SENSORS FOR FOOD AND LIFE SCIENCES

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Lessons Learned Applying SaaS in the Food and Dairy Market

Paperless Process Recorder with Legendary™ Cloud Software

Cloud-Based Industrial Controls

"In today's data-centric landscape, organizations are under increasing pressure to find the right technology to support data requirements across their businesses. Industrial organizations know that major change is required if they are to thrive against a backdrop of geopolitical challenges, increased costs, global competition and distributed workforces. Digital transformation holds the key to achieving a paradigm shift in how teams work together and how operational activity is delivered.

To achieve the change needed, organizations must ensure they have a robust, yet agile, data-driven culture and framework from which to drive their digital journey."   Source: Aveva

Organizations experiencing benefits from cloud-based solutions in manufacturing

- With benefits like remote management and monitoring; Customers are using industry-proven, advanced components and solutions to focus on and achieve faster, more reliable business outcomes or accelerate the capacity to change (become more agile);

- Free up internal resources to focus on achieving competitive differentiation instead of commoditized activities or ease the way for migration of industry-specific legacy solutions to the cloud.

- Realize a faster time to market for new products, services, business capabilities, and use cases.   Source: Deloitte

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Top challenges from cloud-based solutions in manufacturing

- Security

- Dependance on internet connectivity

- Data privacy concerns

Paper Chart Recorder: Record Management Workflow
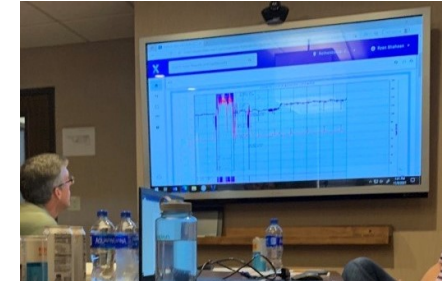

Paper Recorder Operations & Maintenance		Quality PCQI Paper Record Approval Workflow	
➤ Time to Install & check chart Print Performance	➤ Time troubleshooting recorder performance & failure issues.	➤ Time collecting & sorting charts	➤ Physical workflow to move paper records from approval stage to storage.
➤ Care in writing legible event annotations	➤ Requires experience + product specific knowledge & skills.	➤ Checking chart print quality and physical condition	➤ Time dedicated for "Audit Readiness"
➤ Extra care required to conserve chart quality in wet environment	➤ Critical spare parts inventory	➤ Time printing and attaching relevant documentation	
➤ Tracking inventory of consumable parts (Charts & Ink cartridges)		➤ Physical movement of records to next stage approval review.	

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PPR Recorder: Record Management Workflow with Legendary Software

Securely Stores the Records in a Single Location

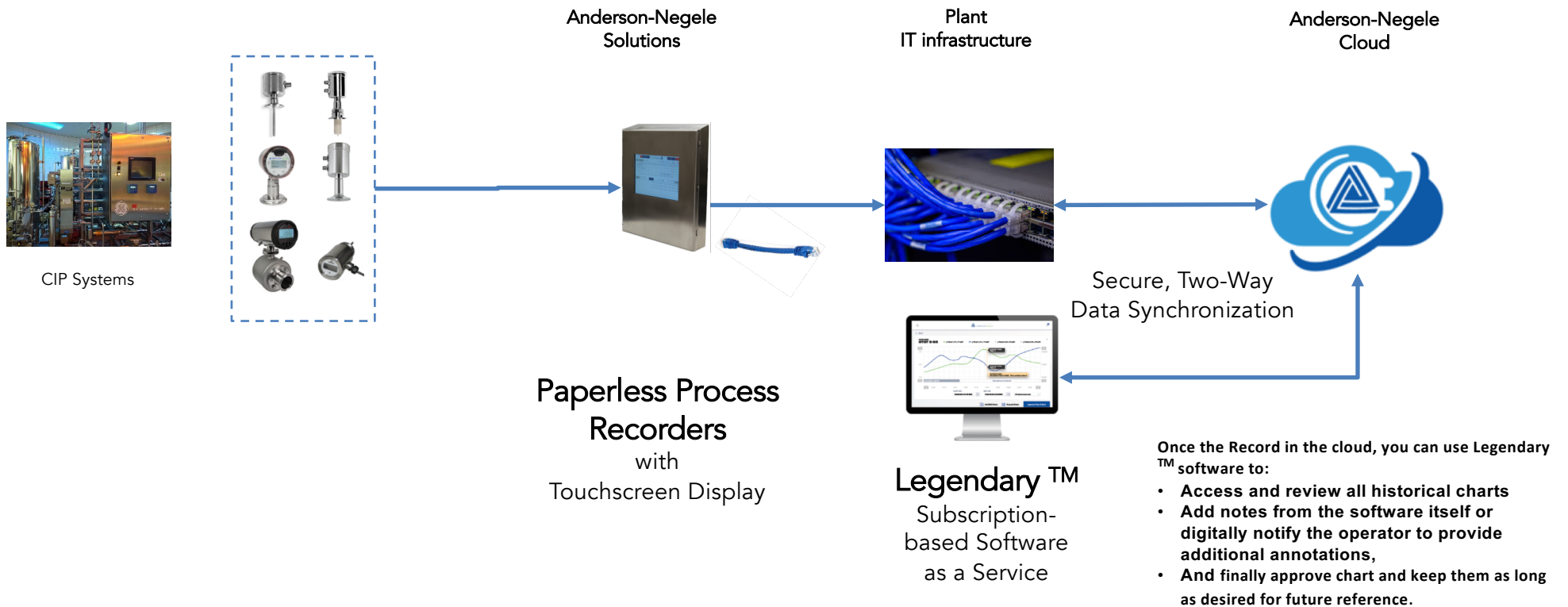| Operations & Maintenance		Quality PCQI – PPR Record Approval Workflow	
➤ User friendly intuitive interface ➤ Drop down menu of simple preprogrammed customized annotations ➤ Access to on device "Task List" ➤ Eliminates consumable parts.	➤ Simple programming steps ➤ Intuitive menu driven configuration setup ➤ New Tech training is simple and fast ➤ Eliminates need for critical mechanical spare parts inventory	➤ Remote access to all digital records ➤ Legible digital records ➤ Remote messaging for additional or missing record information ➤ Record review and approval workflow captures and updates record stage & revision.	➤ Sort records by plant, process line, or unit. ➤ Search records by specific date ➤ Option to provide State inspector remote access to digital records AUDIT READY ✓

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Creating a Legal, Digitalized Workflow

Anderson-Negele
Solutions

Plant
IT infrastructure

Anderson-Negele
Cloud

CIP Systems

Secure, Two-Way
Data Synchronization

**Paperless Process
Recorders**
with
Touchscreen Display

Legendary ™
Subscription-
based Software
as a Service

Once the Record in the cloud, you can use Legendary
™ software to:
• **Access and review all historical charts**
• **Add notes from the software itself or
digitally notify the operator to provide
additional annotations,**
• **And finally approve chart and keep them as long
as desired for future reference.**

Digital Recording Example: Dairy Transportation.

Problem to be solved:

Experience with preparing for installation

Unexpected value realized over time

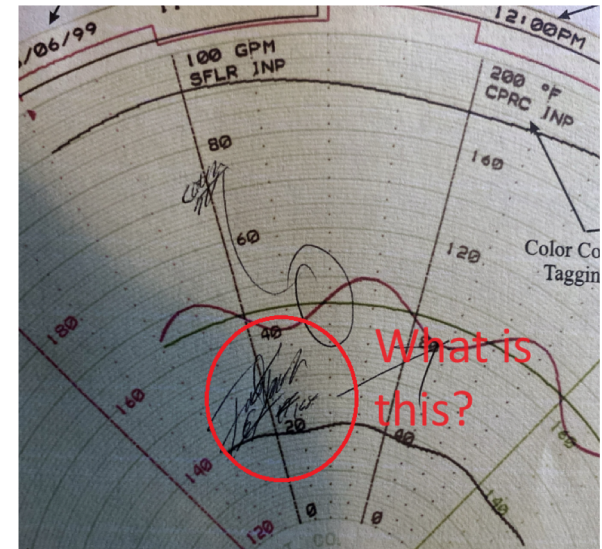Lessons learned to sustaining SaaS in this application

Digital Recording Example: Writing on the paper chart.

Problem to be solved:

Experience with preparing for installation

Unexpected value realized over time

Lessons learned to sustaining SaaS in this application

Digital Recording Example: HELP!

Problem to be solved:

Experience with preparing for installation

Unexpected value realized over time

Lessons learned to sustaining SaaS in this application

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Current state of PPR

- 3-year observation of PPR success and challenges

- Thoughts on the future of PPR and customer priorities

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Questions