Mobility and Portability with Today's Rockwell Software

Improve productivity for every industrial worker
THE CONNECTED ENTERPRISE
CONNECTED DEVICES

MONITOR & INTERACT WITH IIoT DEVICES, IMPROVE PLANT HEALTH

- **Detect** your smart devices, automatically
- **Digitize** the data, allowing work to be done
- **Analyze** the data, perform calculations, transform the data
- **Act** on information, get to the right people, on the right device

Immediate value delivered as an Industrial Appliance; Self-contained and FactoryTalk Cloud aggregation options
MAINTENANCE ON THE MOVE
Mobility and Portability

How Can Rockwell Automation Help You?

- Who will your users be?
- What do they need to do?
- What devices will they use?
- Explore your options.
- Design considerations to make when going mobile.

How Can Rockwell Automation Help You?
What problem are you trying to solve?
Who are your users?

- **ENGINEER**
  - Creates or maintains content

- **OPERATOR / LINE SUPERVISOR**
  - Control room or operator station
  - Access mobile information when away from fixed HMI

- **MAINTENANCE ENGINEER**
  - Access information when troubleshooting or repairing equipment

- **PLANT ENGINEER**
  - Needs to achieve production goals

- **PLANT IT**
  - Designs the network infrastructure and computer maintenance

- **MANAGEMENT / EXECUTIVES**
  - Monitoring of production levels, system status or uptime / downtime info
What kinds of devices will be used?
What will they want to do?
MOBILITY IS GREAT, BUT WHAT ABOUT MY NETWORK?

<table>
<thead>
<tr>
<th></th>
<th>Needed for device connectivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant network</td>
<td>?</td>
</tr>
<tr>
<td>Internet</td>
<td>?</td>
</tr>
</tbody>
</table>

NOW WHAT?
BUT WHAT ABOUT MY NETWORK?

https://www.rockwellautomation.com/rockwellsoftware/applications/factorytalk-teamone.page
Exploring Mobile Options

Standard Clients
- Tablet PC

Thin Clients
with ThinManager

Web Clients

Mobile App
Use A Windows Tablet

Strengths

- Full client functionality, just like a PC
- Supports all Windows desktop applications, like any laptop
- Easy HMI client install
- Typical desktop screen size – no screen modifications
- On the corporate network*

Considerations

- Another PC to maintain
- On the corporate network*
- More expensive to replace

But is this really mobile?
Exploring **Mobile** Options

- **Standard Clients**
  - Tablet PC
- **Thin Clients**
  - with ThinManager
- **Web Clients**
- **Mobile App**
Using Remote Desktop Services

- Remote Desktop Server with FT View SE Client Installation
- Desktop computers are replaced with thin client computers that communicate to Remote Desktop Server
- Thin clients do not have to be a PC – they can also be any supported mobile device
ThinManager® Is…
The Global Leader for Industrial Thin Client Management & Mobility

Software Platform
Secure, centralized configuration and delivery of applications and content to every PC, thin client, mobile device and user

Simplifies Device Management
Increases safety & security with visualization & authentication features to help reduce your maintenance & downtime

Built-in Mobility Solution
Relevance® allows applications and content to be securely delivered to mobile devices at specific locations within your facility
ThinManager Securely Delivers Content

**Content Types**

- PanelView
- FTView
  - Studio 5000
  - MES Data
  - ERP Systems
- Web Content
- IP Camera
  
  ...AND MORE!

**Delivery**

- Devices
  - Apple
  - Android
- Users
  - User X
  - Group X
  - Role X
- Location

ThinManager provides secure configuration and delivery of content
Why Use ThinManager for Thin Clients?

1. Ease of use
   - No local configuration of thin client required
   - Admin console and terminal to terminal shadowing
   - Industrial thin clients & broad touchscreen support
   - Extensibility with ActiveX control

2. Reduce Downtime
   - Automatic Remote Desktop Server failover
   - Redundant networking options at thin client
   - Aggregate multiple content sources at 1 terminal

3. Improve Operational Efficiencies
   - OT-Centric solution designed for the plant floor
   - Visualize content with tiling & virtual screening
   - IP/USB Camera integration
   - Location-based mobility (Relevance)

Configuration Wizards
Easily select the functionality you need without any coding.

Quick Replacement
Most ThinManager thin clients can be replaced by anyone in under 2 minutes without any loss of data.
Importance of Operator Location

Operator Single Sign-On

THINMANAGER

FactoryTalk® View
Exploring Mobile Options

Standard Clients
Tablet PC

Thin Clients
with ThinManager

Web Clients

Mobile App
FactoryTalk ViewPoint
Web Enabled Visualization

- Securely access, enter data, and control your FactoryTalk View applications from a web browser
- No client software to install or maintain
- Real-Time and Historical Trending
- Support for iOS and Android
Publishing FactoryTalk View Content

Create
Using FactoryTalk View Studio

Publish
Using FactoryTalk ViewPoint Publishing Wizard

View
Using your web browser
FactoryTalk ViewPoint Mobile

FactoryTalk ViewPoint 10.00 Feature Information

Visit the online ViewPoint demo!
http://ra-1-view.cloudapp.net/FTVP/

Welcome to FactoryTalk ViewPoint 10.00
Web-Enabled Visualization

Visit ViewPoint Mobile: Mobile Demo
A customized mobile experience, using the existing HMI application as a starting point. Graphics are optimized to keep the aspect ratio of your mobile device.

Available December 2017

Or click here to visit the traditional webpage demo: Traditional Demo

Navigate through published screens

Web access to application content using traditional screen navigation

For more information about FactoryTalk ViewPoint click here to visit the product website!
Responsive design display for mobile devices
Mobile Alarm View

OVERVIEW
- See alarms published to ViewPoint in an interface optimized for mobile devices
- Visual indication of active alarms
- Enhanced Mobile Web interface
- Quick Filter
- Sort

BENEFITS
- Alarm table optimized for mobile devices with no additional work – mobile alarm view is built into the framework.
- Responsive phone & tablet interface
- Complete alarm details
**Acknowledge and/or Shelve Alarms**

**OVERVIEW**
- Acknowledgement of alarms from web client
- Shelving of alarms from web client
- Access controlled by FT Security settings

**BENEFITS**
- Operators and maintenance personnel do not have to be at an operator station to act on an alarm – they can take the alarm list with them!
Overview

- Receive browser notifications when there is a new alarm, as long as the browser is open or minimized

Benefits

- Keeps a user informed, even if the browser is minimized
- Follows standard browser-configured behavior, no special plug-in or connections needed
Mobile Alarm History

Overview
• See FTAE alarm history on your web browser through ViewPoint Mobile interface
• Shows up to 10,000 historical events

Benefits
• Allows user to analyze alarm history from any FTAE Historical database defined in the system.
• Easy configuration of time span
• Quick filter by string entry
Alarms: Notifying you when there’s a problem

Hello Steven, this is the WIN-911 Alarm Notification system. Please enter your Authorization Code.

1...2...3...#

You have 1 new message. Chlorint Level is HiHi as of 6:03 AM
Exploring Mobile Options

Standard Clients
- Tablet PC

Thin Clients
- with ThinManager

Web Clients

Mobile App
Human Data

Device & Alarm Data

FactoryTalk® TeamONE™

Download on the App Store

GET IT ON Google Play

Rockwell Automation
Download and setup in minutes
Get Device Status Instantly

Overview
• Connect directly to CIP devices to get status information

Benefits
• Diagnose and monitor devices without the need for a PC server, gateway, or OPC server.
Trend Data Directly from Devices

Overview
• Connect directly to CIP devices to trend important information
• Currently supported: PowerFlex 525 & 755

Benefits
• Diagnose and monitor without the need for a PC server, gateway, or OPC server.
Search Knowledgebase Articles

Overview
• Access and Search the Rockwell Automation Knowledgebase directly from TeamONE

Benefits
• Easy access to the Knowledgebase -- No need to exit the app or remember the URL
• Single sign-on using your TeamONE login if it is the same as your Rockwell Automation account email.
Create Incident Reports

Overview

• Create an incident report to document a problem
• Take photos or attach images

Benefits

• Share the incident with other team members via chat or save to your own pinboard.
• Collaborate together to troubleshoot and document resolution steps in the incident.
• Quickly reference back to past incidents and increase your own productivity.

Machine 4 Red Stack light
I think the drive needs reset. I did a trend and it’s flatlined.

FLEC hvac
Problem description

Problem with mixer 4
Yellow stack light on

Operator error on pump 1
Need an electrician for panel access

Slip ring
I’m hearing the pump and it sounds odd. The CMMS system says it’s been replaced last week. But I...

Internet

Plant network

FREE
Collaborate and Investigate

Overview
• Create or join a team with colleagues so that you can share content and discuss solutions
• Define device connections once and they are available to everyone in your team.

Benefits
• Learn from and communicate with your team members in a secure environment.
• Chat with an individual team member or with a group.
• Share pictures or live links to devices or trends
• Share incident reports to team members to enable collaborative troubleshooting.
• Receive a notification when you receive a chat message.
Shelby Action Deck

Overview
• Premier integration with your Shelby appliance
• Displays the actions that need your review.
• Swipe right if the device is relevant to you; swipe left if the device is not.

Benefits
• Mobile access to the Shelby Action Deck
• Over time, Shelby learns your preferences and tweaks the Action Deck for you

EXPECTED MARCH 2018
“Hey Shelby, which drive needs maintenance?”

That’s the drive on Pump 4.
Overview

- Connect to a FactoryTalk Alarms and Events server and see alarms from one or more applications.
- Optimized mobile interface.
- Quick filter by priority, state, or application.
- See complete alarm details.

Benefits

- Quickly see active alarm states for many applications at once.
- Post and share alarms with your team to help document problems and troubleshoot.
- Future benefits coming soon!
  - Receive a notification when there is a new alarm
Be a member of multiple teams

Overview

• Create or be a member of multiple teams
• Quick switch between teams
• Receive an indication when there is activity within a team you are not currently engaged with.

Benefits

• Extends your ability to engage in multiple roles and collaborate with different people on different projects
Multi-Variable Trends

Overview

• Select up to 3 variables to trend from a single device

Benefits

• Like single variable trends, diagnose and monitor without the need for a PC server, gateway, or OPC server.
Controller Tag Values

**Overview**
- Read-only connection to controller data
- Display and trend tag values directly from a ControlLogix controller.

**Benefits**
- Monitor and trend process variables on a mobile device.
- Easier troubleshooting
- No need for Studio 5000 or a connection to data server.
Pinboard Favorite URL

Overview
• Transformation of Pinboard to My Favorites
• Add favorites directly from the module
• Add a custom URL to your favorites list.

Benefits
• Quick reference of your favorite content – no need to search through the app to find something, including Knowledgebase articles.
• Access external web content, such as user manuals, MES dashboards, or web-based HMI.
Thank You!

FactoryTalk® TeamONE™
Improve productivity for every industrial worker

www.33seconds.io