



# Operations Software Suite (OSS) Overview

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September 23, 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**



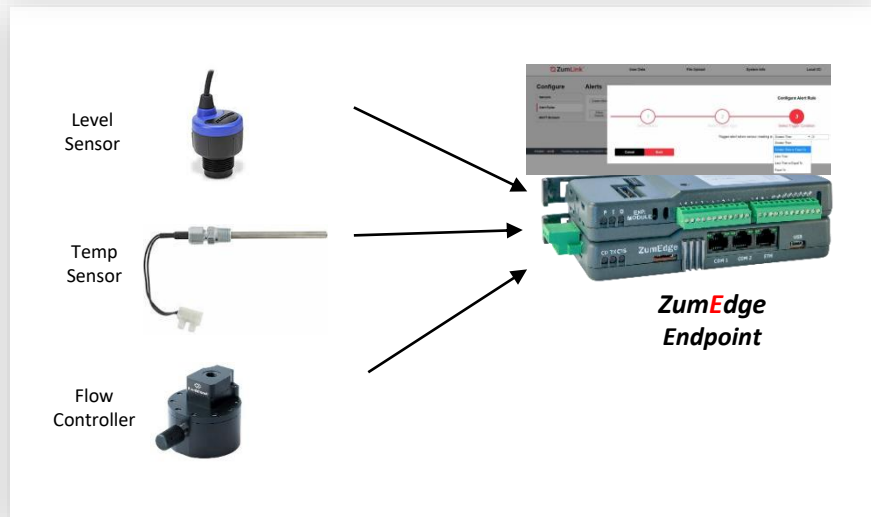
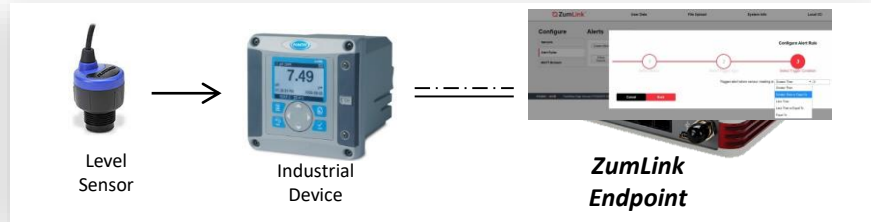
**Edge Software**



**Enterprise Software**

# ZumLink and ZumEdge –

Edge Data HW/SW Platform



900MHz

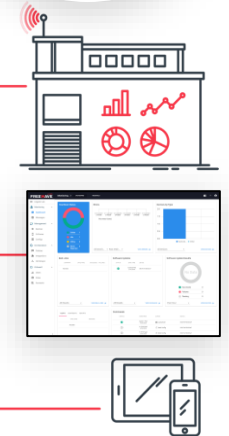


Poll/Response or MQTT or API

**FREEWAVE**  
Edge Data  
Platform  
Available Now

**FREEWAVE**  
Remote  
Management  
Available Now

**FREEWAVE**  
Operational  
Software Suite  
(OSS)



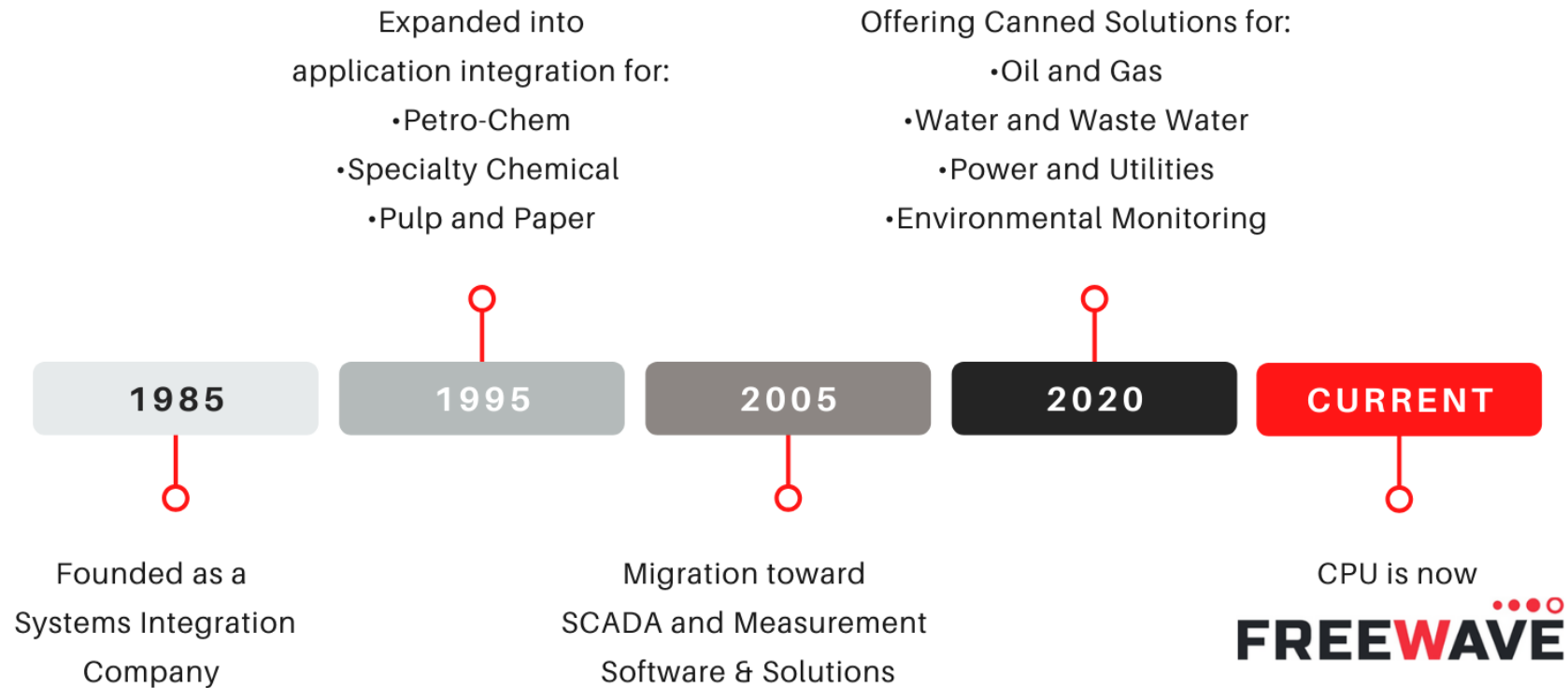
# Agenda

- Introductions
- What is FREEWAVE OSS
- Examples of “How and Where we Work”
- Project Example & Channel Pricing Models
- Next Steps and Q&A



*Combining Decades of  
Hardware and Software  
creating Solutions that Solve  
Customer Problems*

# CPU Background



# Company We Keep

## Oil & Gas



## Water/WW/Environmental



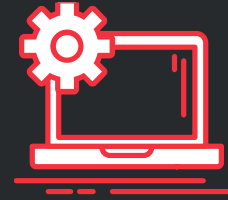
## Gas-Power/Utilities



# 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

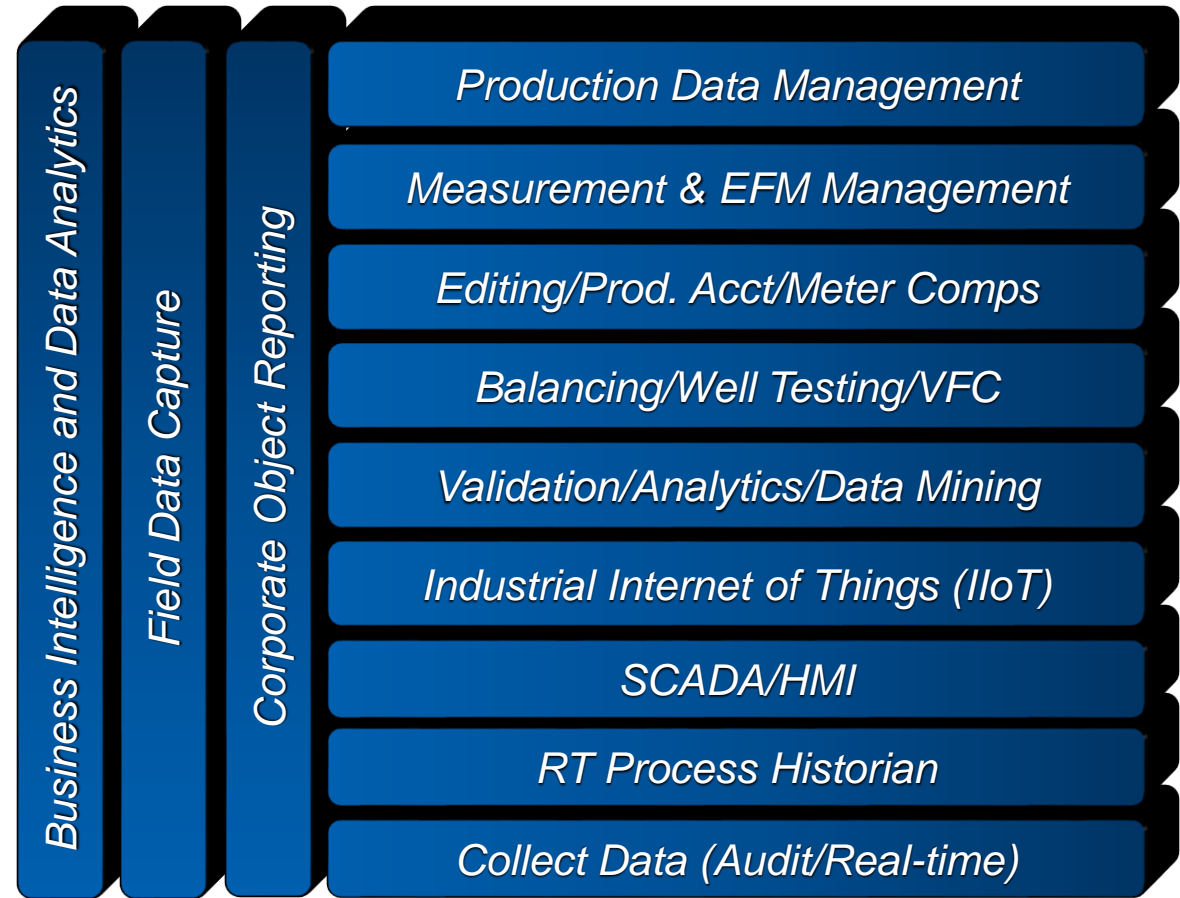
- **Improved** overall service reliability
- **Enhanced** detection and outage prevention
- **Reduction** in outage downtime
- **Faster** repairs and more accurate service restoration estimates
- **Reduce Operational Costs** through increased efficiencies



# Operations Software Suite (OSS) Value Proposition

## Control Room to Boardroom

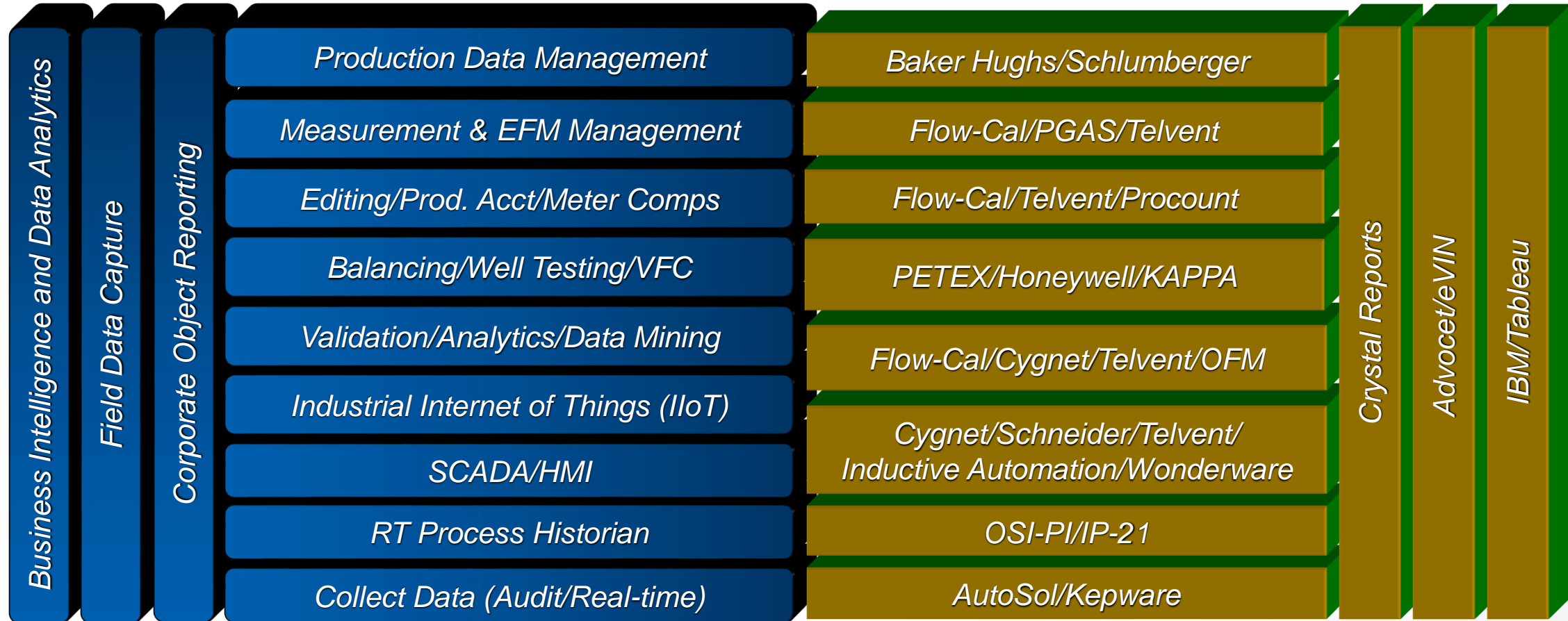
- One vendor for all Operation Software Needs
- Fixes “Silos of information” problem
- Obtain data from any device or any system
- Templated solutions for efficient configuration
- All your information, anytime – mobile or desktop
- Alerts as required – emails, text, voice
- Can fill gaps in current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



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

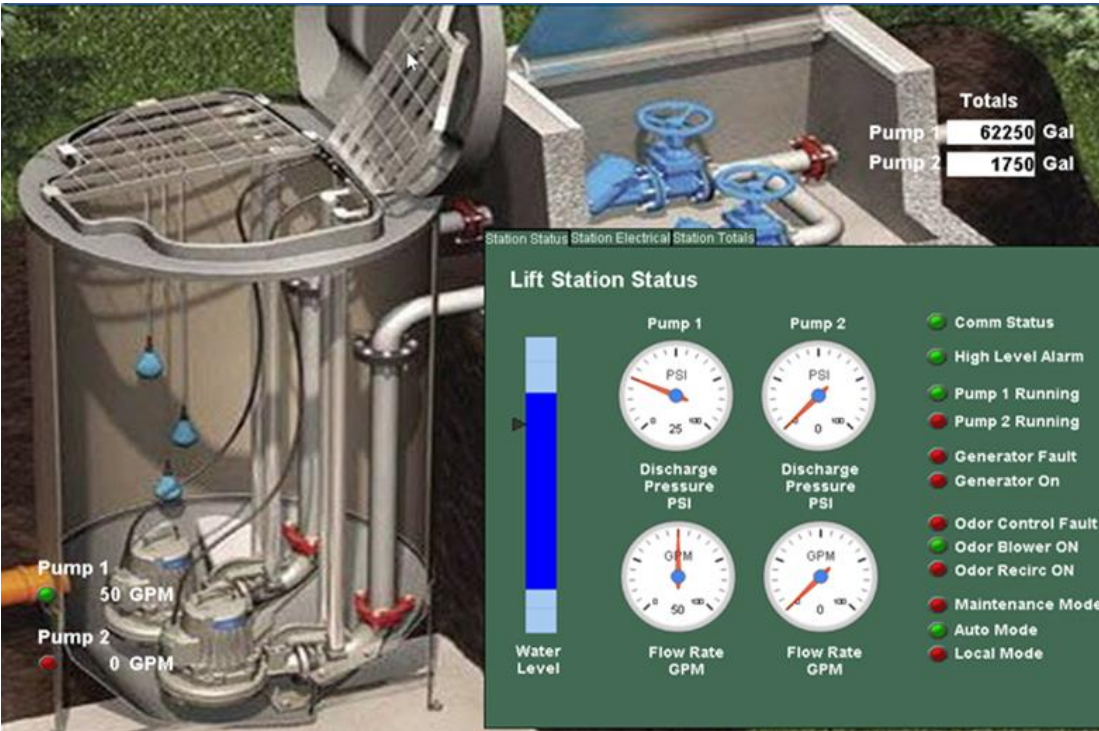


# Operations Software Suite (OSS) Competition



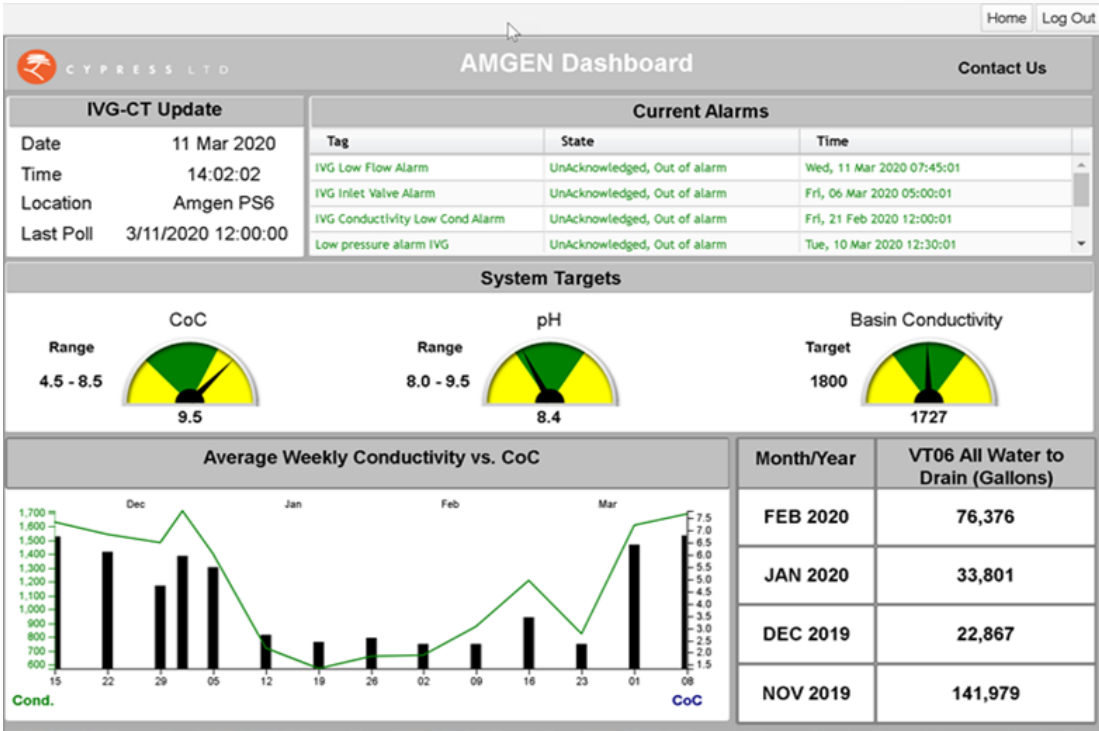
# Operations Software Suite - Examples

## OSS Pumping Station Overview



Jefferson Parish Water Board

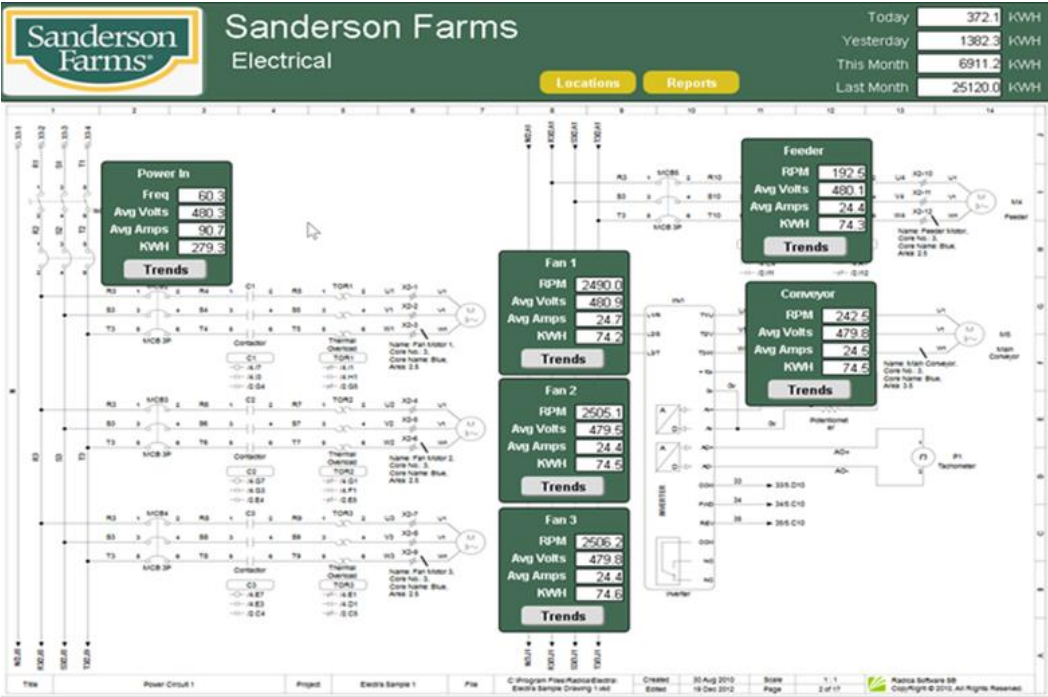
## OSS Water Cooling Tower Overview Dashboard



Cypress, Amgen, Westin

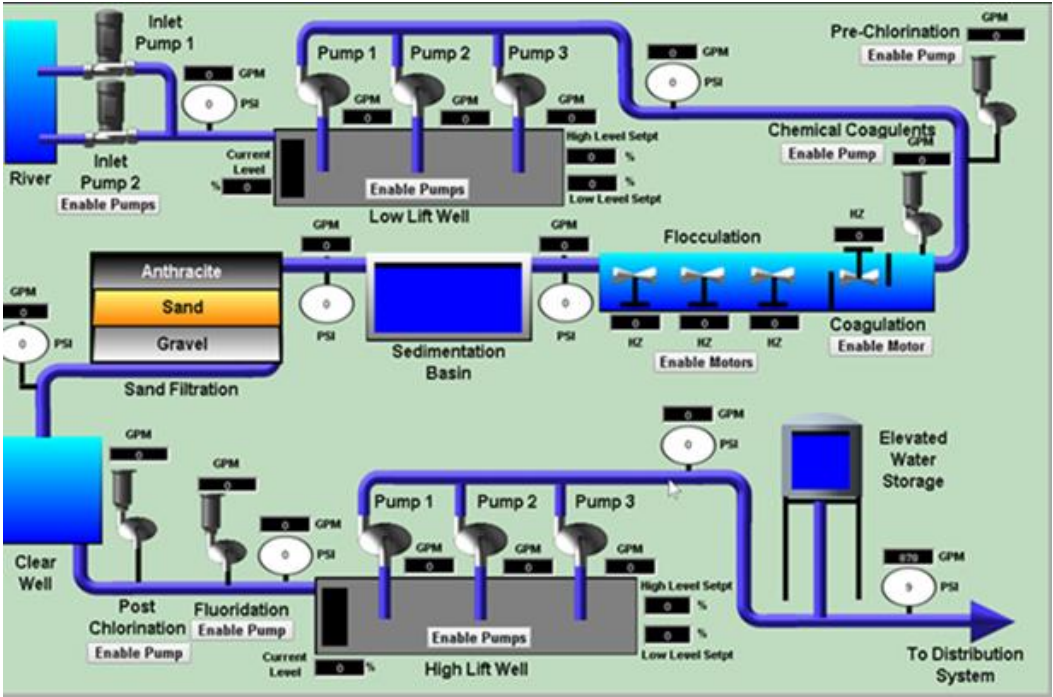
# Operations Software Suite - Examples

## OSS Power Monitoring Overview



Sanderson Farms

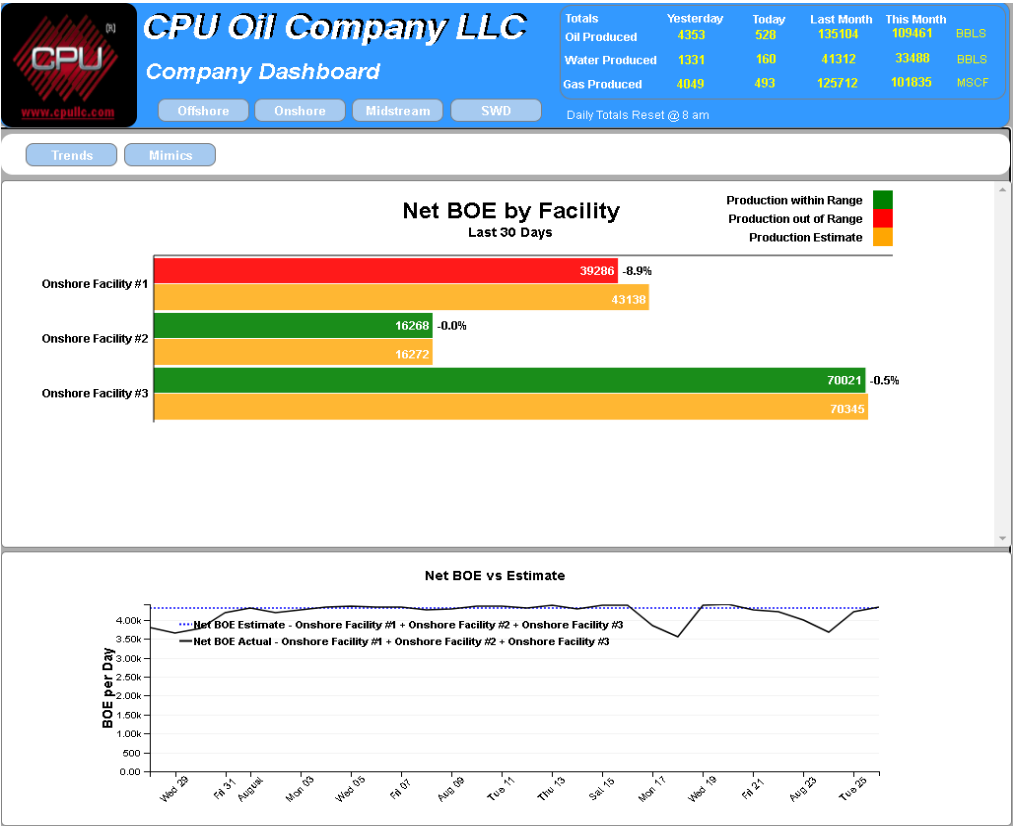
## OSS Water Processing Overview



Sanderson Farms

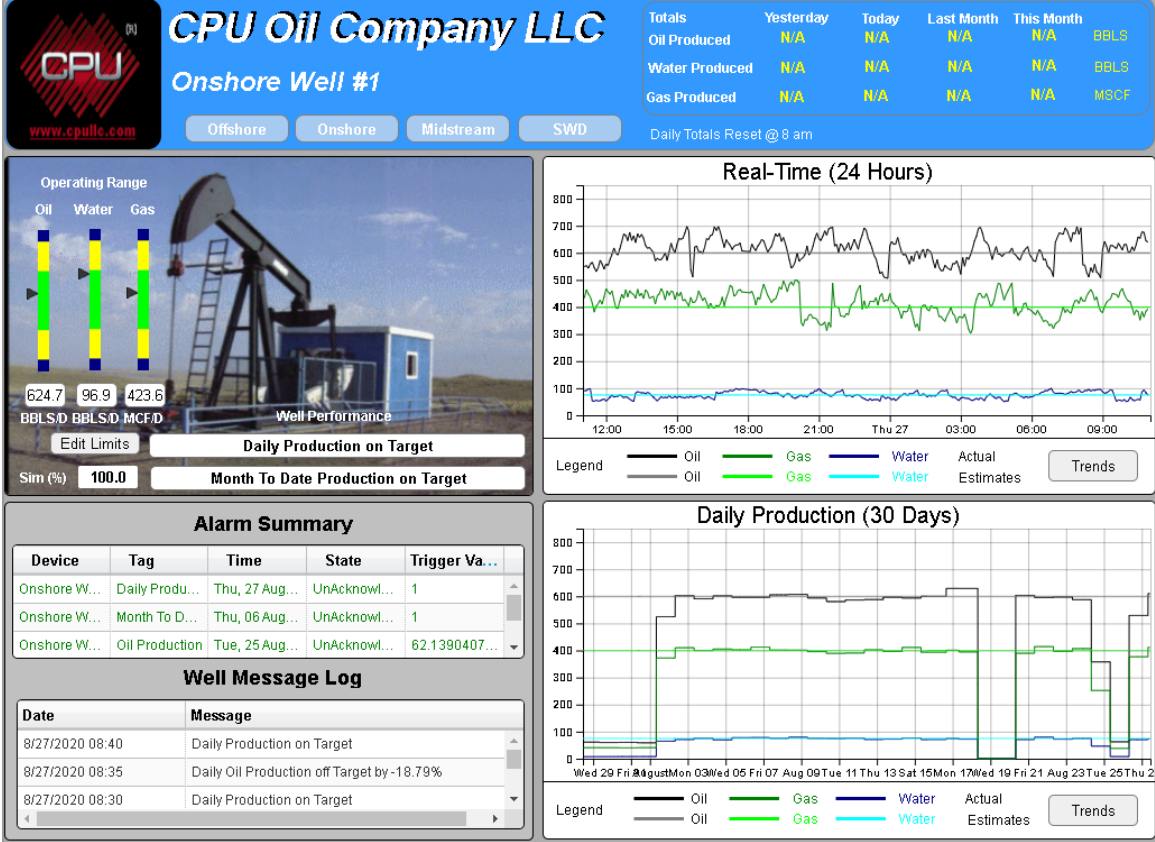
# Operations Software Suite – Digital OilField

## OSS Production Dashboard



Urban Oil and Gas

## OSS Production Management



Urban Oil and Gas



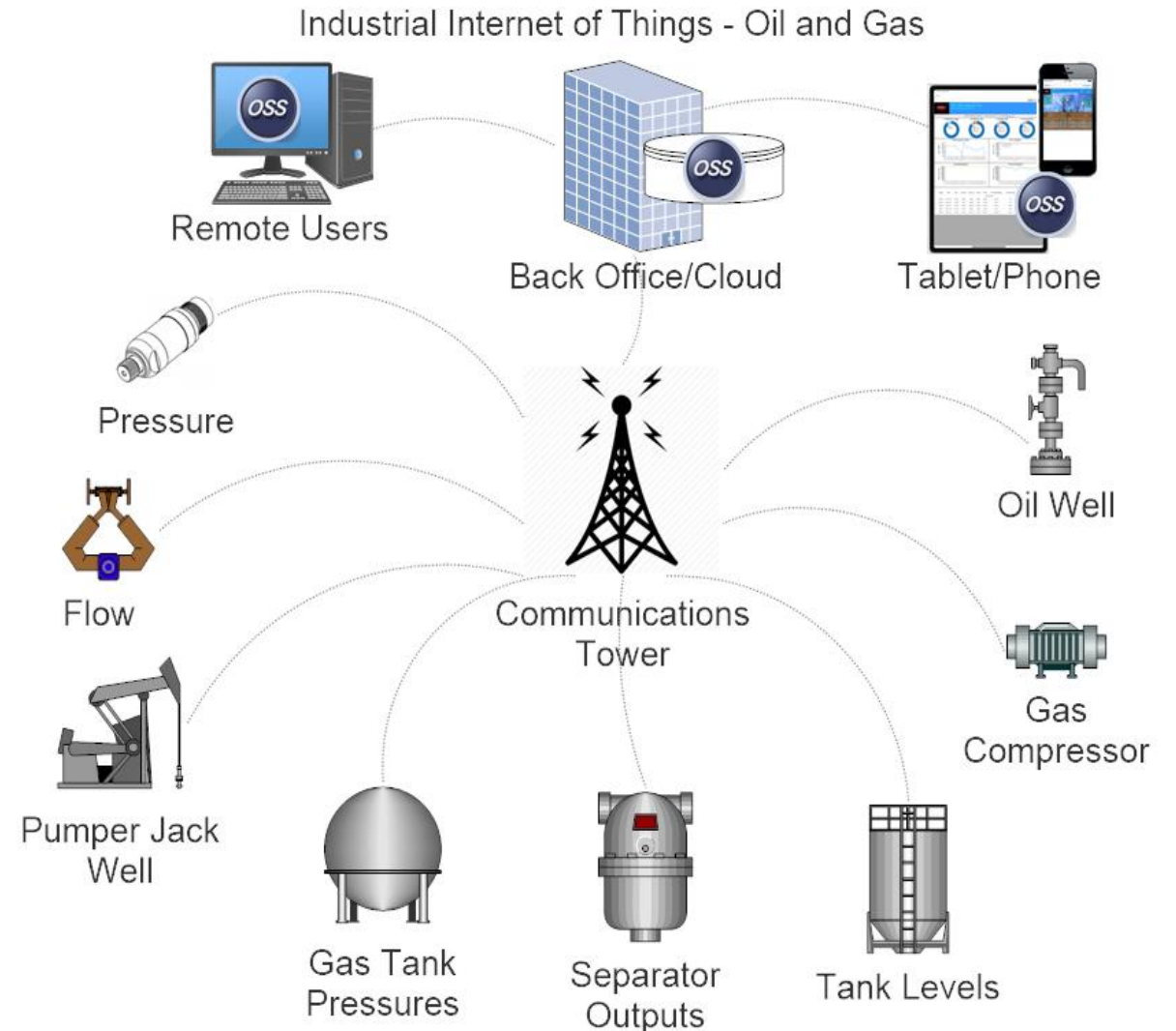
# Operations Software Suite (OSS) Deployment Models

## 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.



# Project Overview – Average Customer Example

- ZumEdge/ZumLink – Field Connection Devices
- Operations Software Suite (OSS)
  - Data Collection including history per tag, trending, etc.
  - 30 Devices - Up to 3000 tags
  - Web Dashboard
  - Overview Mimic (Graphic) “Digital Twin”
  - Detailed Mimics per site if required
  - 3 Operational Reports
  - Alarming – Text/E-mail (Voice at addition cost)

ZumEdge



# Owned Pricing – Average Customer Example

#	ITEM	Price	Cost
1	Hardware	Customer Cost / Acquisition / Server / Zumlink	--
2	OSS Software	<ul style="list-style-type: none"> <li>✓ Base (Scheduler and Server) - \$3,500</li> <li>✓ Tags – 3000 Tags (\$800*3) - \$2,400</li> <li>✓ 10 Viewing Client - \$15,000</li> <li>✓ 2 Standard Client (Configuration) - \$6,000</li> <li>✓ Maintenance and Support (Annual) - \$26,900 * .2 = \$5,380</li> </ul>	\$26,900 \$ 5,380
3	Configuration	<ul style="list-style-type: none"> <li>✓ Tags + Alarming – 6 man-days – \$8,400</li> <li>✓ Web Dashboard – 5 man-days - \$7,000</li> <li>✓ Overview Mimic (Graphic) – 4 man-days - \$5,600</li> <li>✓ Reports – 2 man-day - \$2,800</li> </ul>	\$23,800
4	Training	Optional vs. \$175 per hour	\$2,500
	TOTAL		\$58,580

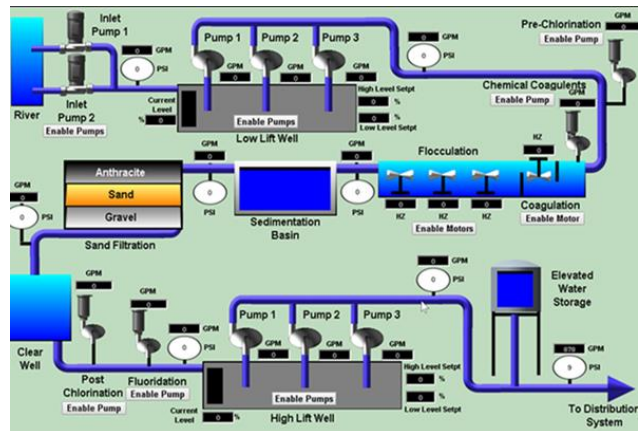
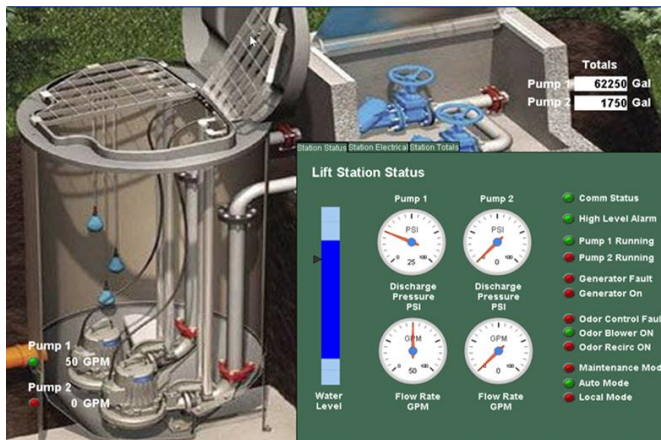


# Cloud (SaaS) Pricing – Average Customer Example

#	ITEM	Price	Cost
1	Hardware	Customer Cost / Acquisition / Server/ Hosted	--
2	Software	Initial Set Up - Includes 10 Client Licenses	\$8,500
3	Software Costs 30*\$40*12 months	<ul style="list-style-type: none"><li>✓ Data Collection including history per tag, trending, etc.</li><li>✓ Up to 30 devices and 3000 tags</li><li>✓ Web Dashboard</li><li>✓ Factory Overview Mimic (Graphic)</li><li>✓ 3 Operational Reports</li><li>✓ Alarming – Text/E-mail (Voice at addition cost)</li></ul>	\$14,400
4	Integration Training	Optional vs \$175 per hour	\$2,500
	Total	Year 1 (\$22,900 + \$2,500), Year 2 = \$14,400	\$25,400

# Next Steps

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



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

**Questions?**

