SCADA & Telemetry Roadmap

Products, Systems and Future Direction
Target Market Segments - SCADA

**Core**
- Mining, Minerals & Metals
  - Mining
  - Minerals
  - Metals - making
  - Metals - process
- Water & Waste Water
  - Pump stations
  - Lift stations
  - Flood monitoring
- Food & Beverages
  - Liquid Foods
  - Agri-Business
  - Other foods
- Upstream & Midstream
  - Oil & Gas
  - Upstream
  - Pipelines (Gas)
  - Pipelines (Liquids)

**Emerging**
- Electrical Utilities & Renewables
  - Solar
  - Hydro power
  - Wind
- Smart Infrastructure
  - Subway
  - Tunnels
  - (Airports)
PA SCADA Portfolio

Foxboro
- SCD6000
- SCD2200

SE RTUs
- SP500/535e
- SP300/300e
- SP/SP32
- SP100

Solutions
- RealLift
- RealFlow
- RealStream

MTUs
- IASCADA V10
  [Solaris 10]
- Foxboro Evo SCADA
  [ASP2014.R2]
- ADMS
  Or
- EPLMS
- OASys DNA
- ClearSCADA

RTUs

TRIO Licensed Radio
TRIO Licence
Free Data Radio
## Constraint Based RTU SELECTION GUIDE 2016

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>SCADAPack-E</th>
<th>SCD2200</th>
<th>SCD6000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Key Segments</td>
<td>Upstream, WWW</td>
<td>Oil and Gas General</td>
<td>Midstream, Mining, Power</td>
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<tr>
<td>Redundancy</td>
<td>[Roadmap 2017]</td>
<td>YES</td>
<td>No</td>
</tr>
<tr>
<td>Hot SWAP</td>
<td>[Roadmap 2017]</td>
<td>YES</td>
<td>No</td>
</tr>
<tr>
<td>Large Distributed</td>
<td>No</td>
<td>No</td>
<td>YES</td>
</tr>
<tr>
<td>IO Count</td>
<td>10-200</td>
<td>10-800</td>
<td>10-10K</td>
</tr>
<tr>
<td>Power Range</td>
<td>1W to 10W</td>
<td>4W to 60W</td>
<td>5W to 60W/Rack</td>
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<tr>
<td>CyberSecurity</td>
<td>Achilles</td>
<td>SDL/ Achilles</td>
<td>SDL / EDSA LEVEL 1 [2017]</td>
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<tr>
<td>IEC61850 Client/Server</td>
<td>No</td>
<td>No</td>
<td>YES</td>
</tr>
<tr>
<td>DNP/SOE</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Form</td>
<td>Compact [multiple ranges]</td>
<td>Modular</td>
<td>Distributed</td>
</tr>
<tr>
<td>HART Integration</td>
<td>[6602 Module]</td>
<td>YES [With MUX]</td>
<td>No</td>
</tr>
<tr>
<td>IEC 101/104</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Battery Powered

Solar Charged

Power-IO constraint guide

Power Consumption

<2kw

<200w

<20w

<2w

<0.2w

IO Count

SCD6000

SCD2200

SP100

SP530E/535E

SP300/300E

SCD6000

[100w per node] Distributed

Powered Node

Solar Charged

Battery Powered

SCADAPack
## Configuration and Programming Environment

<table>
<thead>
<tr>
<th>Product</th>
<th>Centralized Configuration</th>
<th>Unity Editor</th>
<th>ISAGraf 5/6 [Target 5]</th>
<th>ISAGraf 6 [Target 3]</th>
<th>SALL</th>
<th>TELEPACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCD6000</td>
<td>Foxboro Evo RTU Station</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>SCD2200</td>
<td>FoxRTU Station</td>
<td></td>
<td></td>
<td></td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>SP300E/500E</td>
<td>ClearSCADA</td>
<td>Enabled</td>
<td></td>
<td></td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>SP100/300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>SP570</td>
<td>ClearSCADA</td>
<td>YES</td>
<td></td>
<td></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>SP470/SP270</td>
<td>ClearSCADA</td>
<td>YES</td>
<td></td>
<td></td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>SP1070</td>
<td>ClearSCADA</td>
<td>YES</td>
<td></td>
<td></td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
New Offers launched in 2016; Roadmap for 2017

**2016**
- Foxboro SCADA 3.2
- Cybersecurity - Domain Controller
- **Foxboro Evo Platform Convergence**
  - G9 Servers
  - System Platform 2014 R2 P01
  - Windows Server 2012 R2
- Disaster Recovery
  - VM & Servers Status Display
  - Dual Domain HMI
  - Auto. Control Centre Failover
- DNP3 SA v5 {Cybersecurity}

**2017**
- Foxboro SCADA 4.0 Modularity with Foxboro Evo
  - Common Configurator, Common Galaxy
  - Common HMI, Common Historian
  - Unified Alarm and Event Information
- **Benefit**
  - Reduce CAPEX / OPEX costs for End Users
  - Enhance solution set offered by Foxboro Evo
  - Provide foundation for integration of IEC61850 data acquisition and reporting

FOXBORO Evo
‘A single common platform for integration of control and data acquisition’
New Offers launched in 2016; Roadmap for 2017

### 2016

- **SCD6000 – RoHS compliant**
  - ISA Secure EDSA L1
  - Bus Extender RTU50 Migration
- **SCADAPack 570/575**
  - High performance RTU for Oil & Gas
  - Unity logic engine
- **SCADAPack 6602**
  - Analog HART Integration
- **Realift RPC 2.0**
  - Small form factor
  - Advanced Torque Optimization

### 2017

- **SCD6000-XR**
  - Redundancy, Mesh Connectivity
- **Trio Q Radio VHF BAND**
  - VHF band for licenced wireless network
- **Trio Q QAM Modulation**
  - Double bandwidth and speeds with QAM modulation
- **SP1070 Modular Redundant RTU**
  - High performance, scalable RTU
- **Realstream Lift Station 1.0**
  - Telemetry Solution for Wastewater Lift Stations
- **Realflo 7.0**
  - SCADAPack X70 Support
Development of the FOXBORO SCD6000 Range
Transition by Company and by Technology

L&N Australia | Foxboro Australia | Foxboro by Schneider-Electric

Conitel Range of RTUs originated in 1930s in USA
LNA acquired by The Foxboro Co. USA in 1995

C50 | RTU50 | SCD5200 | SCD6000

RTU50-SVX | RoHS SCD6000 COPE, CPU

SCD6000 RoHS | SCD6000-XR
Redundant, Marine Certified
Foxboro ICSS Integrated

2015 | 2016 - 2020
Unifying/Convergence Objectives

Cross BU – Cross Platform Excellence – Best in Class Technology

- Include Security in all new RTU developments
  - SCD6000: EDSA Level 1 phased approach for SCD6000 defined in Roadmap
  - SCADAPack: SDL, Achilles Robustness approach leading to EDSA in next few years
  - SCD2200: Achilles Robustness approach including Foxboro Security Development Lifecycle [SDL]
- Create Convergence with Unity Pro Platform
  - Unity review and compatibility for All new SCD* and SP* RTUs
- Create Alignment with SE-SET/PACiS Configuration Tools
  - SCD6000 .SCD files generated
  - IEC61850 Runtime Graphics generated
  - IEC61850 Edition 2
What’s Happening?

Near term releases, highlights in relation to the SCADA and Telemetry Portfolio
### Feature Release Docket - What are we working on.....

#### SCADA Master
- High availability platform
- **Foxboro Evo**
  - SCADA 3.1
  - SCADA 3.2
  - SCADA 4.0
- **IASCADA [Unix]**
  - Version 9
  - Version 10.0

#### Data Radio Systems
- Secure radio Telemetry
- **Firmware 1.4x NAT & TFTP UHF Band**
- **Firmware 1.5x VLAN support**
- **Revised Trio Accessories**

#### Wireless Sensor Network
- IloT wireless measurement
- **Ethernet BR30 Base Radio**

#### Remote Terminal Units
- Remote Automation Solution
- **Foxboro SCD Systems**
  - SCD6000 RoHS
  - SCD6000 EDSA L1.1
  - SCD2200 Update 3
- **SP300-300E Phase 2**
- **SP500E**
  - Achilles L2
  - MTL HART
  - 6602 HART Module
  - embedded 3G/LTE modem
- **Unity Telepace Tool**
- **Unity ISAGráf Tool**

#### Remote Solutions
- **Realift RPC 2**
- **Realift PCP 2**
- **Realift HSU**
- **Realflo API Update**
- **Realstream (water)**

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**FOXBORO**

**TRIO**

**ACCUTECH**

**SOLUTIONS**
Highlights

SCADA and Telemetry – Master Stations

Foxboro Evo SCADA systems provide long term support and extensibility for both Microsoft and Solaris Based Operating Systems

Foxboro Evo SCADA 3.2, IASCADA V10

Both Master Stations were enhanced to cover Disaster Recovery and Expanded Virtualized performance on their respective operating systems for large scale end user control rooms.

Features

- Virtualization on Foxboro Evo Workstations and Servers
- Disaster Recovery for multi-control centres
- Faster processing of Serial DNP ports for use with TRIO Radio Systems
- NewArchiving and Web Interface3 [IASCADA]

Benefits

- End users are looking to provide an alternate control location with minimal downtime and minimal applications engineering cost
- Overall Control Centre Operations Availability
- Common HMI with independent Zones of Control allowing ease of incorporation of new Subsystems [IASCADA]
Highlight

SCADA and Telemetry – Master Stations

Focus on usability and efficiency of engineering and better storage of complex measurement data

ClearSCADA 2015.R2

Features

- Scalability - up to 750K points
  - Database Wide Search through UI
  - Momentary Control Button
  - Enhanced trend display options [x-axis jump mode option
- historic alarm levels enhancement
  - Secure email [ssl,tls] sending [IT Cybersecurity]
  - Support for Foxboro NOCT60 [drop down config options]
  - SCADAPack E enhancements (firmware 8.12.2)
  - Client connection QoS from synchronising servers
  - active export to Wonderware eDNA historian

Benefits

- Engineering Efficiency Increase
- System Historian Complexity Reduced
- Wider range of Gas and Liquid flow computers supported
- Increase Operational Effectiveness

Anglian Water UK €..m
Consolidation of Multiple SCADA regions. Double Database Size
90% improvement in performance
Highlights

SCADA and Telemetry - Wireless Data Radios

Range replacement of Trio E including migration tools
Improved Ethernet and IP routing capability

Trio-Q with E/M Series Emulation for all Global Regions

Expanding the global coverage of regulatory compliance for the Q-Series and providing E and M Series Emulations to enable E-Series Migration.

Features
- Trio Q 450 (ACMA/ETSI/FCC regulatory regions)
- FCC regulatory region approved radios (QR, QB, QP & QH)
- Trio E & M Emulation Modes
- Approval for QR450 to be installed in CSA Class I, Division 2, Groups A, B, C & D hazardous locations
- VLAN segmentation and multi user access control

Benefits
- Modernization and Expansion of Existing Networks
- Wider regional coverage for the new Q series radios
- Wide range of Ethernet/IP routing features
- Improved security and management access controls

2014 2015 2016 2017 2018

QR450 QH450

CSA Class I, Division 2, Groups A, B, C & D

E-Series

M-Series
Highlights

SCADA and Telemetry – Remote Terminal Units

Sustainability and Future Proof long life distributed RTU networks for all markets. Provide integration gateways for Foxboro Evo DCS and TRICONEX systems.

Foxboro SCD6000 IEC61850 Controller and RoHS Modernization

Features
• 100BaseT - Ethernet Diagnostics Port
• High capacity IEC61850 configurations, client and server
• New Secure Access to Tools and Diagnostic Ports

Benefits
• Environmental Sustainability
• High Performance, High Capacity Data Translation
• High Performance, High Capacity Control Processor
• Backward Compatible with RTU50/SCD5200

CE, UL
Highlights

SCADA and Telemetry – Remote Solutions

Launch of the Realift Artificial Lift Solution Family for Pump Automation and Production Optimization

Realift RPC and Realift PCP

Description
• Fully Integrated Drive Control Panels or Standalone Controllers

Features
• Automation of Rod Pumps and Progressing Cavity Pumps
• Multiple Control Modes for Optimal Production Optimization
• Single Cabinet Solution Integrated with Altivar Drives
• Flexibility and Expandability of SCADAPack RTU

Benefits
• Increase Production by 10% to 15%
• Built-in Protections for Extended Equipment Service Life
• Full Remote Management of Firmware, Application and Configuration
• Expandable IO through SCADAPack Expansion Modules
Highlights

SCADA and Telemetry – Remote Solutions

Launch of a Liquids and CO2 Flow Computers for Oil & Gas Production Measurement

Realflo Liquids and Realflo CO2

Description
• Flexible electronic flow measurement solutions for Upstream Production and Midstream

Features
• A SCADAPack measurement solution
• Upstream production measurement of gas, oil, and water
• Gas pipeline measurement with auditable history or accounting and measurement diagnostics

Benefits
• Flow computation platform for well-test applications
• Net Oil Computation (NOC) for determination of net oil and water
• Allocation measurement
• Production optimization

2014  2015  2016  2017  2018
## Technology Outlook

### SCADA Master Station
- **IASCADA 10.0**
- **ClearSCADA 2015.R2**

### Remote Communications
- **Accessories**
  - Q F/W 1.5 VLAN/Multi-User
  - Q V/HF
  - Q F/W 1.6.x Header Compression & Prioritization
  - Q F/W 1.7.x RADIUS & TCP Acceleration
  - Enhanced Collision Avoidance

### RTU Controllers
- **SCD6000 RoHS**
- **SCD2200 V6.1, 6.2**
- **SCADAPack 300/300E New Design**
- **1070/570/575 (UNITY)**
- **500E Achilles Level 2**
- **6602 HART**

### Wireless Sensor Network
- **SCD6000 EDSA Level 1 Phase 1 and Phase 2**
- **Foxboro Evo SCD6000 V2.0**

### 2016 – High Level Summary

<table>
<thead>
<tr>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Delivered</strong></td>
<td><strong>On-going</strong></td>
<td><strong>Planned</strong></td>
<td><strong>Included</strong></td>
</tr>
<tr>
<td>IASCADA 10.0</td>
<td>SCADA 3.2</td>
<td>SCADA 4.0</td>
<td><strong>Foxboro Evo SCD6000 V2.0</strong></td>
</tr>
<tr>
<td>ClearSCADA 2015.R2</td>
<td><strong>Accessories</strong></td>
<td>Q F/W 1.6.x Header Compression &amp; Prioritization</td>
<td>Q V/HF</td>
</tr>
<tr>
<td><strong>SCD6000 RoHS</strong></td>
<td><strong>SCD2200 V6.1, 6.2</strong></td>
<td><strong>SCD2200 V6.3</strong></td>
<td><strong>500E Achilles Level 2</strong></td>
</tr>
<tr>
<td><strong>SCADAPack 300/300E New Design</strong></td>
<td><strong>1070/570/575 (UNITY)</strong></td>
<td><strong>6602 HART</strong></td>
<td><strong>BR30 Gateway</strong></td>
</tr>
</tbody>
</table>

**Technology Outlook:**

- *SCD6000 EDSA Level 1 Phase 1 and Phase 2*
- *SCD2200 V6.1, 6.2*
- *SCADAPack 300/300E New Design*
- *1070/570/575 (UNITY)*
- *500E Achilles Level 2*
- *6602 HART*

---

**Notable Features:**

- Header Compression & Prioritization
- RADIUS & TCP Acceleration
- Enhanced Collision Avoidance

**Delivered On-going Planned**

- *IASCADA 10.0*
- *ClearSCADA 2015.R2*
- *Accessories*
Where are we going?

Core Values and Longer Term Roadmap for SCADA and Telemetry
Elevate Efficiency & Productivity
- Highly available, distributed operations with location-aware control
- Decision support with right information in the right context

Continuous Remote Control with Reduced Risk
- Security over public and private networks – well defined trust boundaries
- Central Engineering and Network Management

Achieve Future Proof Operations
- Lower Infrastructure Costs (network, enclosures,..)
- Increase Plant Efficiency, Optimize Production Assets

Enable Cost-Effective, Efficient Integrated Control
- Simplify integration & management of disparate devices
- Improve asset efficiency while simplifying operations
Foxboro Evo SCADA systems provide long term support and extensibility for both Microsoft and Solaris Based Operating Systems

**Foxboro Evo SCADA 4.0**

Version 4 will provide full convergence of SCADA Platform function with the Foxboro Evo DCS system.

**Features**
- Common Evo Galaxy
- Common Evo HMI
- IEC61850 Client Integration [SE Brick Technology]

**Benefits**
- A single Engineering experience of in plant and out of plant control
- Direct integration of IEC61850 Information Model to the DCS and SCADA Client Applications
Coming Up…

SCADA and Telemetry – Master Station Software

Focus on a common platform with SCADA and DCS technologies within the same console and control room

Foxboro SCADA 4.0 either Standalone or with Foxboro Evo

<table>
<thead>
<tr>
<th>Software</th>
<th>HW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Configuration Tool</td>
<td>Same Server</td>
</tr>
<tr>
<td>One Galaxy</td>
<td>Same Server</td>
</tr>
<tr>
<td>Common HMI</td>
<td>Same Workstation</td>
</tr>
<tr>
<td>Common Historian</td>
<td>Same Server</td>
</tr>
<tr>
<td>Data Acquisition from RTU Network</td>
<td>SCADA Servers (Redundant)</td>
</tr>
</tbody>
</table>

- Benefit:
  - Reduce HW Cost
  - Easier Configuration (single point of configuration)
  - Address 90% of external device integration needs in DCS involve Data Monitoring and Supervisory Control.
  - Create the foundation of an integration of a «One Foxboro Evo» supporting IEC61850
SCADA and Telemetry – Master Stations

Focus on usability and efficiency of engineering and better storage of complex measurement data

ClearSCADA 2017

Features
• Mapping and GIS
  • Google, Bing, ESRI, Web Map Services [WMS]
• Location Awareness of Physical Assets and Operators
• Management of Trio Radio Configuration
• Extended Alarm Automation
• Active Directory Integration – Assigned to Groups within ClearSCADA

Benefits
• Mobile Awareness/Presence/Visualization of Field Operator Device and Location
• Overlay Weather Forecasting information from Web Sources
• Location Based Notifications
• Field Oriented Cause and Effect Analysis
• Logon with AD domain credentials sourced from customer Domain Controller

Key Integrations SE
• Weather Sentry
• TRIO Radio
  • Optimised Comms for Q Series
  • Foundation for Configuration
Global Markets are now diversifying from the congested UHF to the VHF band for licenced wireless network coverage

Features
• Advanced data compression, prioritization and RADIUS authentication
• New hardware offer for VHF 135-175MHz band coverage
• Improved collision avoidance for simplex and half duplex systems

Benefits
• Supports modern cyber secure network practices for authentication
• Improves user throughput over the air through innovative compression techniques and prioritization of user data
• Provides Access to the VHF market for users constrained by frequency allocations in the UHF band
SCADA and Telemetry – Remote Terminal Units

Development of a TVDA Trust Boundary and EDSL Level 1 Certificate for Cybersecure Practice for the SCD6000 RTU

Foxboro SCD6000 EDSA Level 1 Security

Complete hardening of the SCD6000 port security and robustness. Adherence to the Secure Development Lifecycle.

Features
- SCD6000 Expansion Bus Adaptors
- Rotary Switch Functions – User Defined
- Improved Global Optonet Reset
- DNP3 SAv5/v2 Slave
- Java Security Upgrade
  - Foxboro EVO RTV, Foxboro EVO RTU Station
- DNP3 Master CSV Import performance
- EDSA L1 Requirements

Benefits
- Certified to ISA99 Standards
- Secured Communications extending the trust boundary
Coming Up…

SCADA and Telemetry – Remote Terminal Units

General Hardware Update

Foxboro SCD6000 – Update 2

Functions
- Electrobus Expansion (HW & SW)
- Rotary Switch – Local Application

Performance Improvement
- Reduced Boot time

Functional Improvement (from Beta Program)
- "Convert to SCD6000" from SCD5200 configuration.
- Secured Global Reset across Optonet Distributed Nodes

SCD6000-Update 2

Benefit:
- Migration of RTU50 Architectures Simplified
- Compatibility with Electrobus Expansions
- Secure Global Restart for Distributed Configurations
SCADA and Telemetry – Remote Terminal Units

Development of a TVDA Trust Boundary and EDSL Level 1 Certificate for Cybersecure Practice for the SCD6000 RTU

Foxboro SCD6000-XR

Complete hardening of the SCD6000 port security and robustness. Adherence to the Secure Development Lifecycle.

Features

- IEC61850 GOOSE Signalling
- Bi Directional Integration of IEC61850
- Bi Directional Integration of Modbus/TCP
- Marine Certification BV, ABS, DNV
- Foxboro Evo Mesh Connectivity

Benefits

- Applicable to Marine Certified Environments [FPSO, FLNG, Offshore Platform]
- High Level Integration with Electrical MV/LV Switchgear and MV/LV Drives
SCADA and Telemetry – Remote Terminal Units

Coming Up…

SCADA and Telemetry

Beginning with the SP570/575 Unity based Compact RTUs [same form factor as SP500E] and extending through to future 270 and 470 series low power RTUs.

Features

- New 6602 HART IO Module
- SP300/300E Design Renovation
- SP570/575 with Unity logic and FDT2/DTM interface
- SP1070 modular RTU with redundancy option

Benefits

- Becomes a full participant in the StruxureWare architecture and Philosophy for ease of integration with other SE Automation products, Tools and Engineering Practice

2014 2015 2016 2017 2018
Introducing new models that leverage key Schneider Electric technology

- Unity logic engine (models x70)
- Industry standard FDT2/DTM interface
- Modularity and redundancy
- Super Efficient Power Management

**Oct 2016**

**SP570/575**
- First SCADAPack model with common user logic experience as Schneider Electric PAC
- FDT2/DTM open standard configuration environment
- Leverage hardware technology from 530E/535E

**Q2 2017**

**SP1070**
- Modular SCADAPack
- Redundant CPUs & power supplies
- High density I/O
- Hot swappable modules
- Very wide temperature range for harsh remote applications

**Q3 2017**

**Realflo Solution**
- Adapted to SCADAPack x70
- Starts with 570/575 models
- More details to come

**2018+**

**Future SP* 70 models**
- NEXT GENERATION RTUs
- Compact with I/O expansion
- Unity logic engine
- Embedded cellular modem
- Super Efficient Power Management
- SP470 – Oil and Gas – Upstream
- SP270 – Water Waste Water, Low Power
- Super Efficient

SCADAPack Coming Up...
Realflo Update
• Improved compliance – API 21.1, AGA-3, AGA-7, API 11.2/11.2, BLM
• Fill offer gaps – AGA-11 Coriolis for gas, evaluate AGA-9, AGA-10 for USM
• Minor feature enhancements, usability improvements, and bug fix

Realflo Next Gen
• Flow computation on new hardware with Unity based platform
• Improved compliance – API 21.1 section 9 - security and data integrity
• IIOT compatibility, increased globalization
O&G Wellhead & Facilities

Solution Line Focus

- Cost reduction through new enclosure design
- Expansion of portfolio with launch of the HPU and Gas Lift solutions
- Enhanced unique value proposition with new Torque Control algorithm, multiple pumps from a single controller and custom programming resource

Roadmap Highlights

RPC
- New Torque Control algorithm that matches the performance of downhole control with less initial hardware and installation investment
- New small form factor enclosure
- Availability of 2\textsuperscript{nd} SCADAPack programming resource for custom applications
- Control of multiple pumps from a single controller

HPU
- Brand new solution for controlling and optimizing Hydraulic Stroking Units manufactured by Kudu/Schlumberger

PCP
- Maintenance releases with bug fixes and small incremental new features

Gas Lift
- Brand new solution for the control and optimization of single well Gas Lift production
WWW Networks

Solution Line Focus

- Fully configurable Lift Station Solution that requires no programming software
- Maximizing uptime and energy efficiency while enabling predictive maintenance
- Enable SI’s/OEM’s with management platforms, and end users with services offerings

Roadmap Highlights

RealStream Lift Station
- Builders kit aimed at SI’s and OEM’s
- Uses Edge Management Gateway
- Offers cost effective solution that offers large efficiency gains

WWW Edge Gateway Platform
- Connected, secure, local historian that offers configuration and application plugin platform

RealStream Pump Station
- Will be built on the platform developed for the Lift Station
- Extensive re-use of code and libraries will decrease development time
- Highly customizable solution that will offer the right mix of framework and flexibility
Questions?