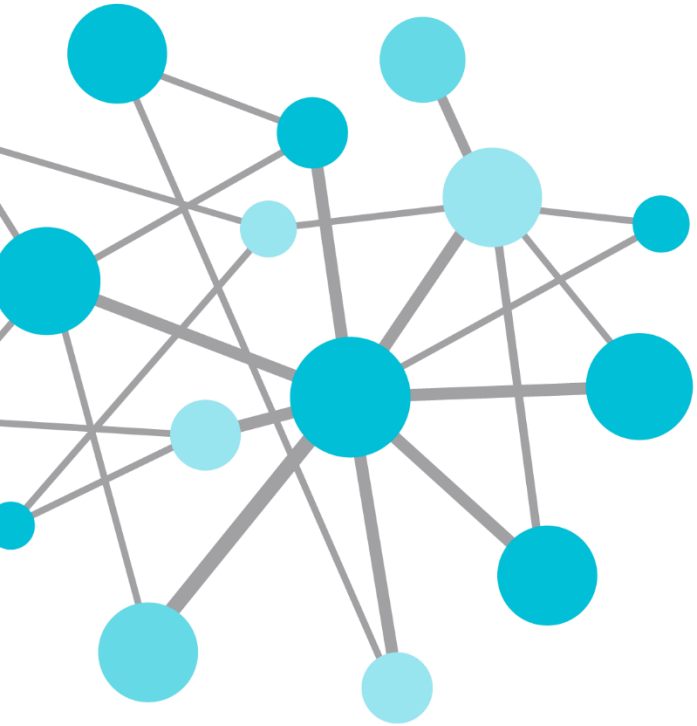

PI WebAPI and PI Cloud Access: Connecting Web and Mobile Applications to the PI System

Presented by **Hans Otto Weinhold**
Senior System Engineer
OSIsoft Europe GmbH

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USERS CONFERENCE 2014

The Power of Data

DECISION READY IN REAL-TIME

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Business Challenge

- **Knowledge workers need to access vital PI System data**
- **Non-Windows Devices and Platform accessibility are becoming more of a necessity than a luxury.**

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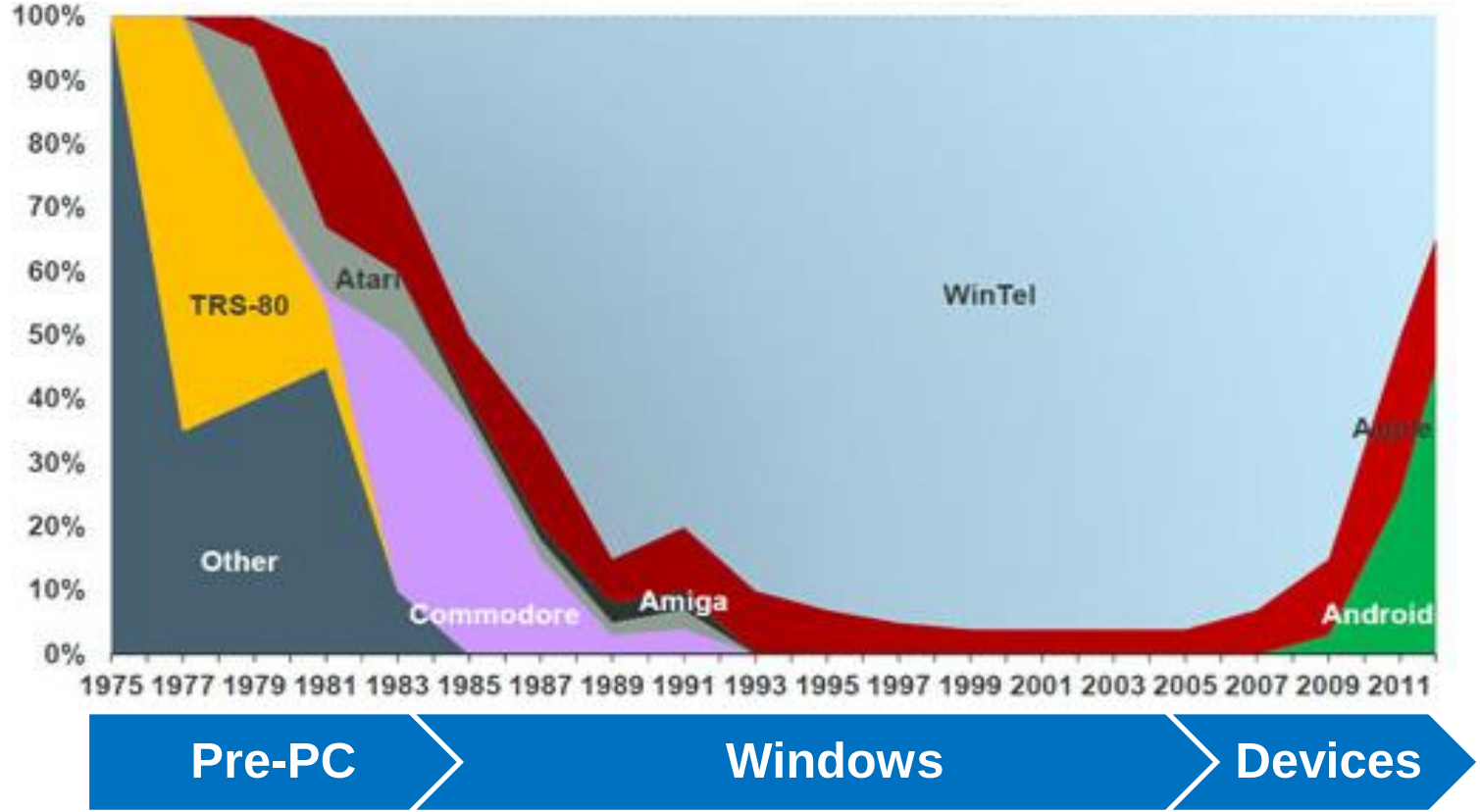
Adoption of Devices



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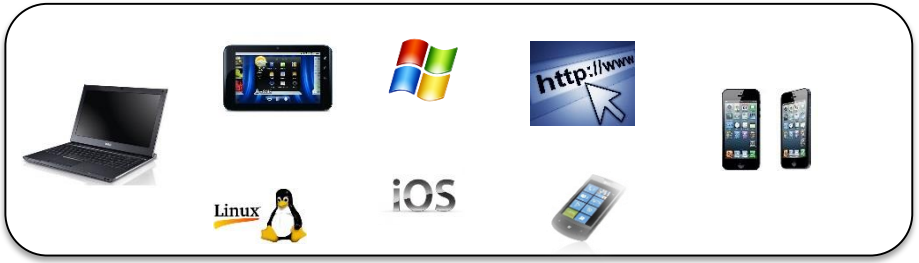
Business Challenge Rephrased...

We need to connect applications running on these devices and platforms ...



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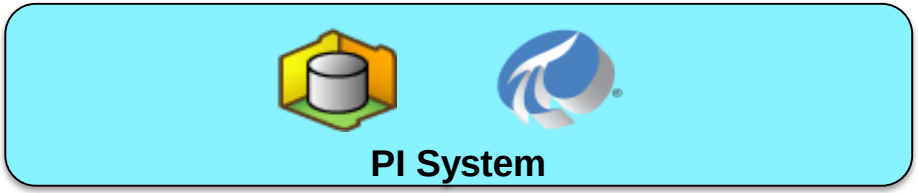

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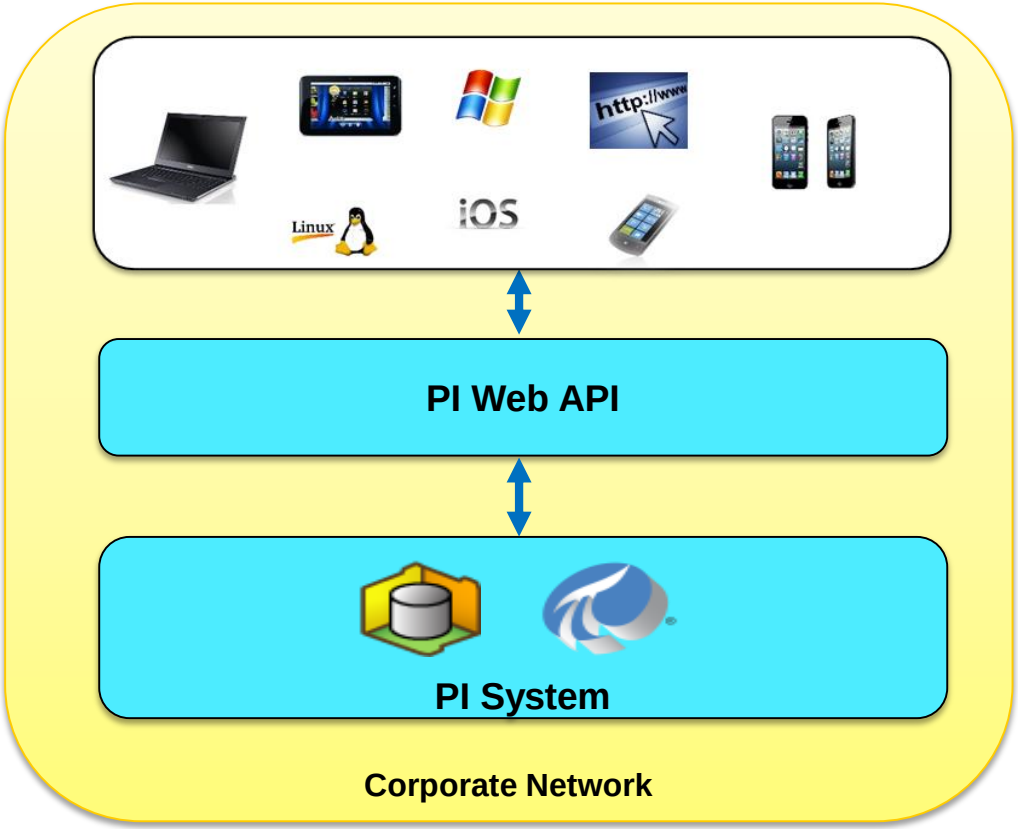
Enter PI Web API



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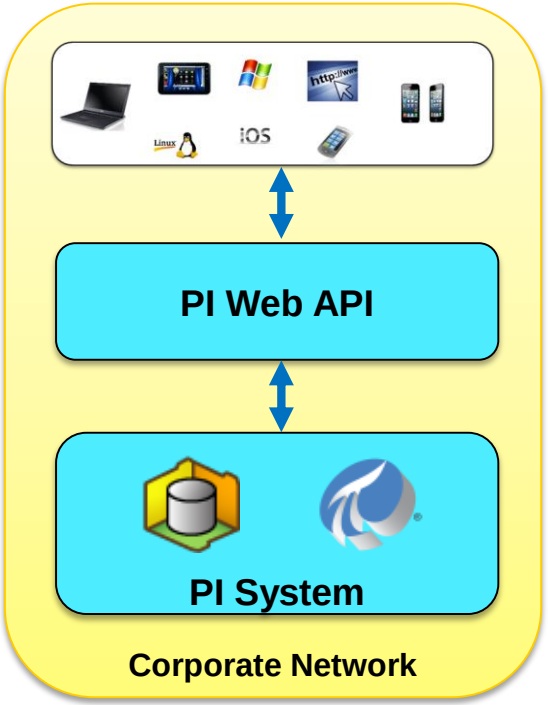
What is PI Web API?

- Developers build platform independent applications to access the PI System
- Device and OS independent
- Programming language neutral



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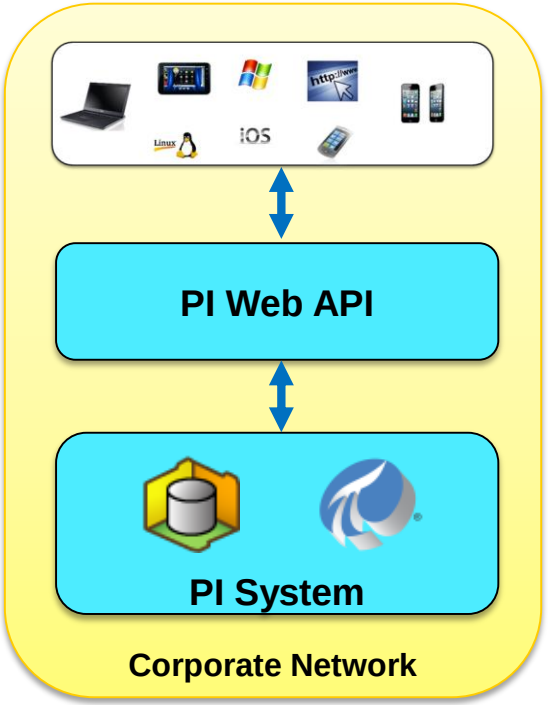
What Types of Applications?

- Supports broad range of scenarios
- Manual data entry, dashboards, custom data analysis, etc.
- OSIsoft
  - PI Manual Logger
  - PI Coresight
  - Etc.!



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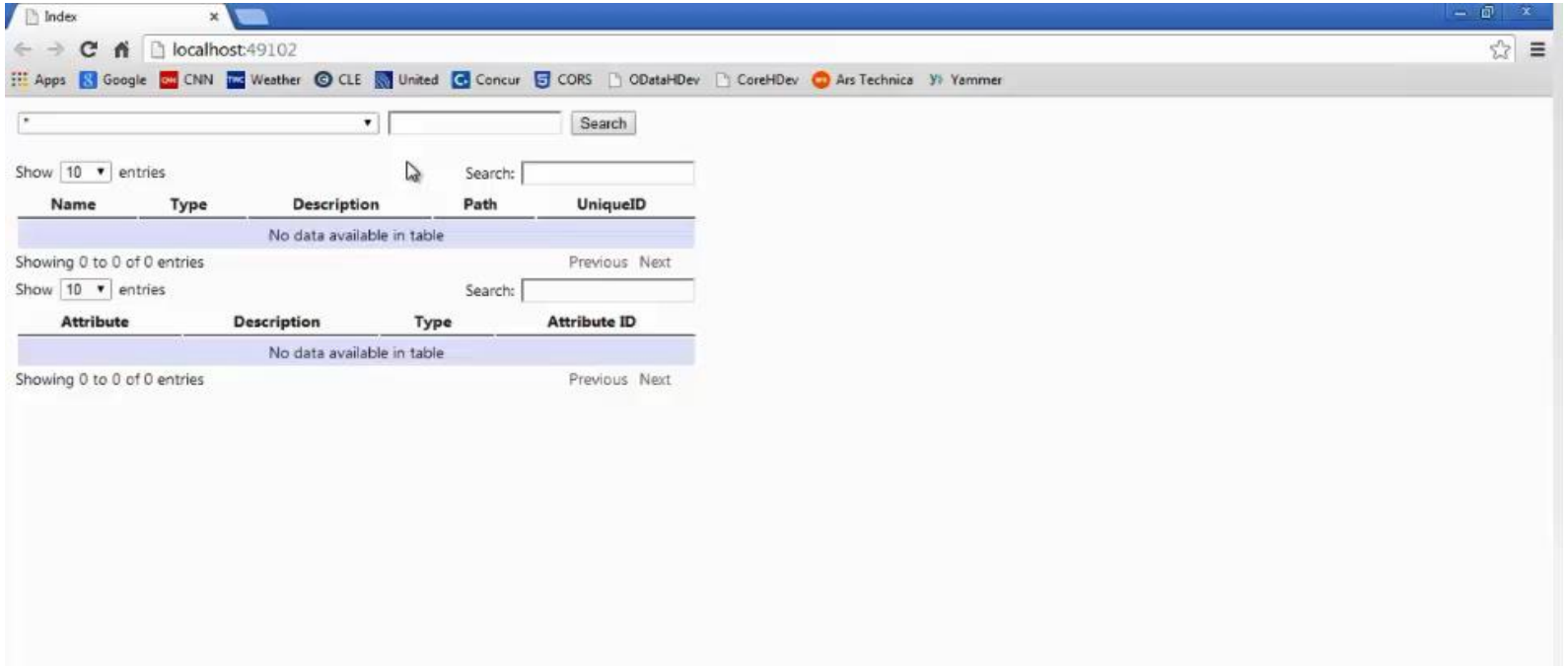
Web Application



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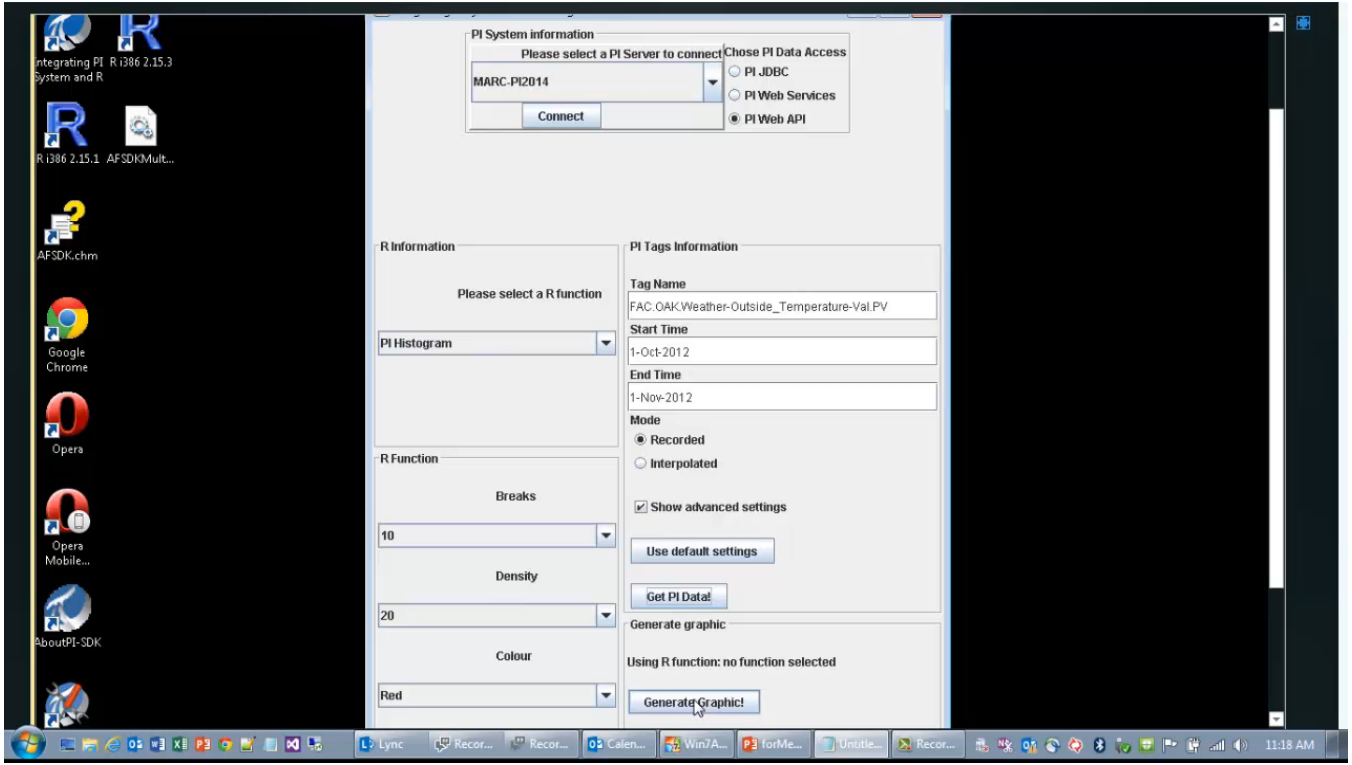
Java Application



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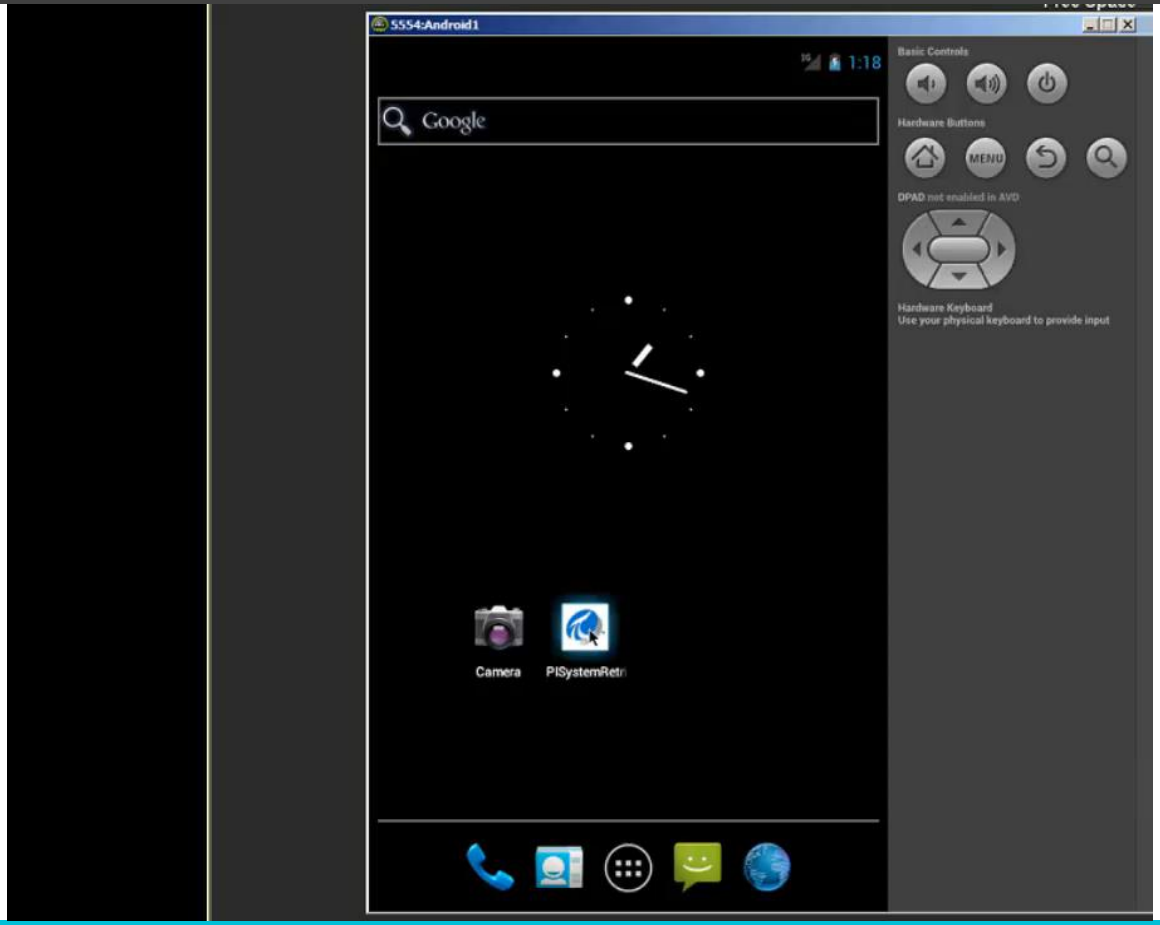
Android



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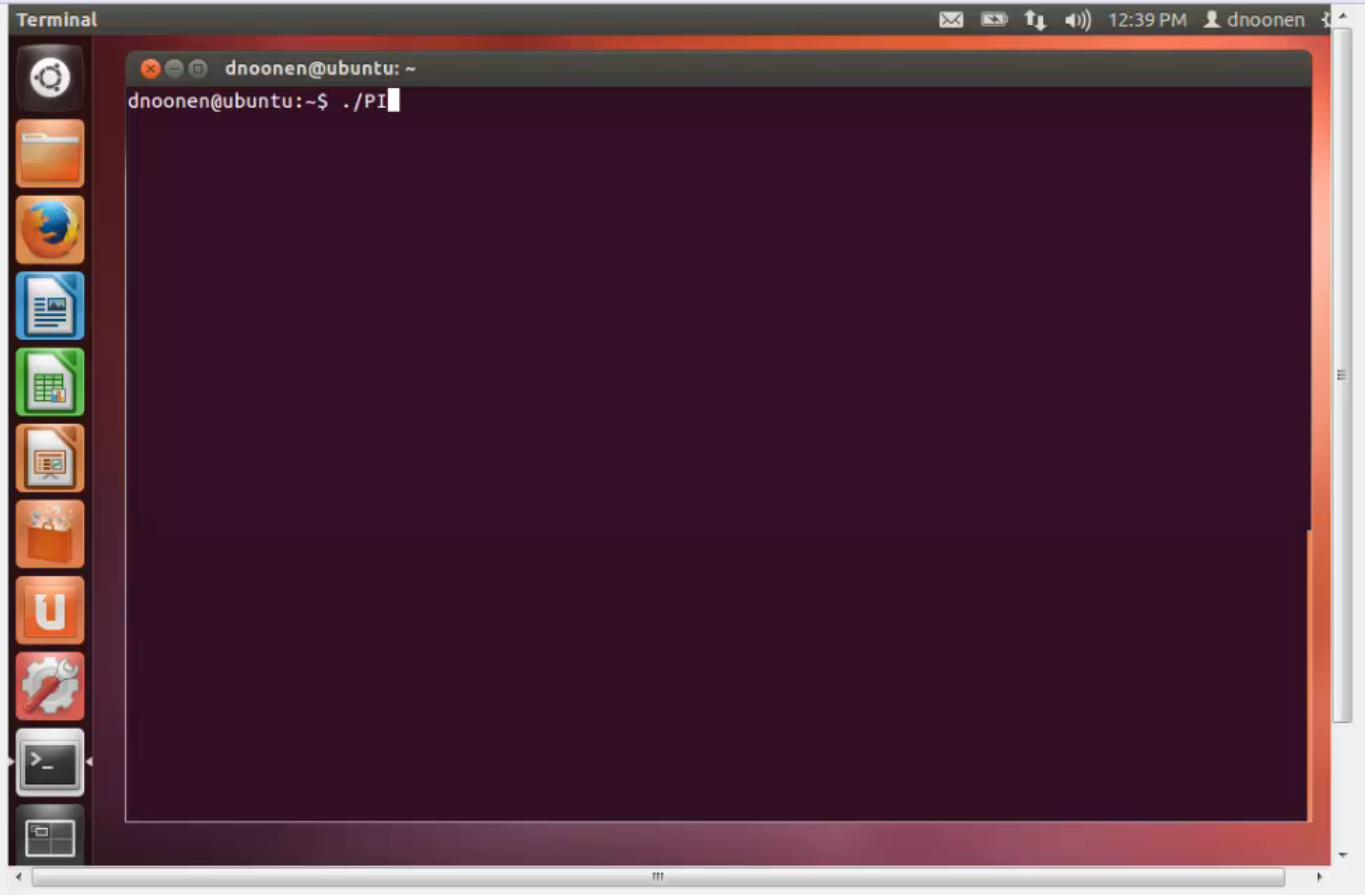
Ubuntu Linux



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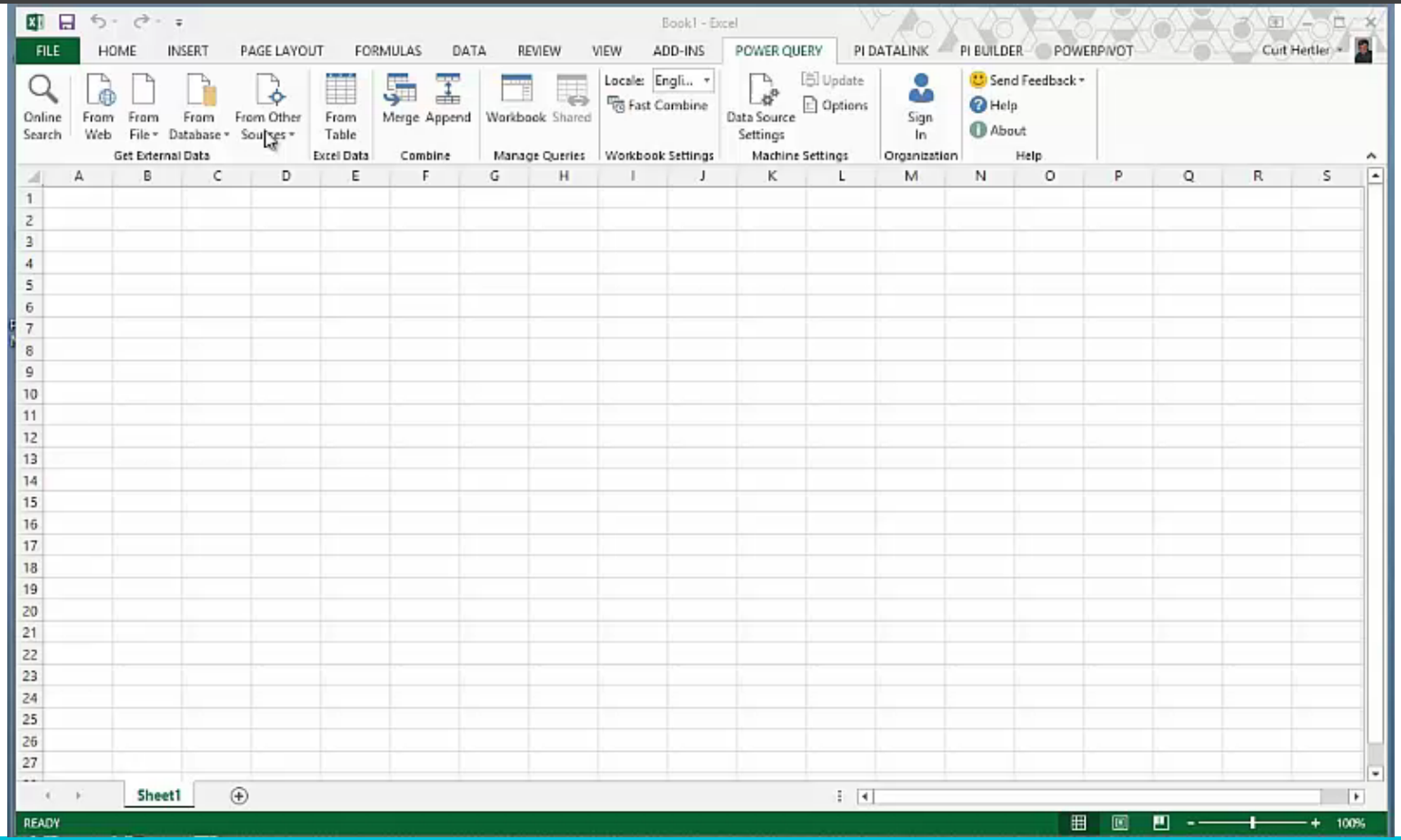
Power Query



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Windows 8 Application

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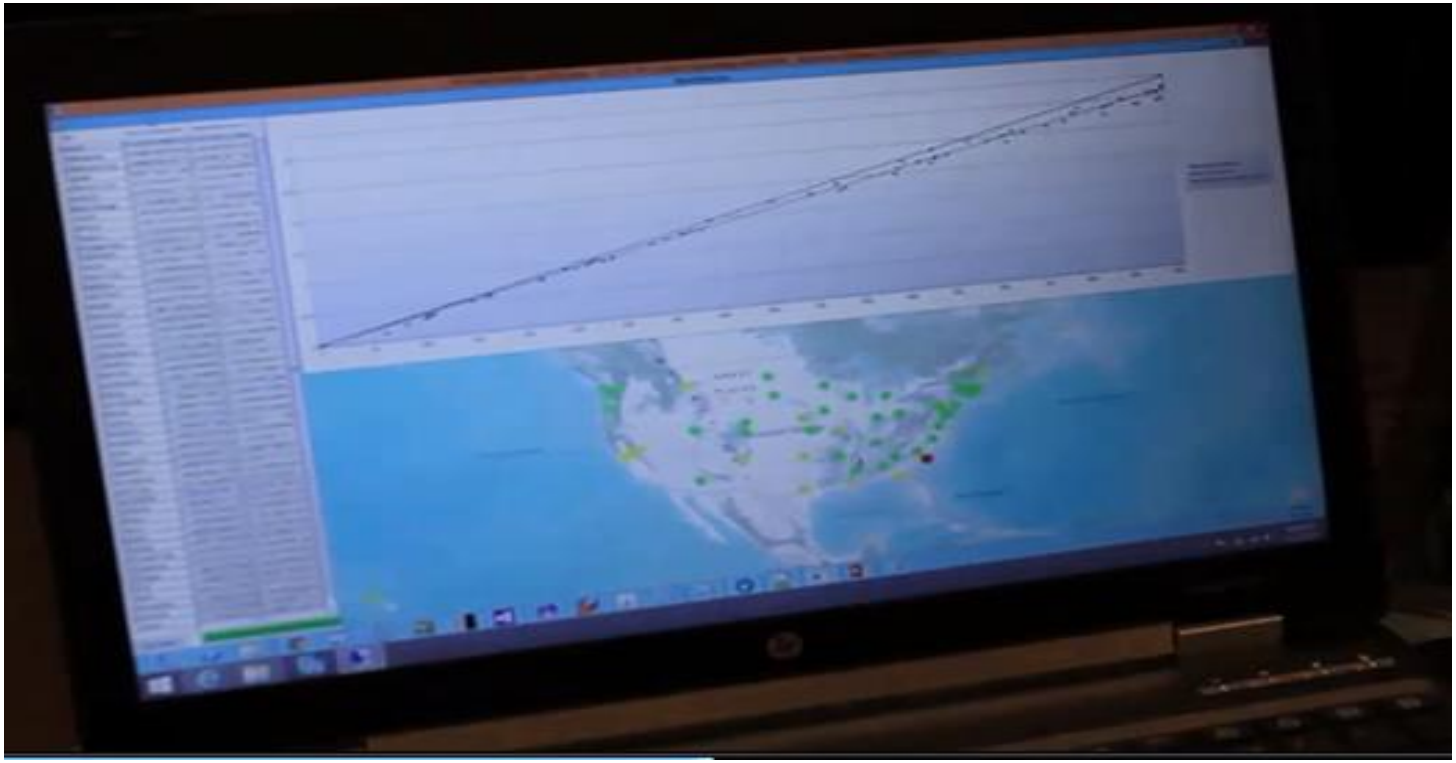
vCampus Live Hackathon Winner



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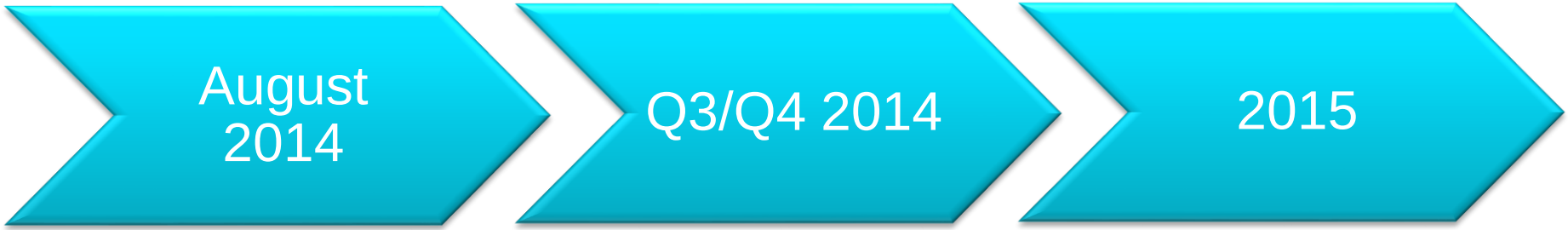
PI Web API Roadmap



- Initial General Availability release

- Feedback from users
- Second Release with additional functionality

- PI WebAPI OData
- More Feedback from users
- Feature parity with other PI System Access mechanisms

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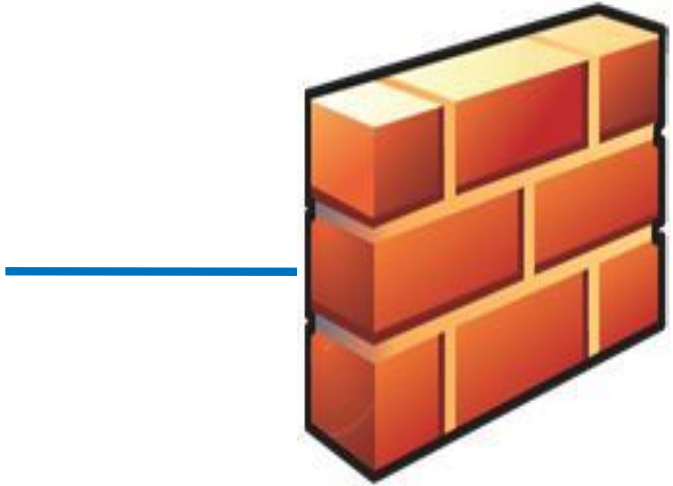
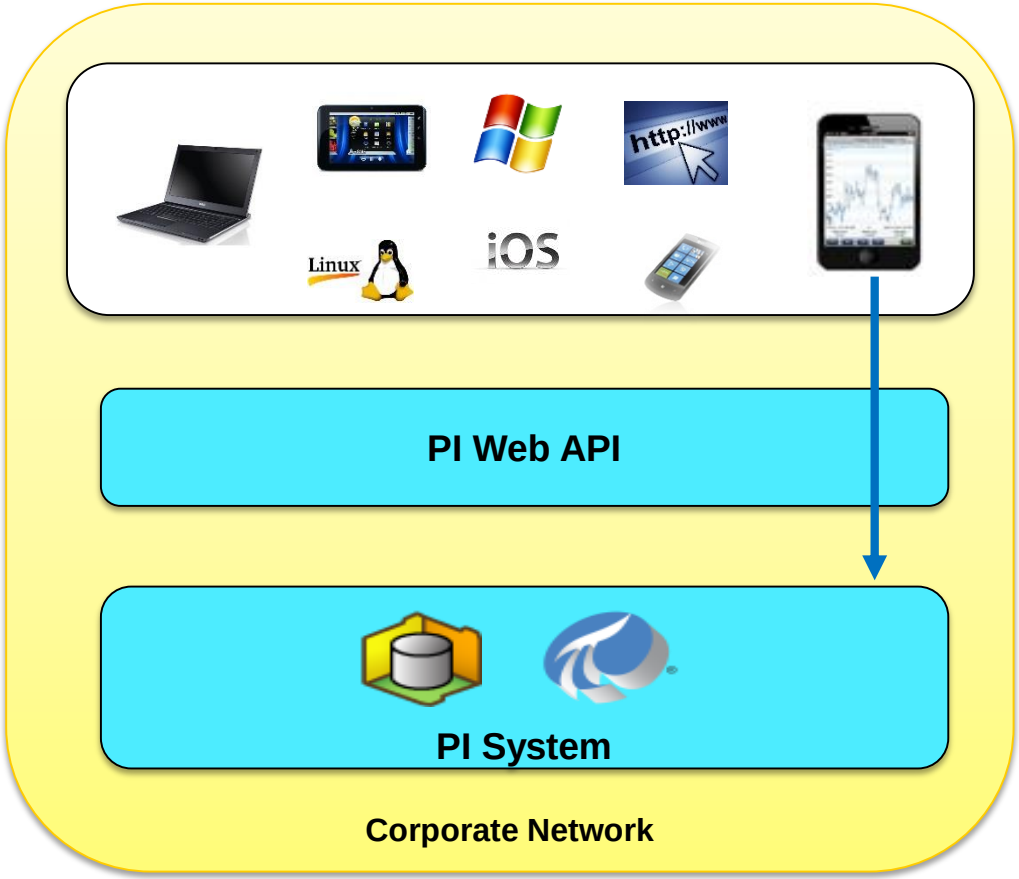
Going Mobile...





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Business Challenge Revisited

- Portable/Mobile Devices are now a necessity for Knowledge Workers
- Connectivity regardless of location
  - Either inside or outside of the corporate firewall
  - Security and maintenance concerns with VPN

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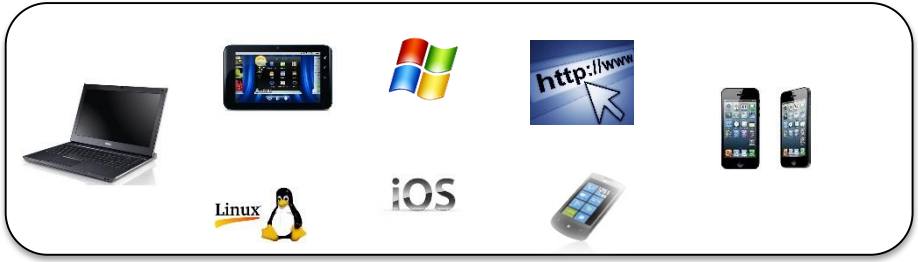
In other words...

We need to connect applications running on these devices and platforms ...



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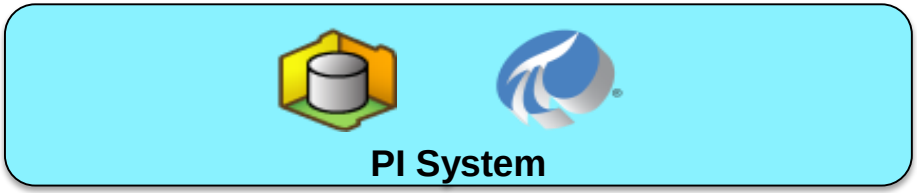

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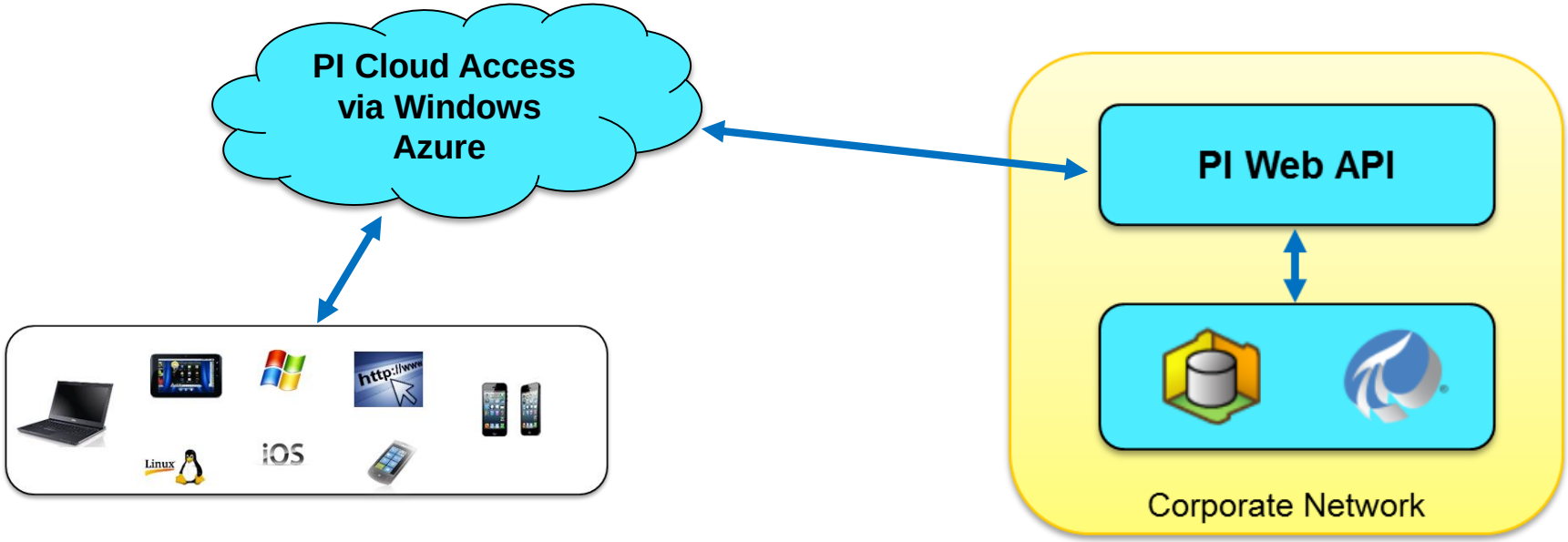
Enter PI Cloud Access



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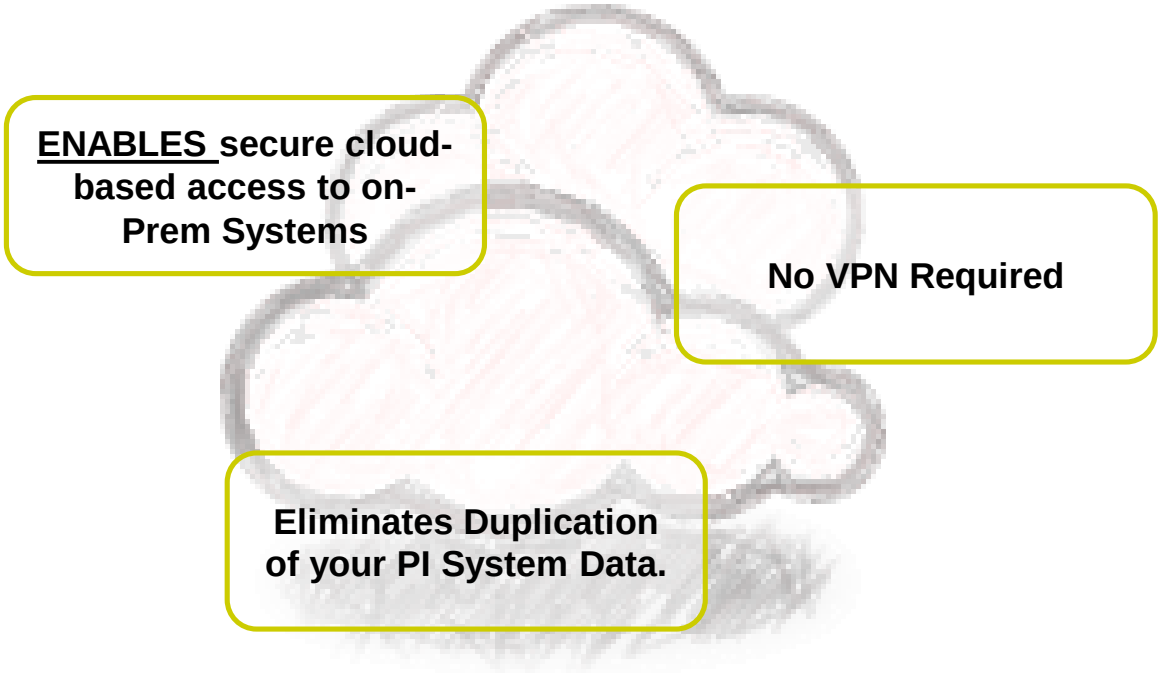
Features of PI Cloud Access



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PI Cloud Access in Practice

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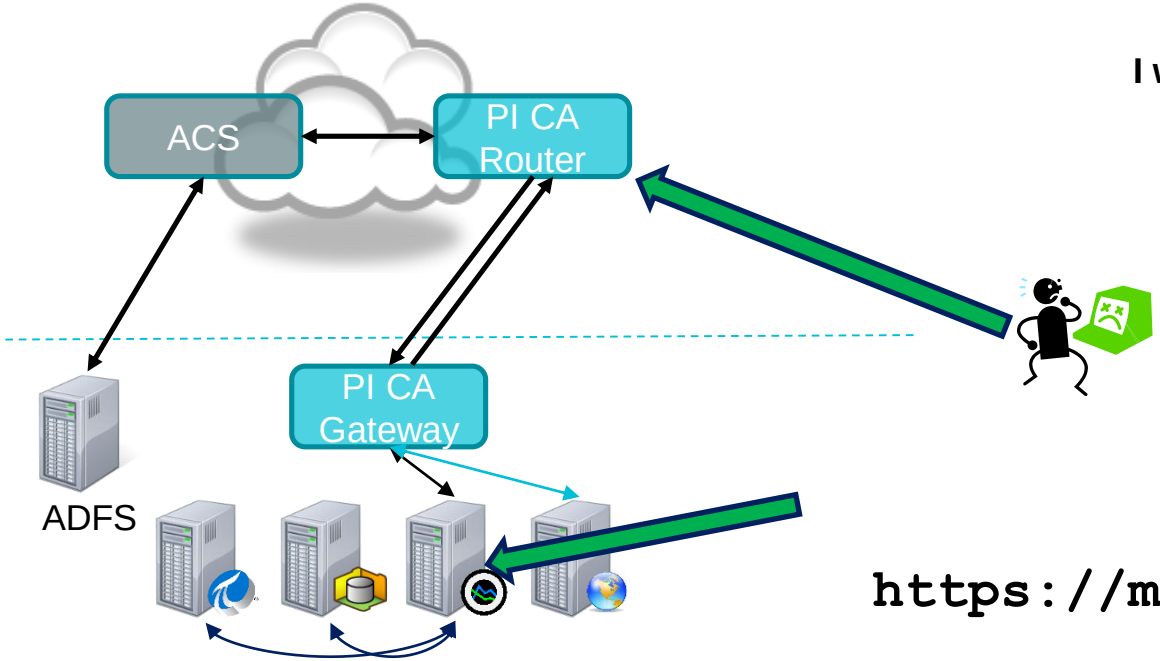

I want to access Coresight Mobile!!

Option 1 – Direct Access
Move inside the Firewall or use VPN
Hit the Coresight server *directly*

Option 2 – From Anywhere
At home or on the road.
Any WiFi or xG connection
Hit the Coresight server via the cloud

https://mycsserver/Coresight/m

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PI Cloud Access Summary

- **Currently on Research, seeking CTP Users for Feedback**
- **Enables secure cloud-based access to an on-premises PI System.**
- **Remote connectivity when VPN is prohibitive to ensure that your subject matter experts have access to your PI System**
- **PI Cloud Access + PI Web API = Cross-business web and mobile data sharing application development opportunities.**

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DEMO

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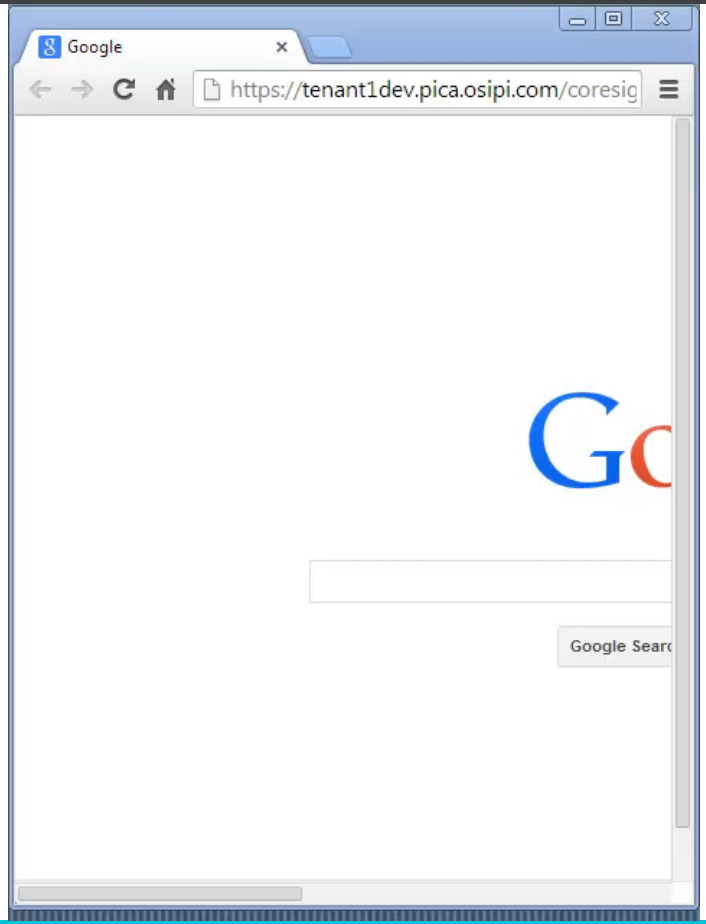
Coresight Mobile via PI Cloud Access



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Senior System Engineer

OSIsoft Europe GmbH

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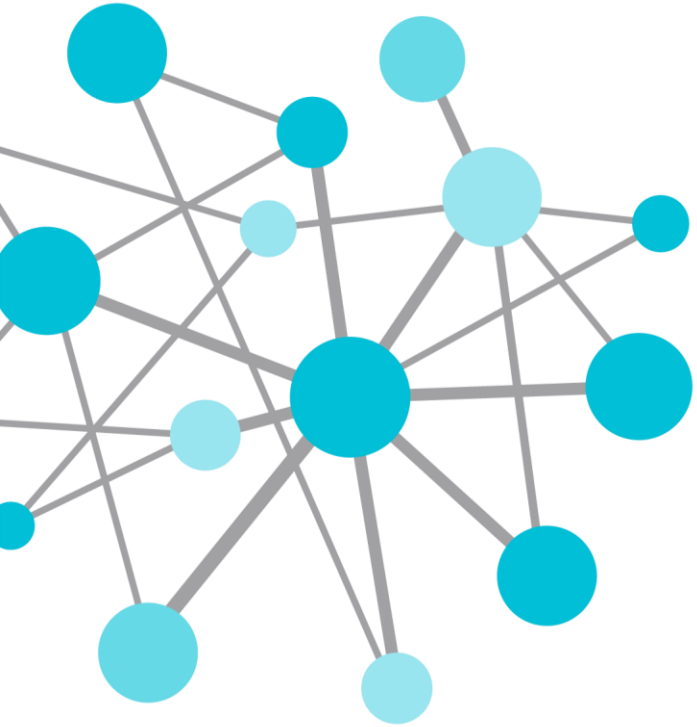

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