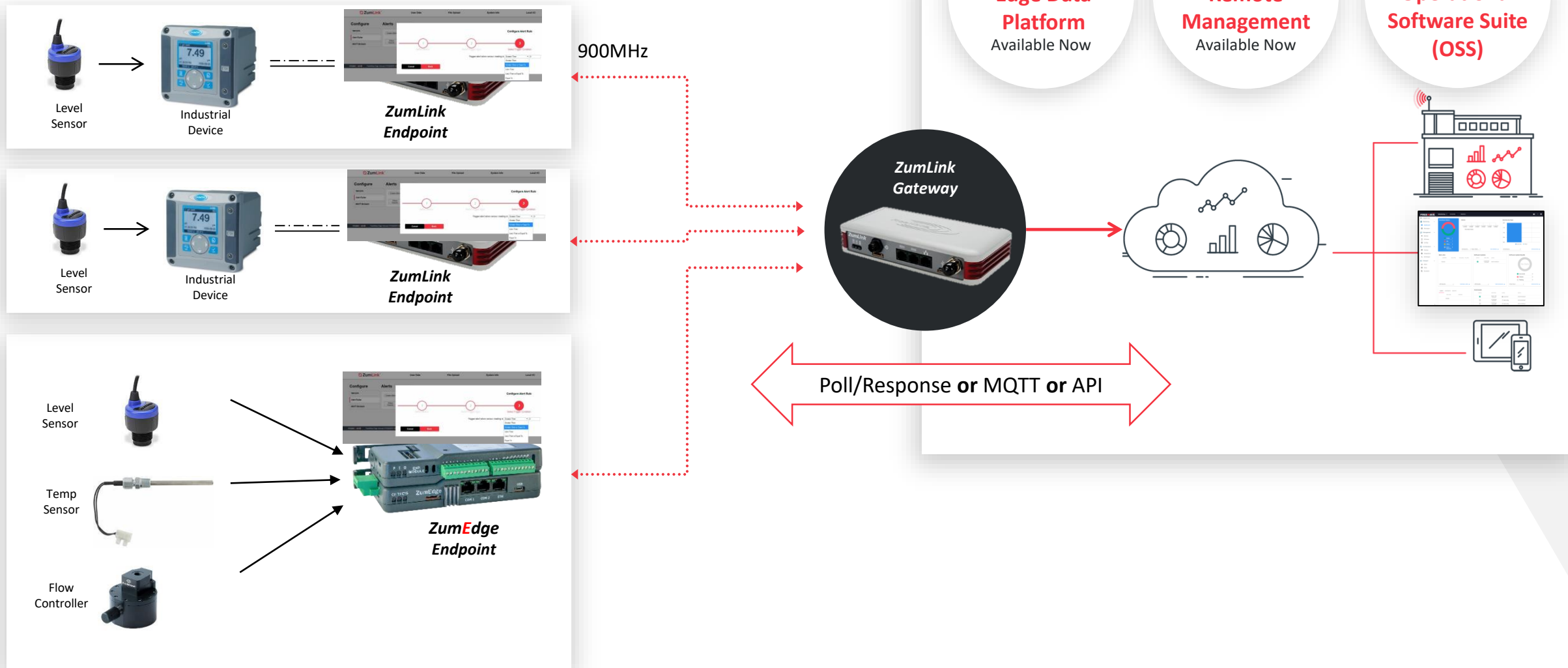
Edge Software



Enterprise Software

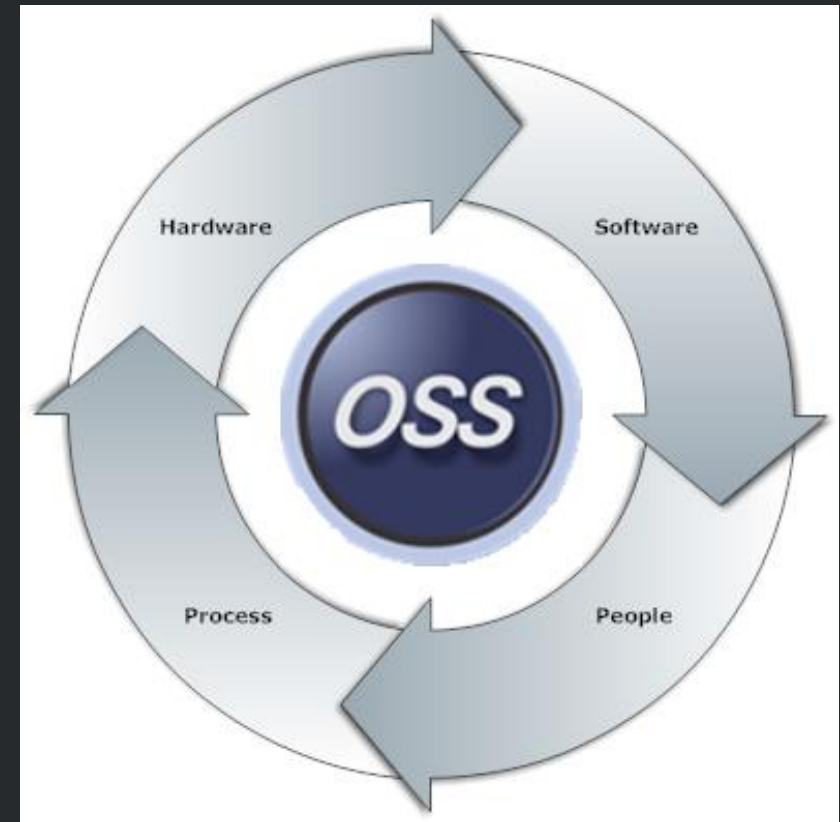
ZumLink and ZumEdge –

Edge Data HW/SW Platform

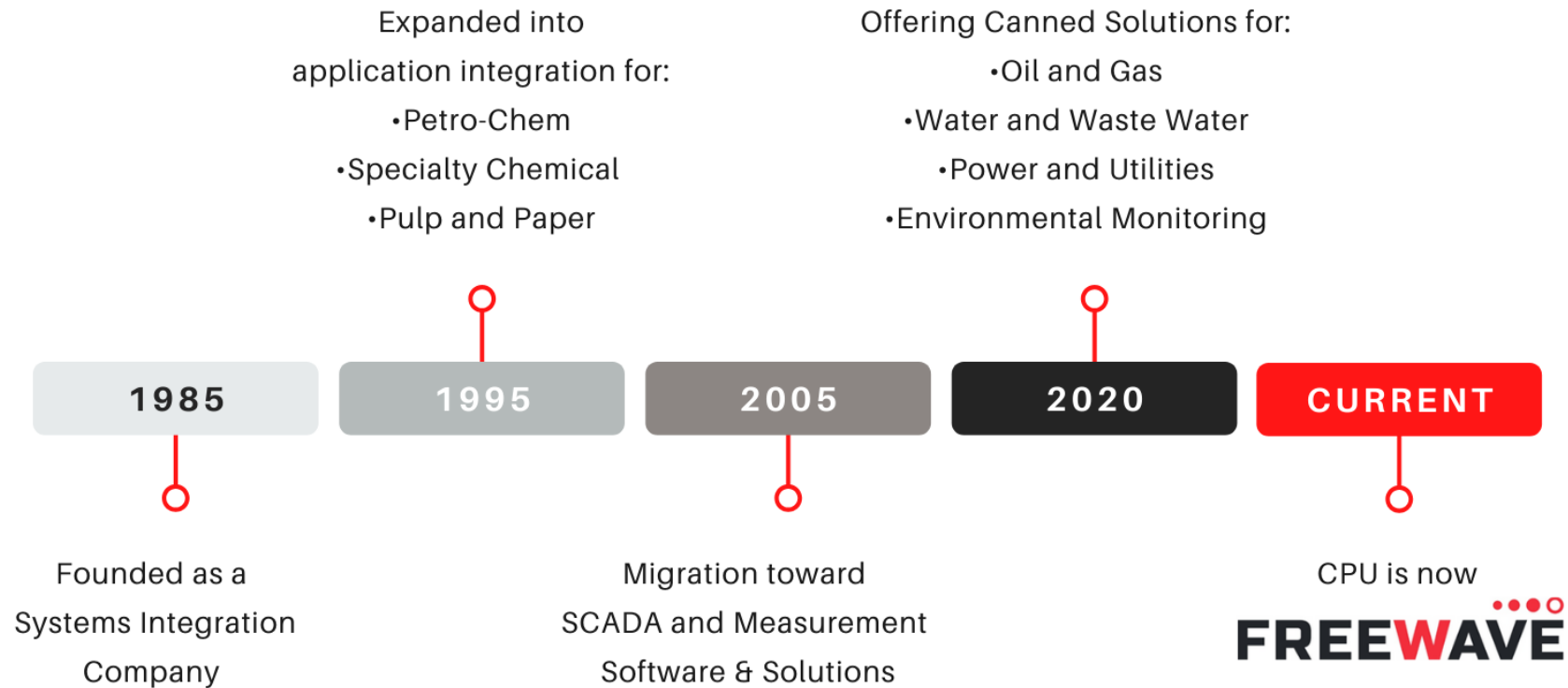


Agenda

- Introductions,
- What is FREEWAVE OSS,
- FreeWave Digital Oil Field
- Customer Examples
- Next Steps and Questions



CPU Background



Company We Keep

Oil & Gas



Water/WW/Environmental



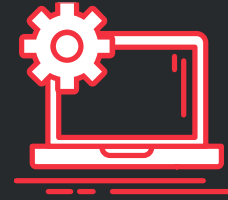
Gas-Power/Utilities



Operations Software Suite (OSS)

What is OSS?

- A fully integrated software suite for any operational need
- A complete Information System
- Collect, historize, visualize and analyze and report on the information
- Fills gaps where other solutions fall short
- Full SCADA and Measurement solutions
- Templated solutions for each Industry



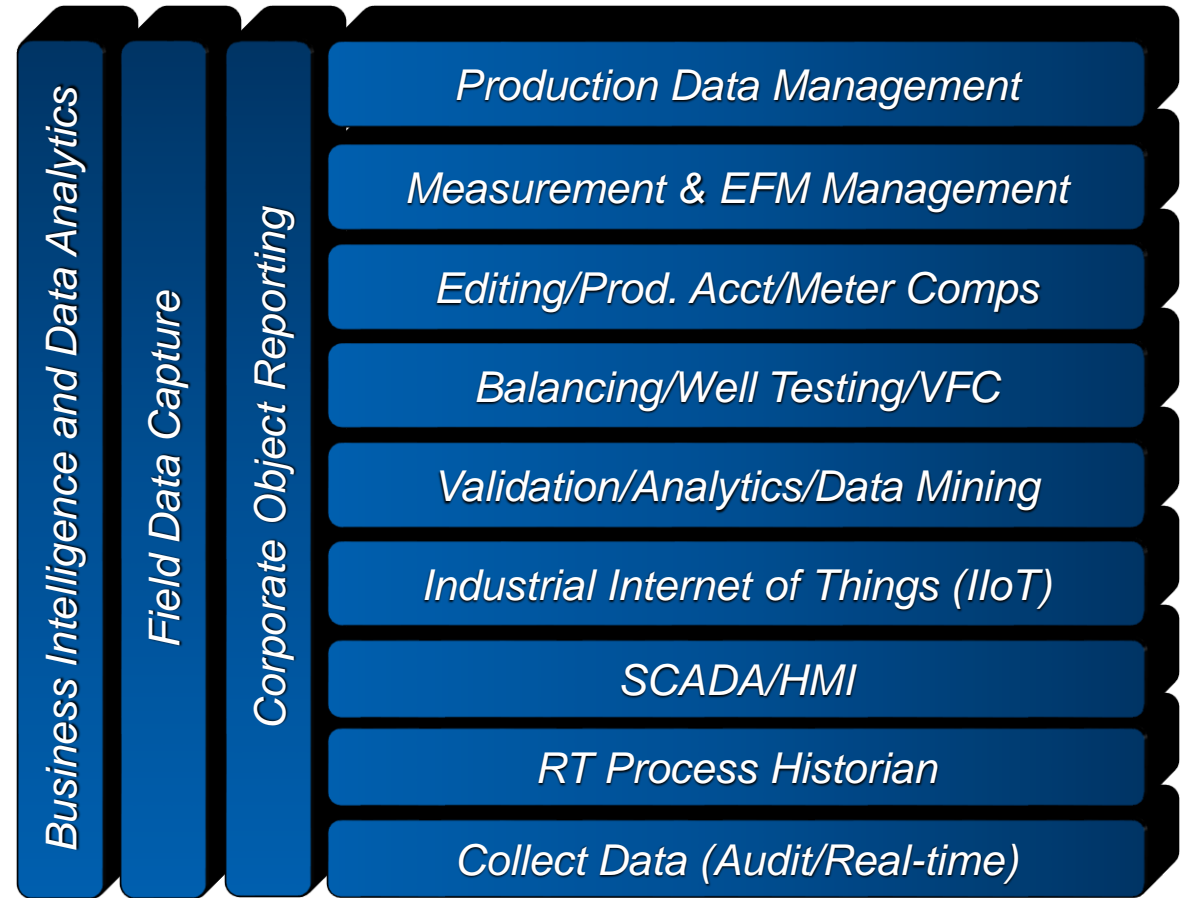
Building real-time information systems

- **Improved** overall service reliability
- **Enhanced** detection and outage prevention
- **Reduction** in outage downtime
- **Faster** repairs and more accurate service restoration estimates
- **Reduce Operational Costs** through increased efficiencies

Operations Software Suite (OSS) Value Proposition

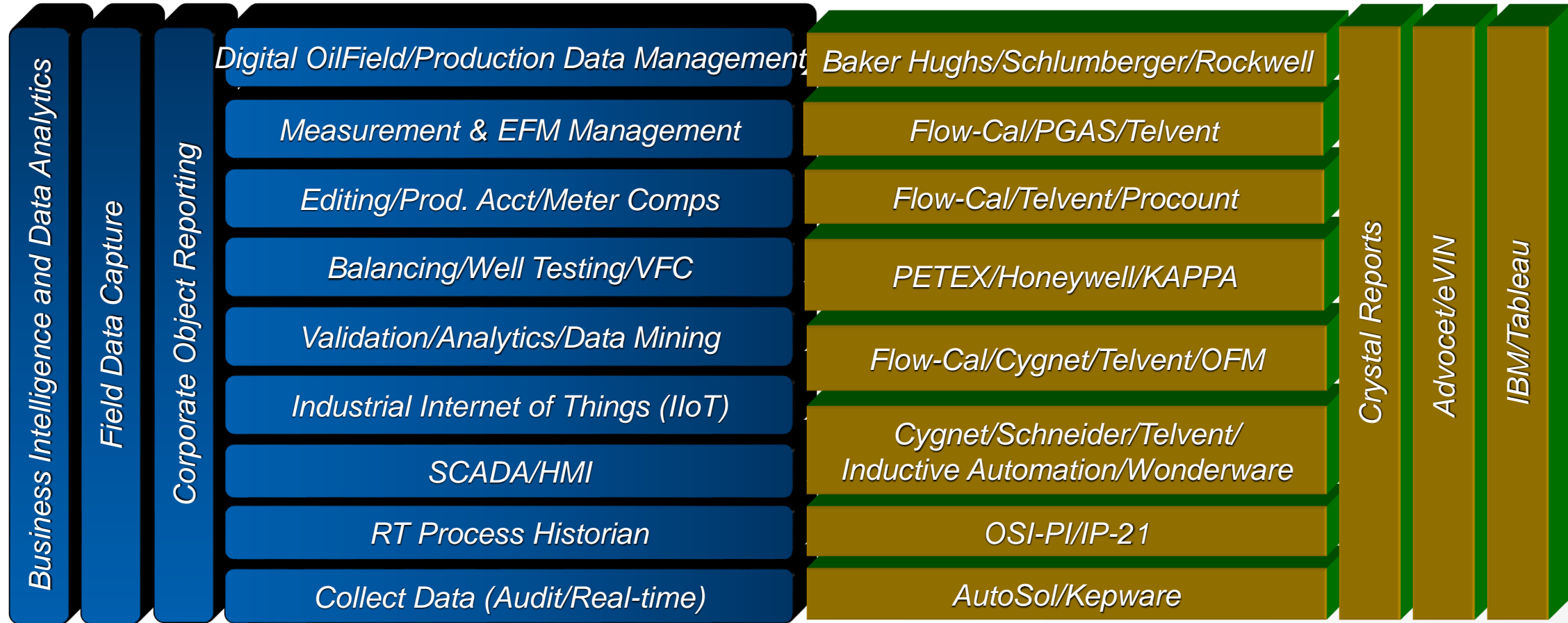
Control Room to Boardroom

- One vendor for all Operation Software Needs
- Fixes “Silos of information” problem
- Obtain data from any device or any system
- Templated configuration for efficient configuration
- All your information, anytime – mobile or desktop
- Alerts as required – emails, text, voice
- Can fill gaps in current solution or replace.



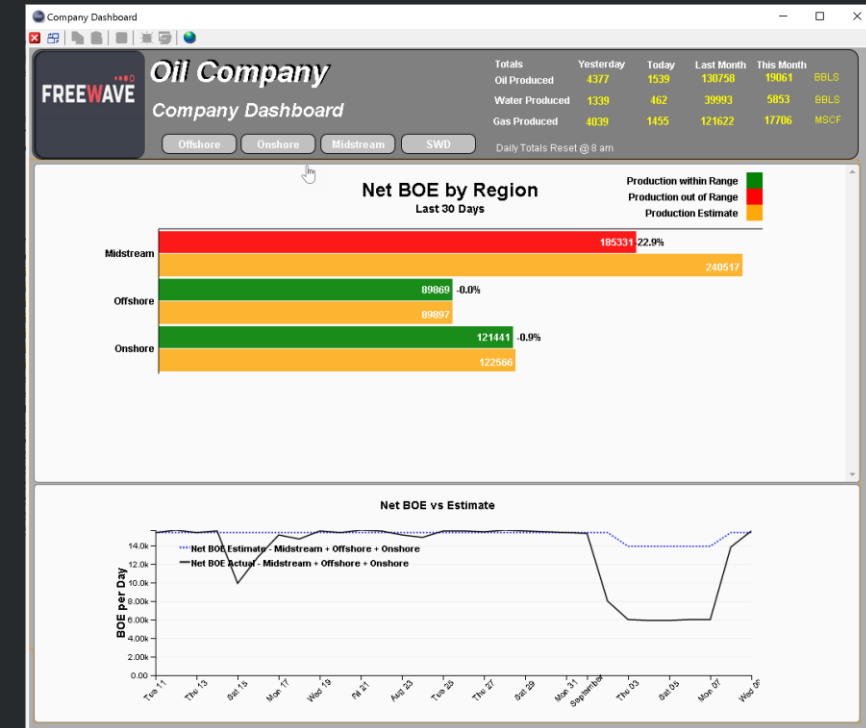
FULL Modular Stack.....Pay as you GROW

Operations Software Suite (OSS) Competition



FreeWave Digital Oil Field (DOF) – Overview

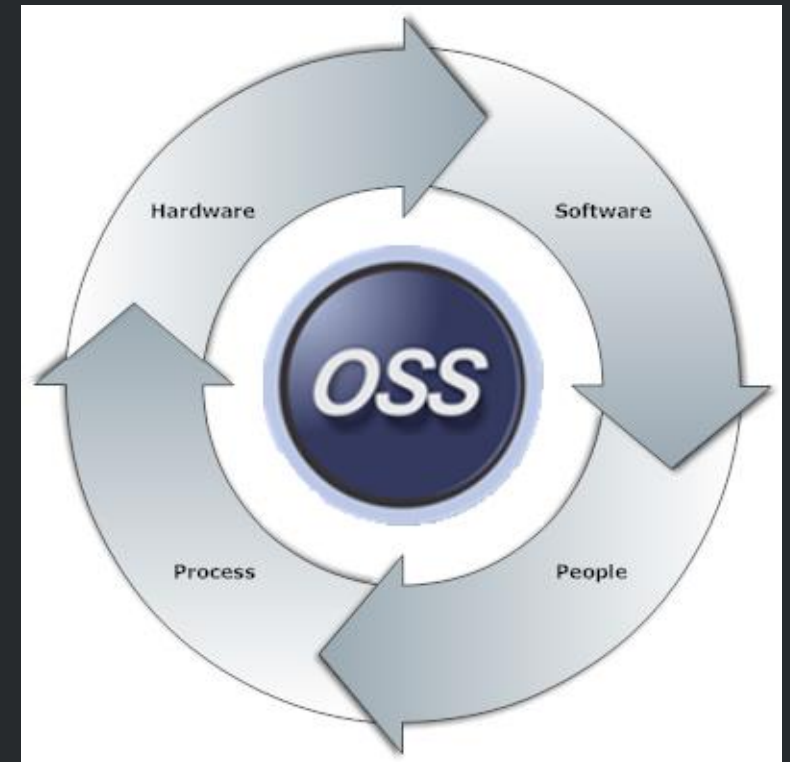
- Role-based visualization of operations
- Instantly know if on target
- Maximize operation performance
- Optimize production assets
- Reduce downtime
- Predict maintenance



FreeWave DOF – Value Proposition

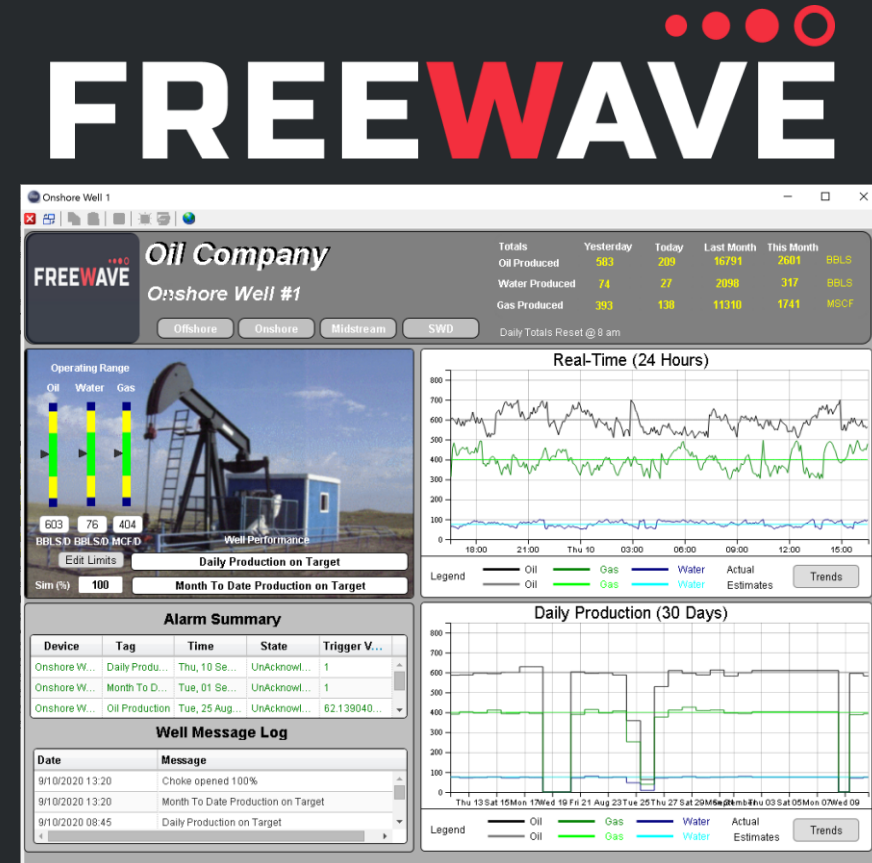
- As much as 5-10% higher production rates
- Up to 30% operating cost savings
- 5-10% improvement in resource recovery
- 3-5% lower project costs
- Visualization of targets and estimates anytime and anywhere

FREEWAVE



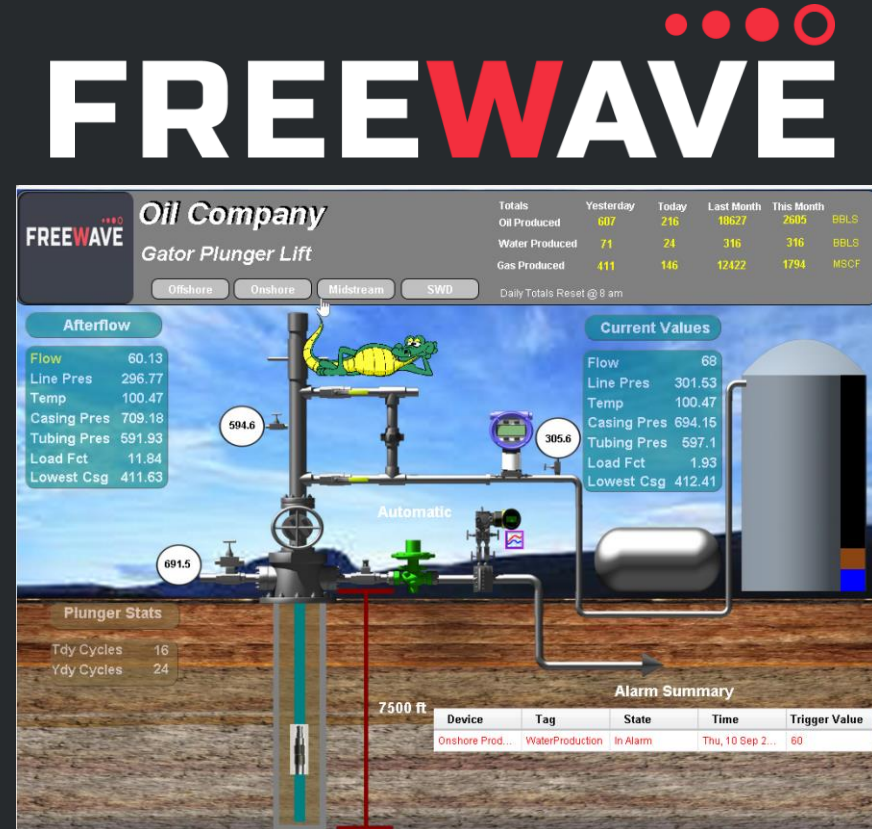
FreeWave DOF – Maximize Efficiency

- Maximize Performance, Monitoring and Tracking of:
 - Onshore Production Assets
 - Offshore Production Assets
 - Disposal sites
 - Compressors
 - Midstream:
 - Distribution
 - Transmission
 - Sales Ticketing



FreeWave DOF – Optimization

- Maximize Production on:
 - Pumper Jack
 - Plunger Lift
 - Injection and other Artificial Lift
- Maximize Efficiency on:
 - Pipeline Balancing
 - Pipeline Nominations
 - Sales Ticketing and Tracking



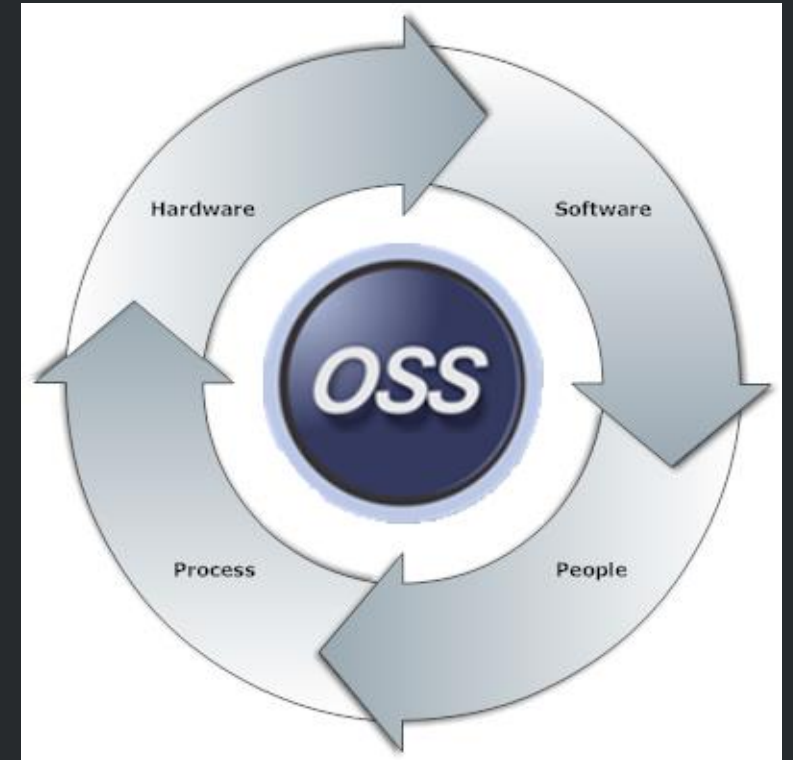
FreeWave DOF – Reduce Downtime

- Intelligent notifications – email, text, voice,
- Operate by exception
- Predictive Analytics
- Operational Assets Management
- Visualize information anytime, anywhere



FreeWave DOF – How it Works?

- Assess the assets in question
- Integrate with existing systems
- Aggregate data for Operational Intelligence
- Apply templates for DOF
- Optimize Production
- Optimize manual procedures and operational inefficiencies



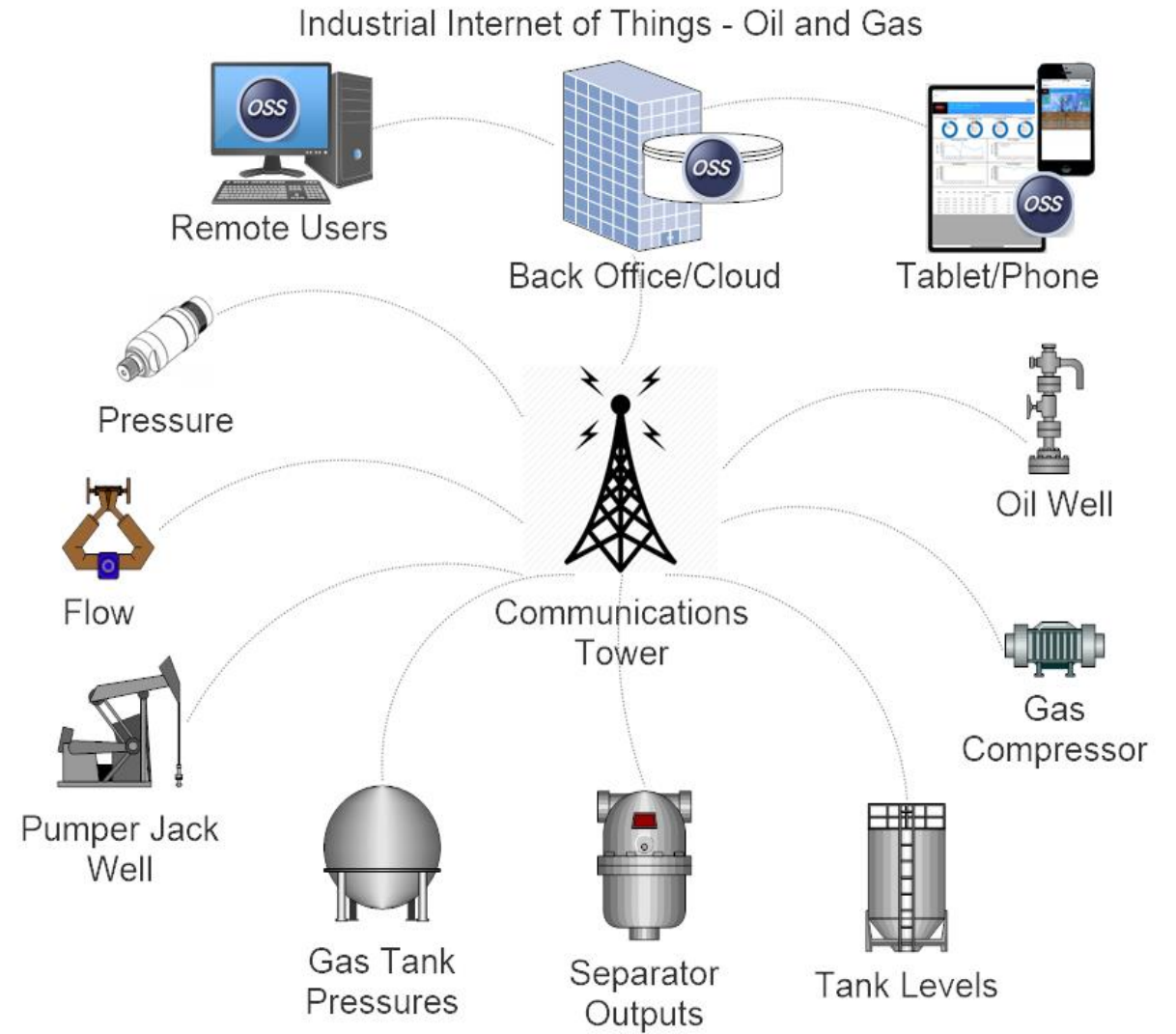
Operations Software Suite (OSS) Deployment Models

Cloud Deployment

- Customer pays one-time “Setup” fee then monthly fee charged quarterly or annually
- FreeWave or FW Integrator can Setup and configure the system and get signoff from customer
- Setup can sometimes be automated

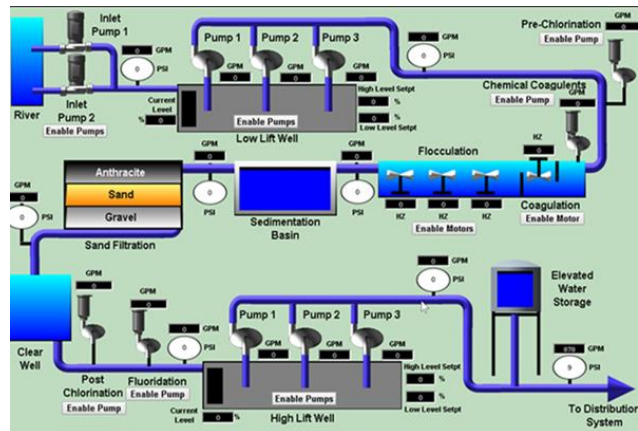
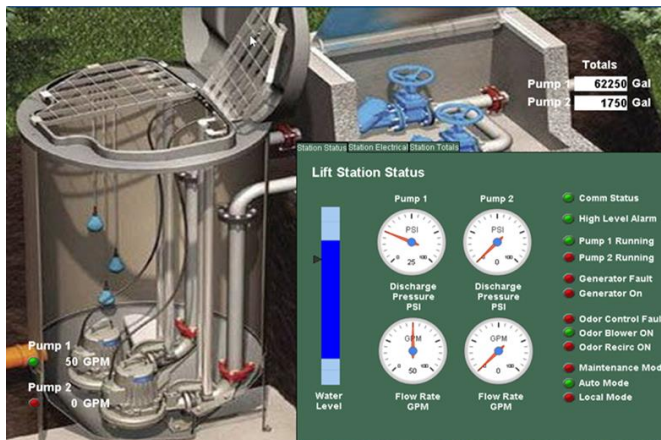
Owned or Installed System

- Customer buys system up-front, pays Maintenance and Support Annually
- FreeWave or FW Integrator can perform services to configure, train and support customer.



Next Steps

1. Questions
2. Please contact your local FreeWave sales representative, e-mail support at support@freewave.com or call us at 866-923-6168



FREE
OSS Product Training
for our Channel Partners
between
September – December 2020

Questions?

