Microsoft Integration and Business Intelligence

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Empowering Business in Real Time
PI Infrastructure for the Enterprise

Goals for Today

- Discuss what OSI and Microsoft are doing together
- Learn about Dynamic Office Business Applications
- Learn more about Microsoft Business Intelligence and how it compliments your existing efforts
- Answer Questions and Inspire Action

Building On Your Existing Infrastructure

OSIsoft & Microsoft have forged a strong relationship to drive business value for joint customers, building on existing infrastructure

PI Infrastructure
PI DataLink Client
PI DataLink Server
PI WebParts
Dynamic OBA Accelerators

+

Microsoft

SharePoint Server
Excel Services
PerformancePoint
Office 2007
SQL Server

=

BUSINESS VALUE

Saudi Aramco

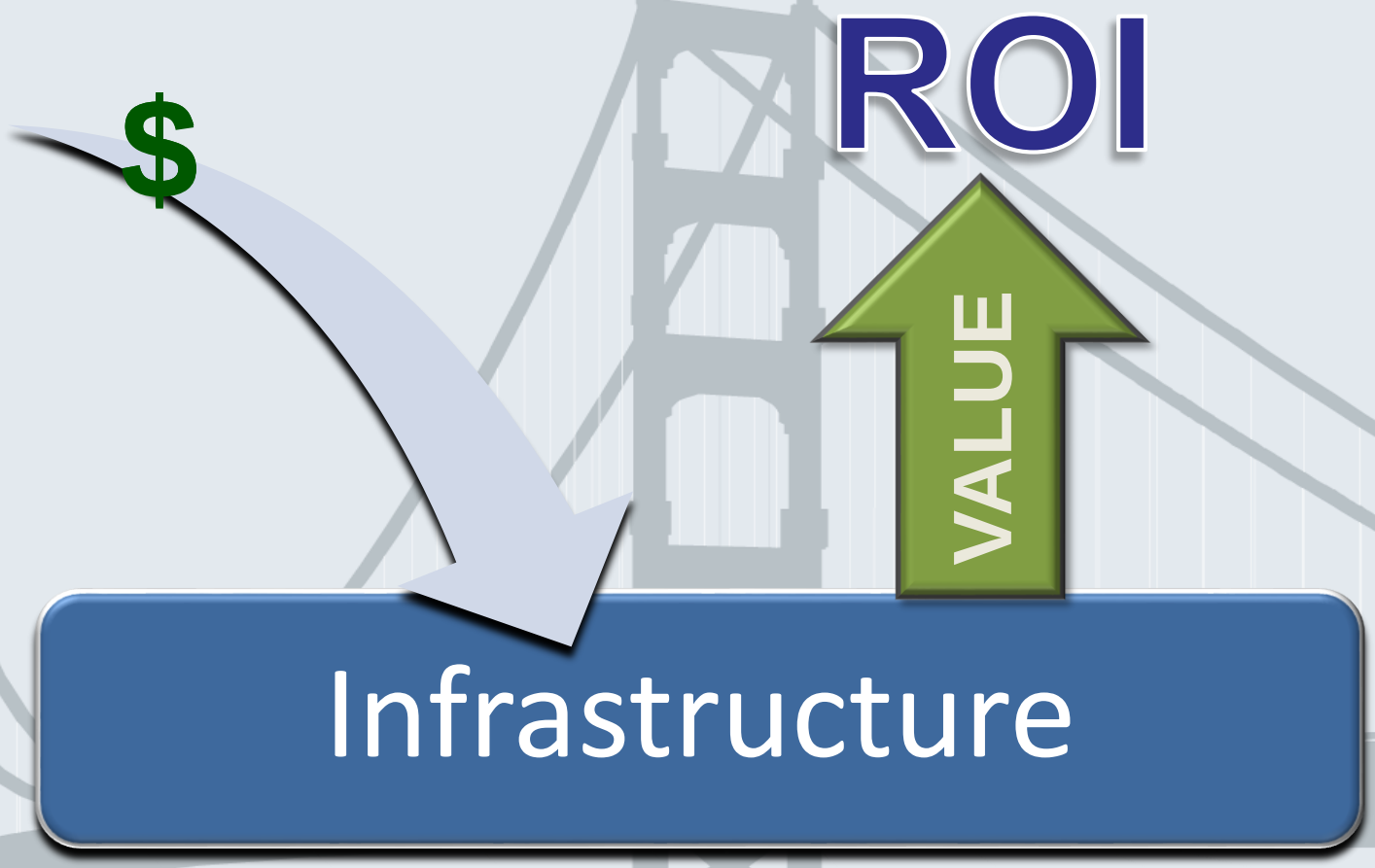
Using OSIsoft-Microsoft Integration

> “We selected OSIsoft and Microsoft to provide **real time visibility into our largest oilfield production operations.** Despite the vast complexities of our business, the **PI System and SharePoint 2007** were quickly deployed allowing my people in the field and at HQ to have real time access.”

Abdullah H. Al-Bar | Group Leader

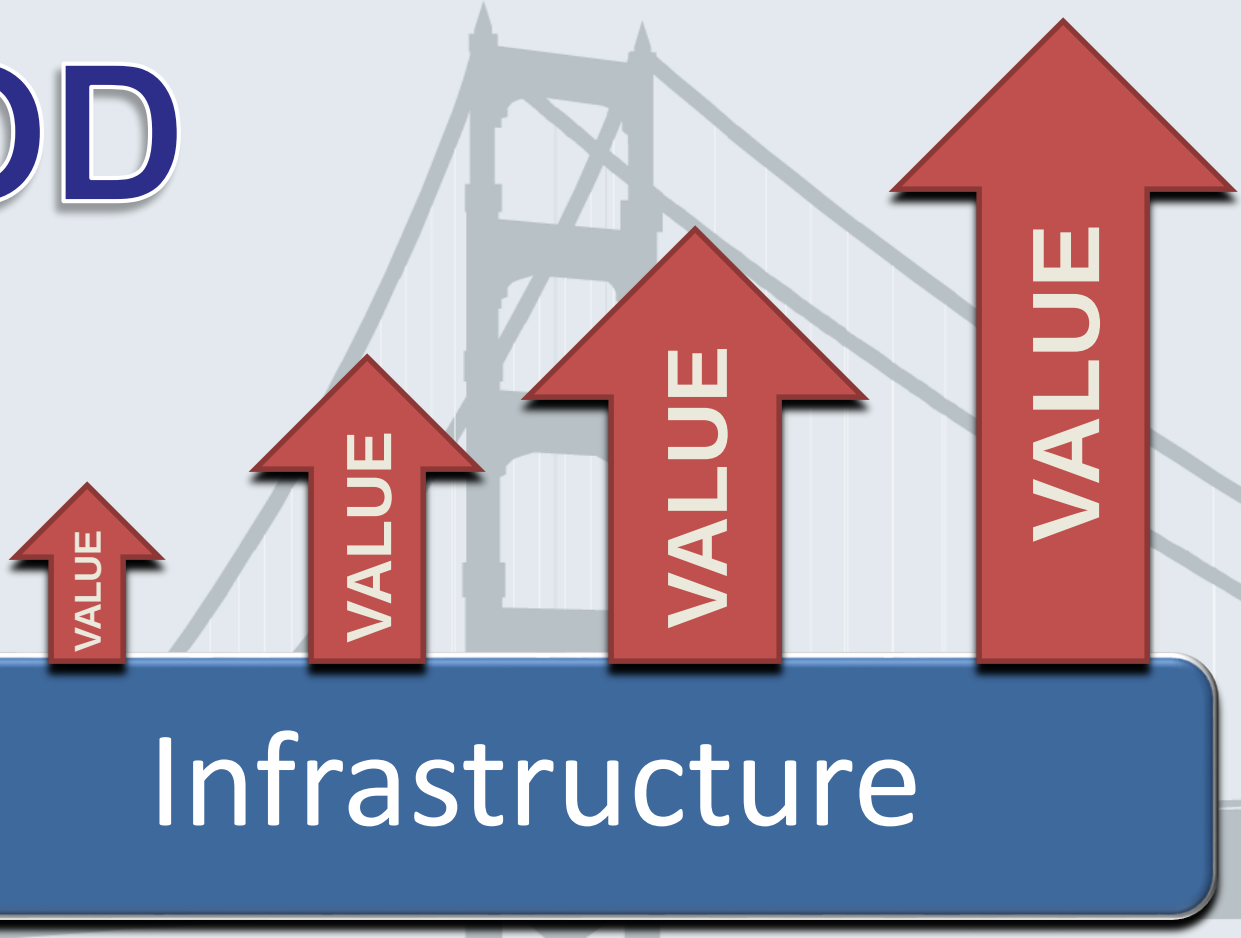
ارامكو السعودية
Saudi Aramco

Replace Your Thinking



Start Thinking "Return On Your Data"

ROD



WHAT IS AN OFFICE BUSINESS APPLICATION?

AND WHAT MAKES THEM DYNAMIC?

Enabling Dynamic Office Business Applications

Real-Time Data

Contextual Asset Data

Transactional Data

OSIsoft

Real-Time Infrastructure

PI System

PI WebParts

DataLink (DLES)

Microsoft

Familiar Office Tools & User-Defined Functions

Office

SharePoint

Excel Services

PerformancePoint Services

Forms Server

Visual Studio

Reporting & Analysis

Role-Based KPI & Dashboard

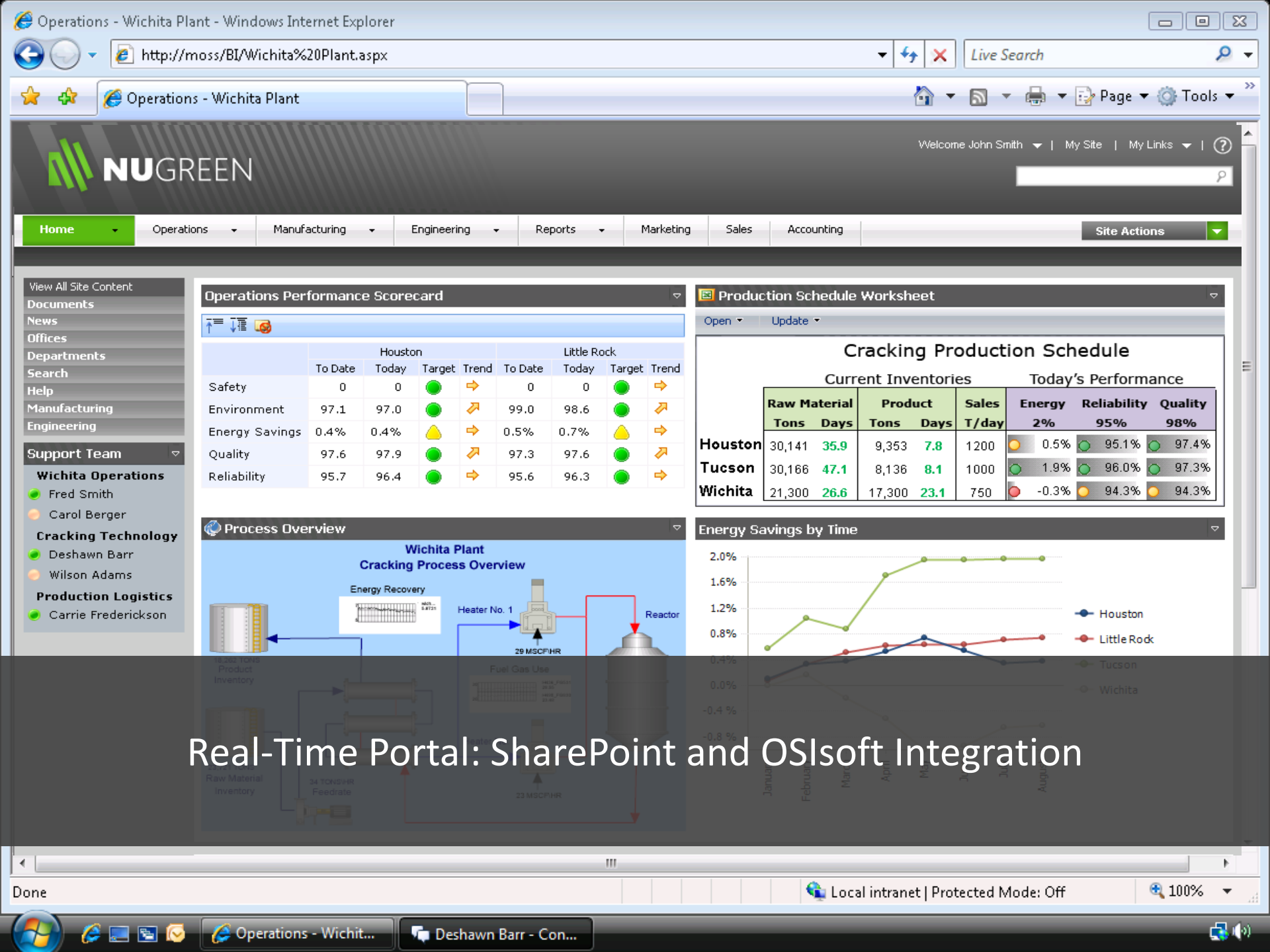
Streaming Business Intelligence

PI System Integration with MOSS

- Accelerators Available through Virtual Campus:
  - **SharePoint Web Part Pages (PI WebParts)**
  - **PI DataLink for Excel Services**
  - **Linking Excel Services to PI WebParts**
  - **SharePoint Enterprise Search**
  - **InfoPath Forms Server**
  - **SharePoint Business Data Catalog**
  - **Integration with the Business Intelligence Platform**
    - **Analysis Services and PerformancePoint Services**

Technology Integration – PI WebParts for MOSS 2007

PI WebParts Provide Instant Access to Real-Time and Historical Information Through a SharePoint Portal


Operations - Wichita Plant - Windows Internet Explorer
http://moss/BI/Wichita%20Plant.aspx
Live Search
Operations - Wichita Plant
Page
Tools
NUGREEN
Welcome John Smith | My Site | My Links
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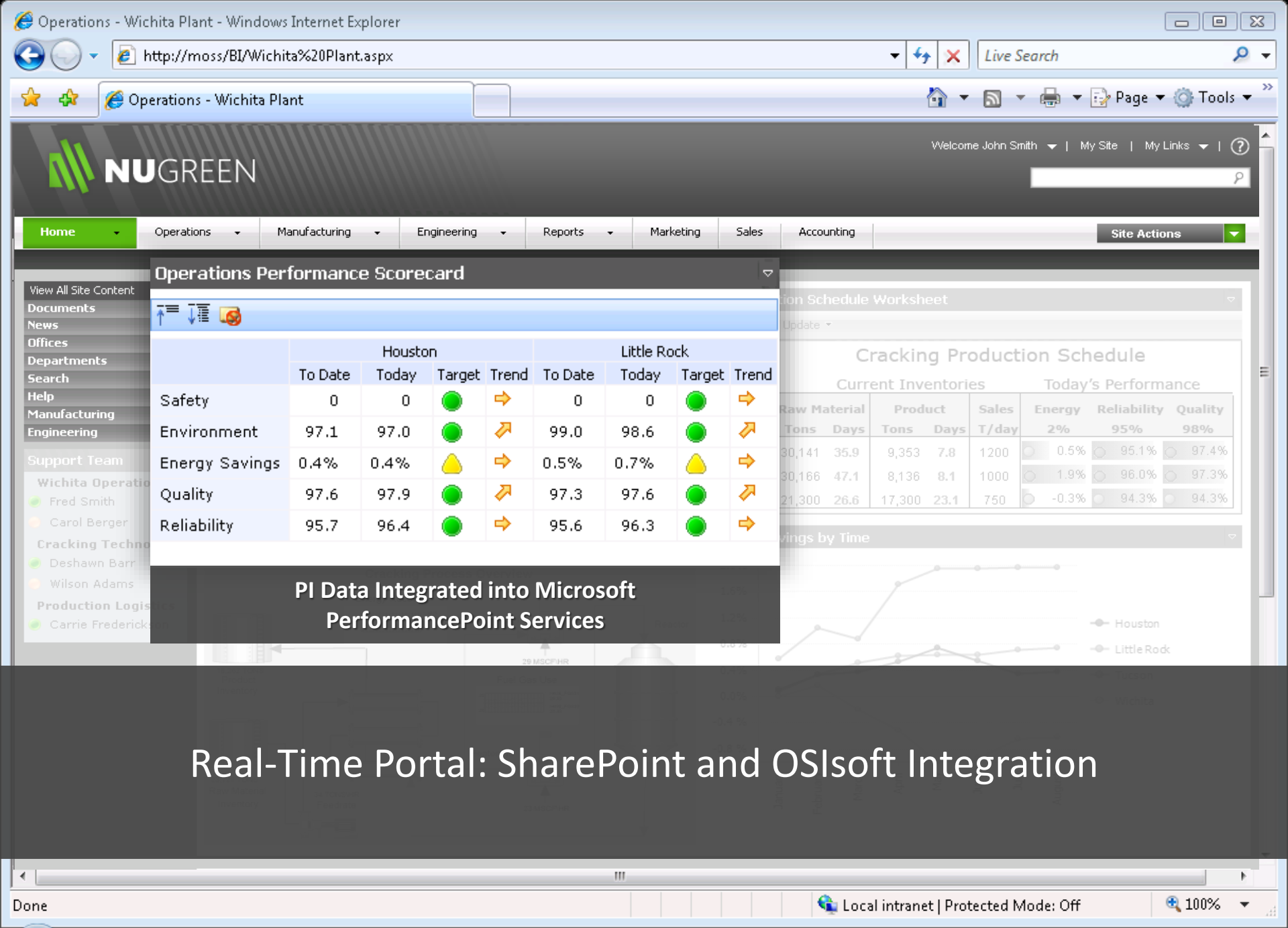
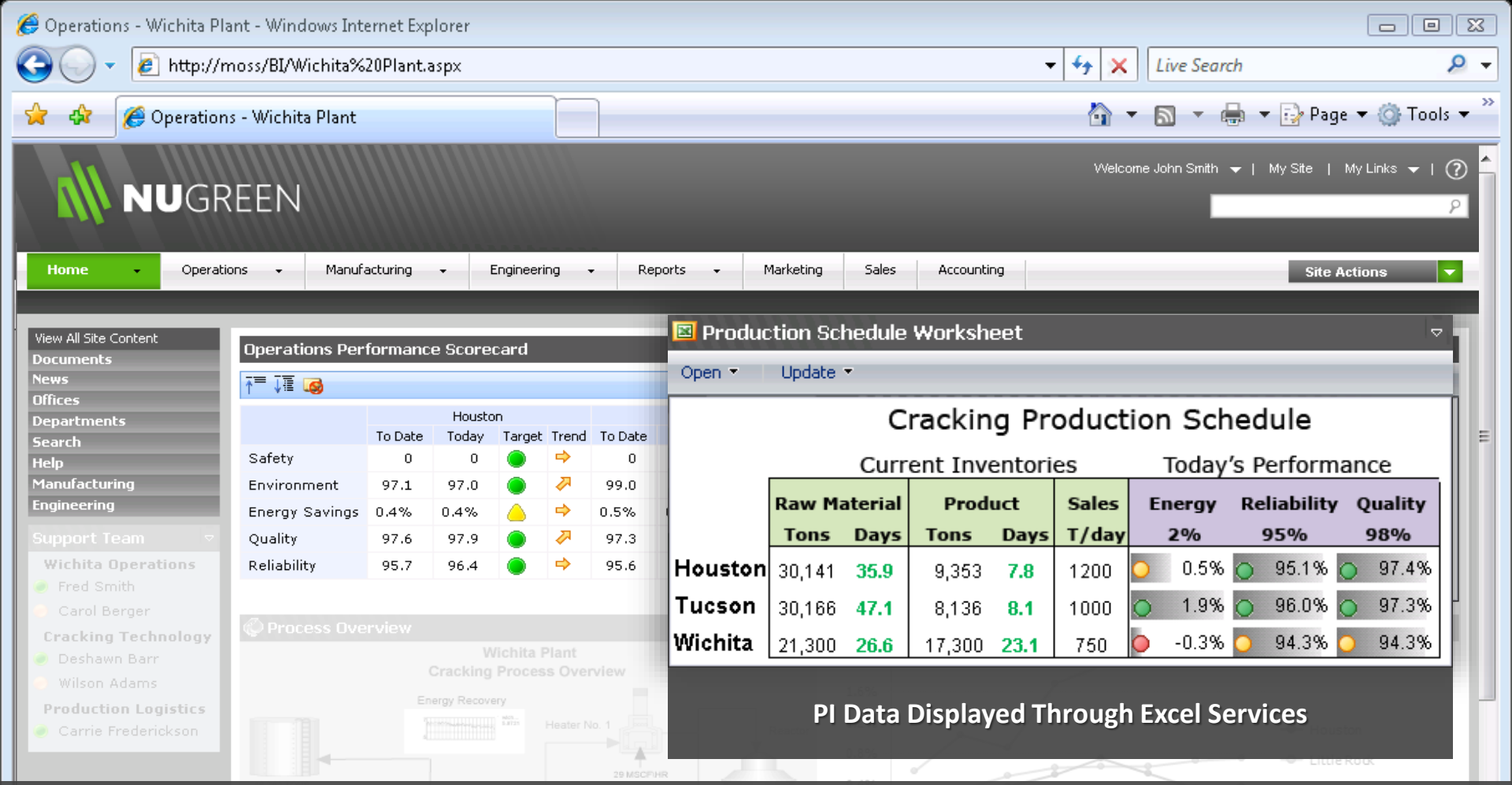
Support Team
Wichita Operations
Fred Smith
Carol Berger
Cracking Technology
Deshawn Barr
Wilson Adams
Production Logistics
Carrie Frederickson
Operations Performance Scorecard
Houston
Little Rock
To Date
Today
Target
Trend
Safety 0 0 0 0
Environment 97.1 97.0 99.0 98.6
Energy Savings 0.4% 0.4% 0.5% 0.7%
Quality 97.6 97.9 97.3 97.6
Reliability 95.7 96.4 95.6 96.3
Production Schedule Worksheet
Open
Update
Cracking Production Schedule
Current Inventories
Today's Performance
Raw Material Tons Raw Material Days Product Tons Product Days Sales T/day Energy 2% Reliability 95% Quality 98%
Houston 30,141 35.9 9,353 7.8 1200 0.5% 95.1% 97.4%
Tucson 30,166 47.1 8,136 8.1 1000 1.9% 96.0% 97.3%
Wichita 21,300 26.6 17,300 23.1 750 -0.3% 94.3% 94.3%
Process Overview
Wichita Plant
Cracking Process Overview
Energy Recovery
Heater No. 1
Reactor
29 MSCF/HR
Energy Savings by Time
2.0%
1.6%
1.2%
0.8%
Houston
Little Rock
Tucson
Wichita
Real-Time Portal: SharePoint and OSIsoft Integration
Done
Local intranet | Protected Mode: Off
100%
Operations - Wichit...
Deshawn Barr - Con...



Real-Time Portal: SharePoint and OSIsoft Integration



Real-Time Portal: SharePoint and OSIsoft Integration

Operations - Wichita Plant - Windows Internet Explorer

http://moss/BI/Wichita%20Plant.aspx

Live Search

Operations - Wichita Plant

Page Tools

NUGREEN

Welcome John Smith | My Site | My Links |

Home | Operations | Manufacturing | Engineering | Reports | Marketing | Sales | Accounting | Site Actions

View All Site Content
Documents
News
Offices
Departments
Search
Help
Manufacturing
Engineering

Support Team
Wichita Operations
Fred Smith
Carol Berger
Cracking Technology
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Operations Performance Scorecard

	Houston				Little Rock			
	To Date	Today	Target	Trend	To Date	Today	Target	Trend
Safety	0	0			0	0		
Environment	97.1	97.0			99.0	98.6		
Energy Savings	0.4%	0.4%			0.5%	0.7%		

Production Schedule Worksheet

Open | Update

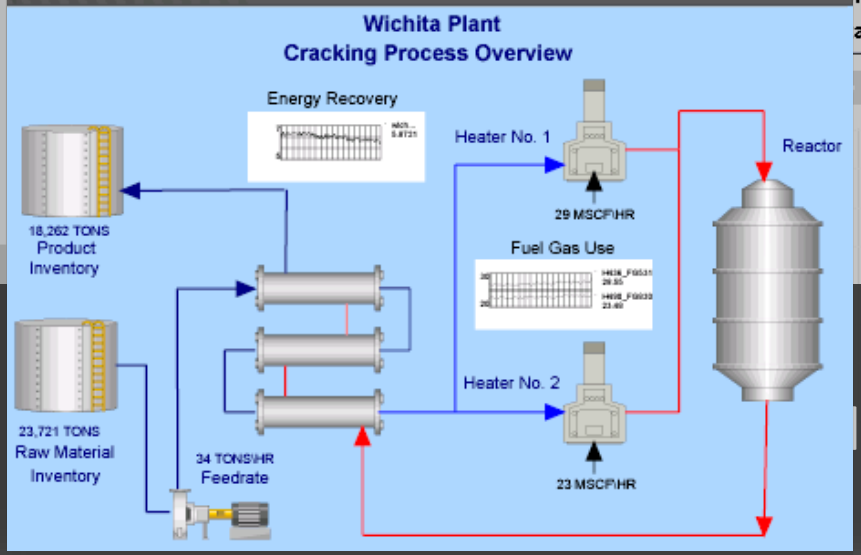
Cracking Production Schedule

	Current Inventories				Today's Performance		
	Raw Material		Product		Sales	Energy	Reliability	Quality
	Tons	Days	Tons	Days	T/day	2%	95%	98%
Houston	30,141	35.9	9,353	7.8	1200	0.5%	95.1%	97.4%
	30,166	47.1	8,136	8.1	1000	1.9%	96.0%	97.3%
	21,300	26.6	17,300	23.1	750	-0.3%	94.3%	94.3%

Savings by Time

Houston
Little Rock

Process Overview



PI Data Visualized through OSIsoft PI WebParts

OSIsoft Integration

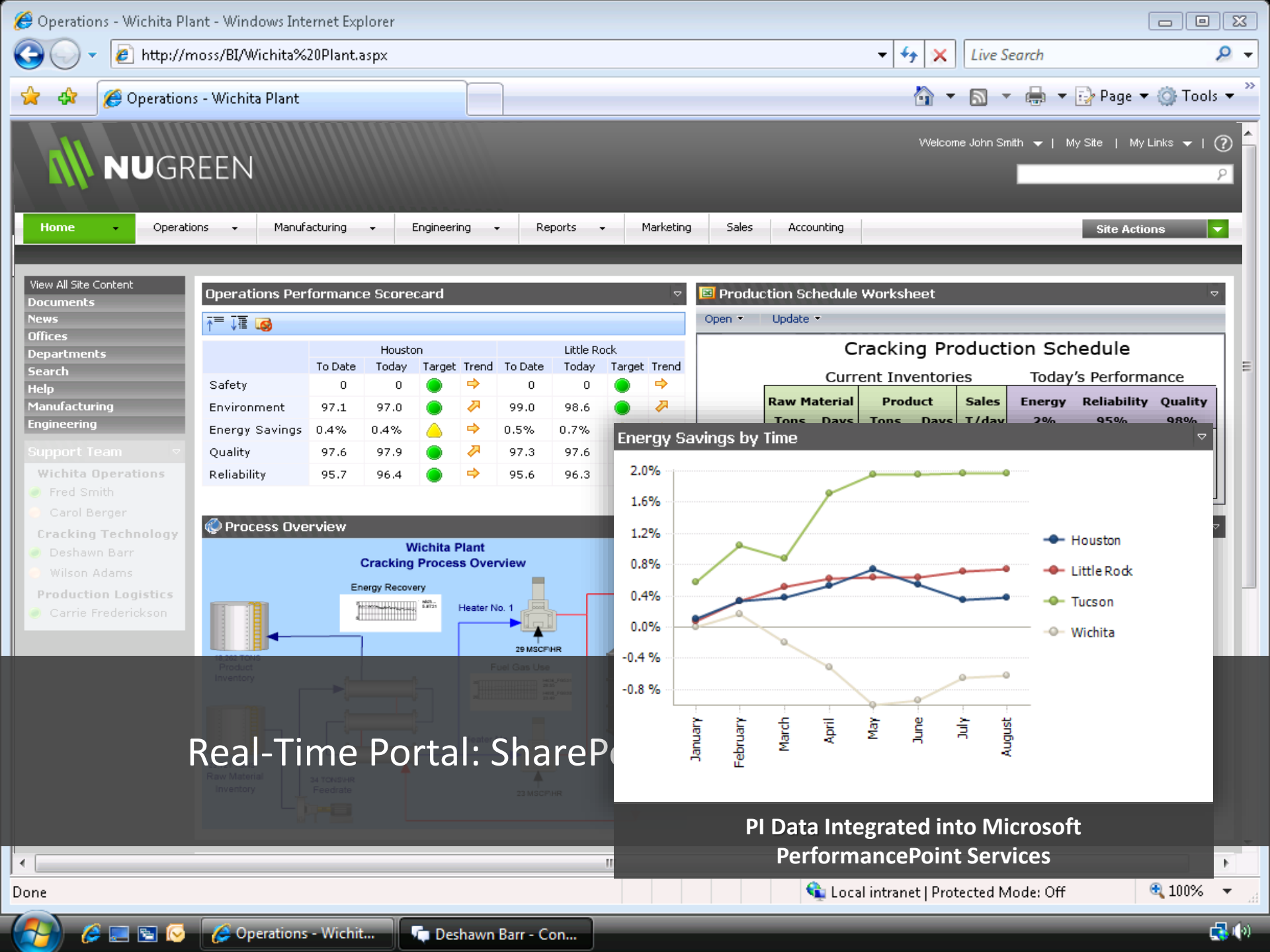
Done

Local intranet | Protected Mode: Off

100%

Operations - Wichit...

Deshawn Barr - Con...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August
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PI Data Integrated into Microsoft PerformancePoint Services
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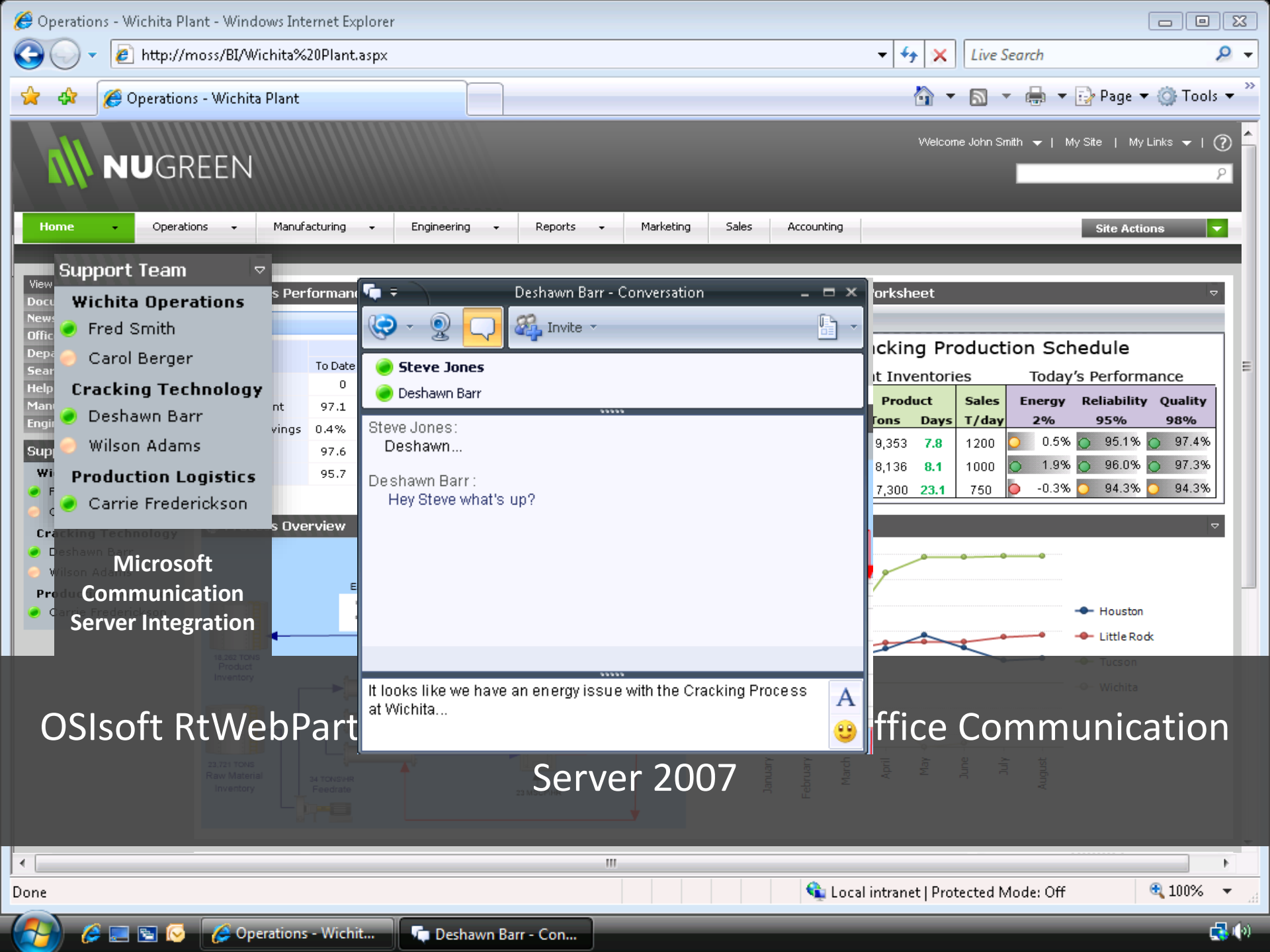
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Deshawn Barr
Wilson Adams
Production Logistics
Carrie Frederickson
Deshawn Barr - Conversation
Invite
Steve Jones
Deshawn Barr
Steve Jones:
Deshawn...
Deshawn Barr:
Hey Steve what's up?
It looks like we have an energy issue with the Cracking Process at Wichita...
Microsoft Communication Server Integration
OSIsoft RtWebPart
ffice Communication Server 2007
Worksheet
cking Production Schedule
t Inventories
Today's Performance
Product
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Tons
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96.0%
97.3%
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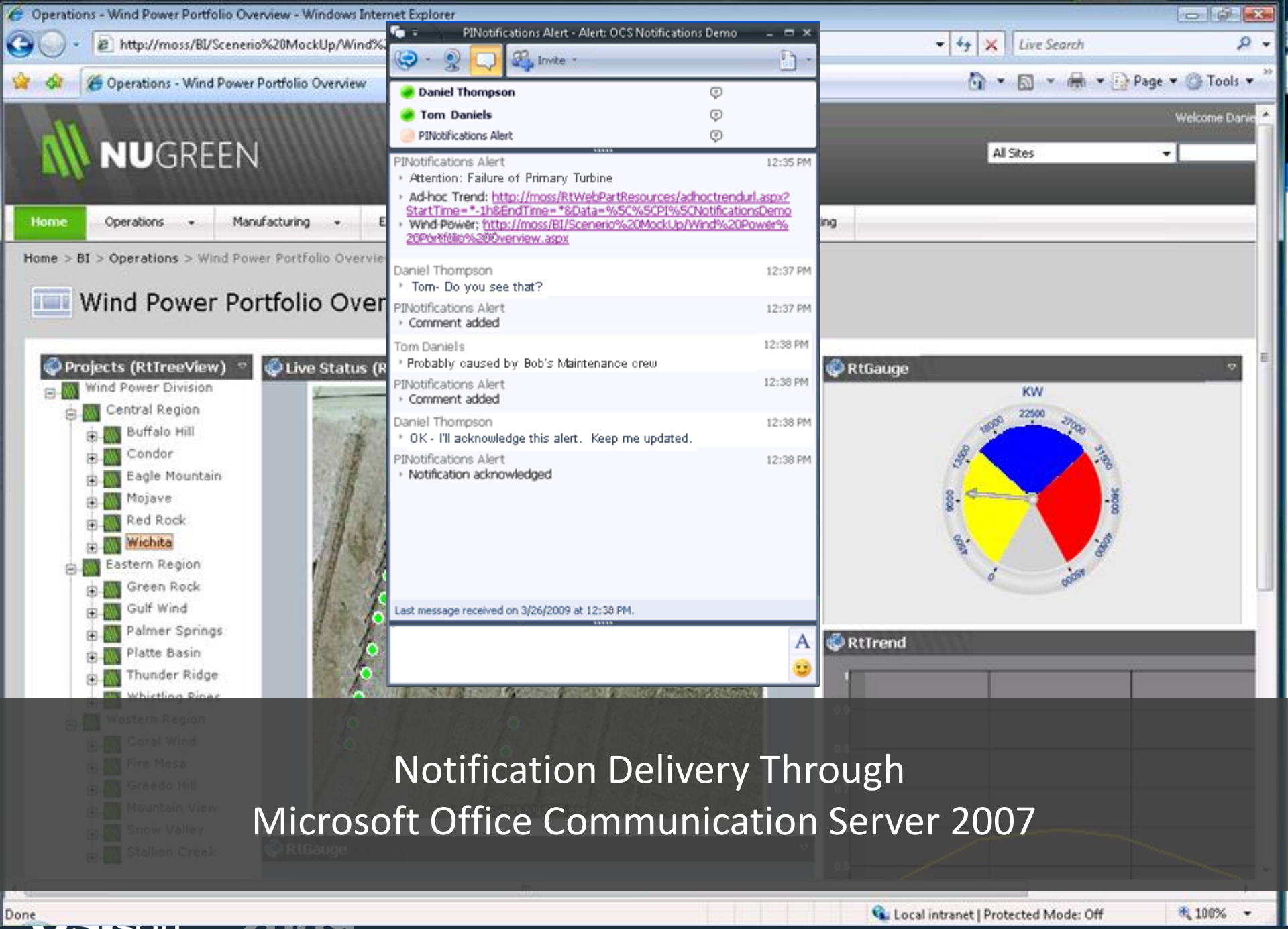

Notification Delivery Through Microsoft Office Communication Server 2007

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SQL Server

=

BUSINESS VALUE

Microsoft's People Ready Business Intelligence

Bill Koehler

BI Product Manager

People Drive Performance

Microsoft Vision & Strategy

Democratizing Business Intelligence

Improving organizations by providing business insights to ***all*** employees leading to better, faster, more relevant decisions

- Delivered through a familiar environment
- Integrated into a business productivity infrastructure
- Built on a trusted & extensible platform

Microsoft Business Intelligence

Investment Strategy

Microsoft Business Intelligence Offering

BUSINESS USER EXPERIENCE

BUSINESS PRODUCTIVITY INFRASTRUCTURE

DATA INFRASTRUCTURE & BI PLATFORM

Delivered through a Familiar Interface

- Self-Service access & insight
- Data exploration & analysis
- Predictive analysis
- Data visualization
- Contextual visualization
- Dashboards & Scorecards
- Excel Services
- Web based forms & workflow

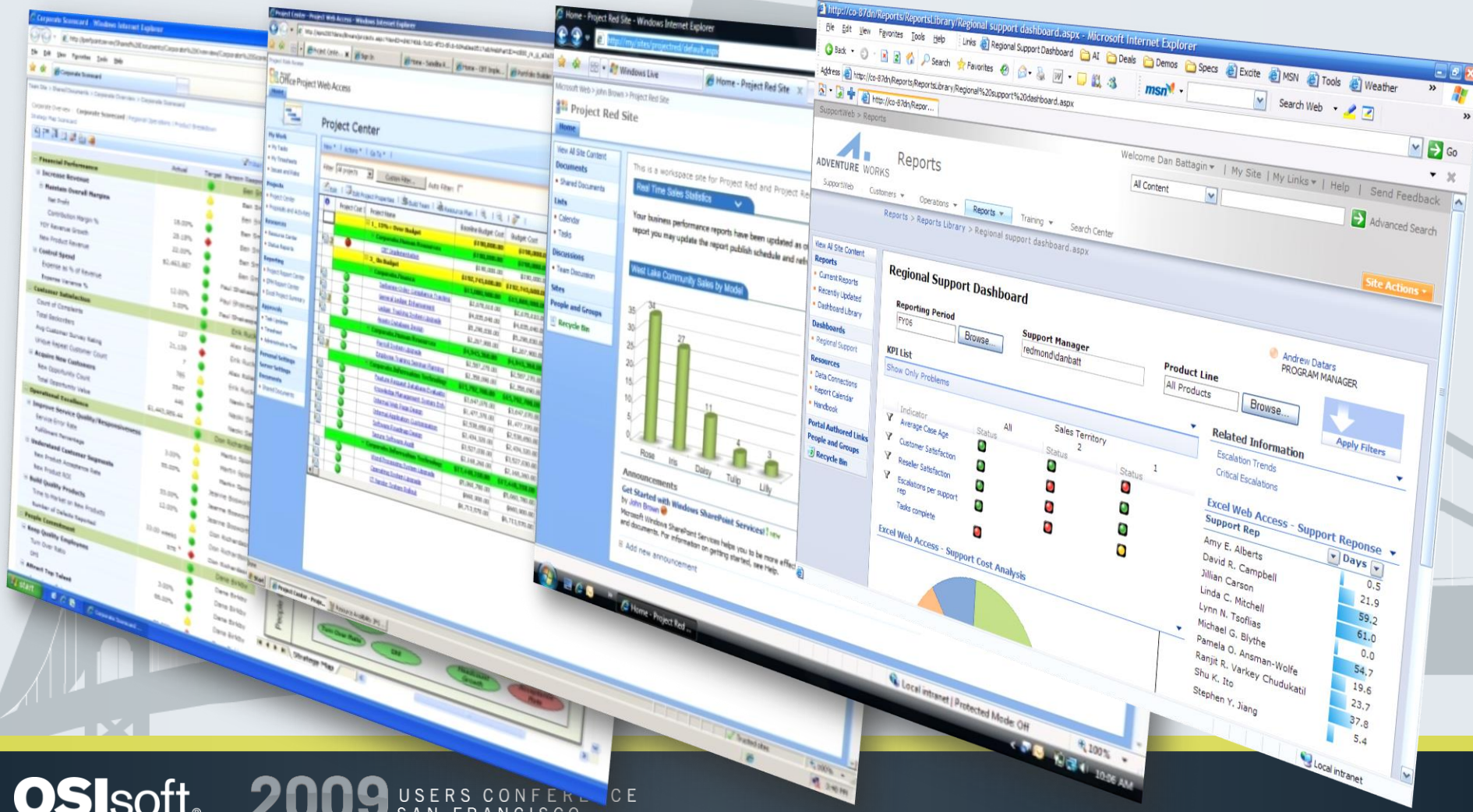
Business Productivity Infrastructure

- Analysis Services
- Reporting Services
- Integration Services
- Content Management
- Data Mining
- Data Integration
- Data Warehousing

Data Infrastructure & BI Platform

Familiar Environment Drives BI Adoption

Amplify the impact of your people with the tools you already know how to use



Microsoft's Unique Offering

Bridging the gap between end users and IT

Microsoft is uniquely positioned to bridge the needs of the Information Worker and the IT audiences.

Information Workers

Microsoft® Office

- We deeply understand IW needs
- We provide intuitive tools
- We focus on IW Productivity
- We drive pervasive adoption of tools

IT Pros. & Devs.

Microsoft® SQL Server®

- We deeply understand IT needs
- We provide robust, scalable platforms
- We focus on IT Pro & Dev. Productivity
- We deliver lowest TCO in the market

Microsoft Confidential—Preliminary Information Subject to Change

Wrap-up

Key Points to Take Home

- Microsoft | OSIsoft Alliance
  - Benefits of the OSIsoft-Microsoft Alliance
  - Dynamic OBA's
    - Building On Existing Infrastructure (R.O.D.) for VALUE NOW
    - Creating Visibility and Enabling Decision Making
- Virtual Campus:
  - Collaboration and support for PI System developers and integrators
  - http://vCampus.osisoft.com

Call to Action

- Visit the Booth in the Product Expo area
  - "***Microsoft/OSIsoft Integration***"
- Join Virtual Campus
  - www.vcampus.osisoft.com
  - Look for today's vCampus presentation online
- Get Rolling on Your SharePoint Initiative
- Contact your Microsoft or OSIsoft representative to help unlock your data

Questions