Application Development with PI System

Lee Han Yong, OSIsoft vCampus Team
OSIsoft Asia Pte Ltd
Application Development

- **Computer Science Definition:**
  “Application Development is the development of a software solution in a planned and structured process to perform tasks and speeding up business process”
Common Applications

- Condition-based Maintenance
ERP Integration

PI System to Maximo data flow
(via Maximo Integration Framework)
ERP Integration

Data Flow: PI System to SAP via MII

Lab results:
Air Permeation, Bursting strength,
Thickness, Roughness, Tearing, Density...
Integrating PI Notification and Web

The Story...
It can be done?!  

• Easy! Right???
SQC and Notifications

Putting it all together for Outstanding Process Control

- Comparing apples and apples. Not apples and oranges
- Determine when non-random variability exists
- Notify when we are unstable
- Find the root cause

PI Performance equations, PI Totalizers, etc.
PI SQC alarms
PI Notifications
PI Client Tools
References

• Using PI System Data and Events in Your Enterprise and Line of Business Systems

• OSIsoft vCampus: The Community at Your Service

• Using SQC & PI Notifications in Manufacturing, and the Value of vCampus
PI System ≠ The Solution

PI System \textit{Enables} The Solution
PI System Data Access
OSIsoft vCampus: What and Who?

• Community-oriented program that provides everything needed to build applications on PI
  – Development PI System
  – Resources
  – Support/Collaboration in various ways

• For all PI developers and integrators
  – Clients
  – Partners
  – OSIsoft
What’s In for You?

• Faster time to market
  – Resources
  – Collaboration (Others did it… others know it…)

• Closer relationship with OSIsoft
  – Developers, Product Managers
  – Get heard (Feedback → Development)

• Be the first to know
  – CTP, Beta, RC, exclusive contents
Hear from the Community Members
OSIsoft vCampus Live! 2011

• OSIsoft annual in-depth technology event
  – Mixed of presentations and hands-on session

• 30th November to 1st December

OSIsoft vCampus Live! 2011
where PI geeks meet

Palace Hotel · San Francisco, CA
Week of November 28th
Conclusion

• Developing an application on top of PI System
  ➔ Creating a solution to a challenge/problem

• OSIsoft vCampus provides the community support and resources in your journey to develop a solution based on PI System
Contact OSIsoft vCampus

• Visit our website: http://vcampus.osisoft.com

• Follow OSIsoft vCampus on Twitter: http://twitter.com/OSIsoftvCampus

• Take a “Tour” of OSIsoft vCampus: http://vcampus.osisoft.com/media/videos/Tour-of-the-OSIsoft-Virtual-Campus1.wmv

• OSIsoft vCampus: vcampus@osisoft.com
Thank you