Going Mobile.

Mobile Solutions

STAYING LEAN WITH INFORMATION ‘ON THE GO’

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What’s driving the pace of change today?

Continuous cloud services

Consumer-driven experiences
Technology megatrends

**Mobility**
- 91% of organizations spent money on mobile devices in 2012
- 85 BILLION mobile apps were downloaded in 2012
- In 2012, mobile devices outpaced PCs by more than 2:1 and generated more revenue than PCs for the first time

**Social**
- Social networking now follows not just people but also appliances, devices and products
- 1/2 of companies used internal social network apps in 2012

**Cloud**
- >80% of new apps in 2012 were distributed/deployed on clouds
- The strategic focus in the cloud shifted in 2012 from infrastructure to application platforms
- 34% of CIOs say technology as a service (cloud) will have the most profound effect on the CIO role in the future

**Big data**
- 49% of CIOs rank BI as the top project priority for 2012
- Total digital content grew 48% from 2011
- 2.7 zettabytes in 2012
- 2/3 of mobile apps developed in 2012 integrated with analytics offerings
- 32% of businesses were likely to invest in BI and analytics in 2012
Going Mobile - Agenda

• Getting the Right Information to Right Person
• Mobile Revolution
• Applications for Mobile...
  • #1 Reporting – SmartGlance
  • #2 Workforce Management – IntelaTrac
  • #3 Workflow – Mobile Workflow Client
  • #4 Process Visualization – HMI on an iPad
  • #5 Real-time Alarms – Mobile 911
  • #6 GIS on your iOS (or Droid) – Mobile GIS
  • ... And wait, there’s more! Fun Applications – for Work!
We All Need Information to Do our Jobs
How do you provide mobile workers with the right information at the right time?
Facts...

75% of business users impacted by mobility

1/5 of tablets used in business in 2013

147.2 Million Tablets in business in 2015 - 50%

11,000 iPads used by United / Continental Airlines pilots on board

Tablet Sales grew 78% in 2012

Sources: Gartner, ABI Research, Forrester, Frost & Sullivan, Others
So Let’s...
Mobile Applications

Mobile Applications Provide:

The **Right Information**

At the **Right Time**

To the **Right Person**
MOBILE APPLICATION #1
Mobile Reporting and Notification

SMARTGLANCE
Mobile Reporting

✓ Historians
✓ Alarm DB
✓ HMI
✓ MES
✓ CEM
✓ CMMS
✓ IntelaTrac
✓ Well Field
✓ ‘Your Database’

SmartGlance
Real Time Mobile Dashboards

Send real time data from various products to SmartGlance

Real-time access to critical KPIs and process data via smartphones and tablets.
As good as my desktop?

**Reports** – Critical Data at Your Fingertips - Real time and historical

**Automatic Data Updates**... Data always up-to-date

**Powerful Analysis Tools:** Line Charts, Bar Charts, Pie Charts

**Compare** time frames, factories, processes

**Zoom, Pinpoint, and Analyze:**

**Share** findings with your team

**Drill down** to pinpoint a problem

**Sort, Filter & Freeze** options for excel like analytics
New Data Notifications

Receive a banner or an alert notification when a new report or data is updated.

It is a great reminder to know when new data or report comes up.

Allows to open the SmartGlance app with just a touch on the alert.
Build your own alerts

‘My Alerts’

- You can generate your own Alerts
- You can share your Alerts with another user
- Subscribe to new Alerts
Try it for yourself... for free!

- Download and Install Free SmartGlance Phone App
- Connect to ‘Demo Reports’
- Show it off 😊
MOBILE APPLICATION #2

Workforce Management

INTELATRAC
Field Operators

Fewer and fewer

Wearing more hats

Turnover, experience levels

Need tools to drive higher effectiveness
IntelaTrac – A Tool for Improving Operator Effectiveness

- Operator Rounds – Data Collection
- Equipment Inspections
- Health, Safety and Environmental (HSE) Rounds
- Security Rounds
- Built-in Contingency Actions
- Projects & Turnarounds – status tracking & procedure enforcement
- Quality Assurance – Manual data sampling
IntelaTrac

Drives Operational Consistency
- Rounds & Dynamic Procedures
- Capture and spread operational knowledge

Gain Better Insights on All Assets
- Data Collection on “Stranded” Assets
- Immediate Feedback (data history)

Leverage Operators in Reliability Efforts

Helps Managers Manage Better (w/ data)

Helps Ensure Regulatory Compliance
Decisions on the Go

MOBILE WORKFLOW
New **WORK TASKS** App, *Workflow on the Go*

**Most Plant Workers are Mobile**

- Operators, Managers, Engineers, Technicians, Maintenance Workers, Lab Workers

**NEW Work Tasks** mobile app (iPhone & iPad)

- Monitor & Execute assigned work tasks
- Great tool for managers (meetings, travel, home)
- Keeps workflows moving. Not waiting for anyone.
- Reduces delays, particularly management approvals.
Work Tasks - Key Capabilities

- View and Act on work items from your iPhone or iPad, anywhere
- Search for specific work items
- View work items based on categories
- Flag work items based on importance
- View work items even in offline mode
- Number of pending tasks pushed to mobile devices and displayed on Work Tasks icon
Work Tasks – Key Advantages

Helps Accelerate Workflows
• Less waiting for someone to approve a task

Keep Track of Critical Workflows
• List of workflows on your phone

Helps You Manage Better
• Helps you identify workflow bottlenecks
Mobile Real-Time HMI
HMI on Mobile Hardware Platforms

- Keep mobile operators fully informed of ongoing processes
- Allows remote or mobile intervention
  - Full functionality
  - Secure access
- Runs on any mobile device that supports Microsoft Remote Desktop Services (aka Terminal Services)
- Consumes a Terminal Services Session License
Operator Use Case

• The Field Operator can see the state of an equipment then operate it using InTouch on a Tablet

• He can enter information from where he is without having to move to a different place (better reliability of data)

• He can get access to the **right information in real-time** even when he is close to the machine (like a downtime reason or an alarm)
How does it work

- Connectivity achieved through Remote Desktop Sessions
- Secure access using VPN
- Access through WiFi and or 3G/4G
- Reduces the need for multiple panels in warehouse, packaging, bottling or in geographically dispersed facilities in Water, Oil & Gas, Power
MOBILE APPLICATION #5

Real Time Alarms

- Ties into your SCADA system
- Brings alarms right to your Phone or Tablet where they can be acknowledged.
- www.specterinstruments.com
MOBILE APPLICATION #6

Mobile GIS (Global Information Systems)

• Extend the reach of your GIS Systems
• Increase productivity and accuracy by updating your GIS in the field
• Most GIS Vendors support most devices
MOBILE (fun) APPLICATION

What is your Water Footprint?

‘WaterPrint’

• Calculate your daily Water Usage

• How much water does it take to ___?___

• iPhone Only

• www.waterprint.net
MOBILE (fun) APPLICATION

Fingers hurt because of all of those Apps?

‘AcheBreak’

• Repetitive Strain Injury (RSI) App
• Cartoon characters help relieve sore muscles
• Take a Break!
• www.achebreak.com
Water versus ‘Apps’

According to a 2013 Mobile App Behavior study by Apigee, 85% of the respondents said they would rather go without Water than going without their Mobile Apps.

Wow, Really?
Summary

- Mobile Technology is Here to Stay
  - Smartphones, tablets, rugged handheld computers
- The market delivers a host of mature, mobile solutions
  - Mobile Reporting
  - Mobile Workforce
  - Mobile HMI & Alarms
  - Mobile GIS
  - Mobile ‘everything!’
- The **Right Information** to the **Right Person** at the **Right Time**

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