

OSIsoft。 REGIONAL S SEMINARS S The Power of Data

OSIsoft. REGIONAL SEMINARS 2013

© Copyright 2013 OSIsoft, LLC.



Evolution of Pl System Access

Presented by Abdo Y. Saad



OSIsoft. REGIONAL SEMINARS 2013

© Copyright 2013 OSIsoft, LLC.

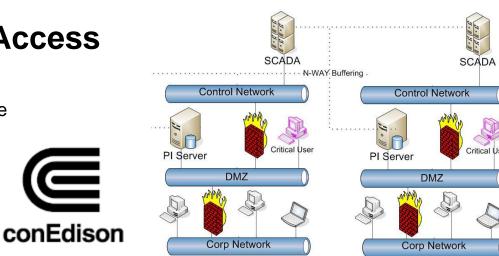
OSIsoft. REGIONAL SEMINARS 2013

ARS 2013

Evolution of PI System Access

Foolproof systems don't take into account the ingenuity of fools.

Gene Brown



- Secure access
- Regulatory Compliance
- Small footprint

- Protected networks
- Clear rules and processes
- Achieve more with less

- Segregate networks
- Separate Merchant group
- Optimize No. of servers

Agenda

- What I mean by...
- Various PI Server configurations
- Questions



What I mean by...

- Corporate network
- Control network
- SCADA
- Dotted line



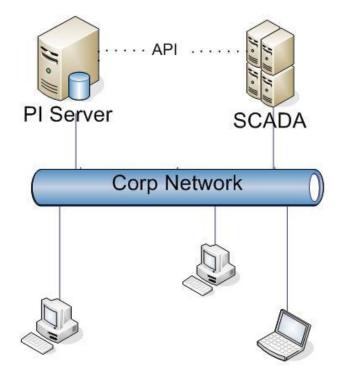
•



and the second se

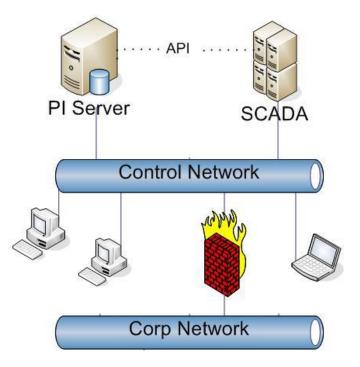
At the beginning

- Control network and corporate network all the same
- Not much concern about security
- No regulatory compliance



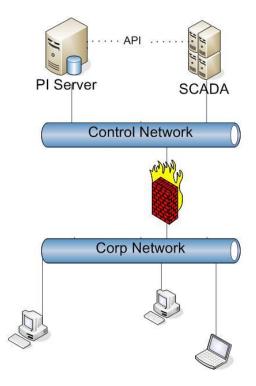
Separation of Control network

- PI Servers remained on Control network
- Users still on Control network
- Archived data not available to corporate users



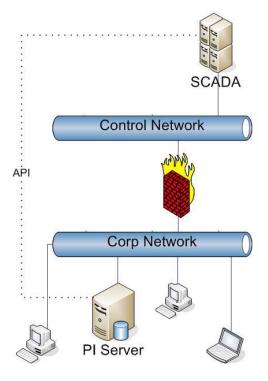
Providing PI data outside control centers

- PI Servers remained on Control network
- PI access opened up to corporate users
- Archived data made available for corporate groups



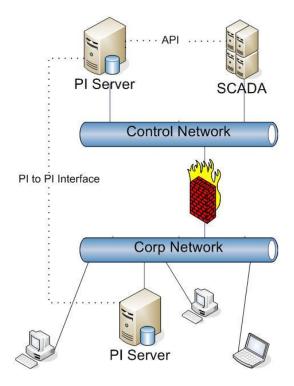
Concern about access to Control network

- PI server moved outside secure perimeter
- Change transparent to users



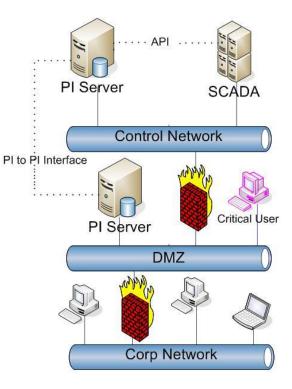
CIP happens

- PI server inside secure perimeter
- *PI server outside secure perimeter*
- User access from Corporate network only (avoid tracking user eligibility to access critical system)
- Helps regarding concern about buffering of data



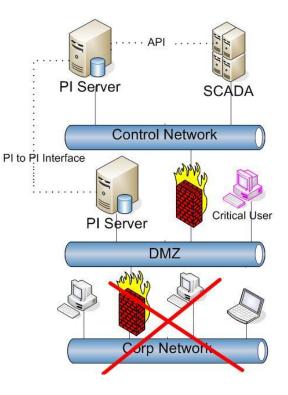
Concern about network separation

- PI server on DMZ
- PI access still available if corporate is separated
- Critical users given access through DMZ access point (firewall)



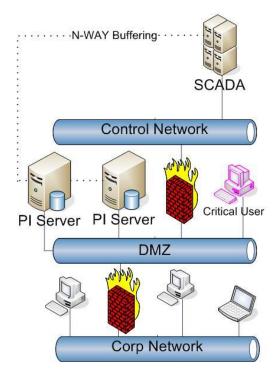
Concern about network separation

- PI server on DMZ
- PI access still available if corporate is separated
- Critical users given access through DMZ access point (firewall)

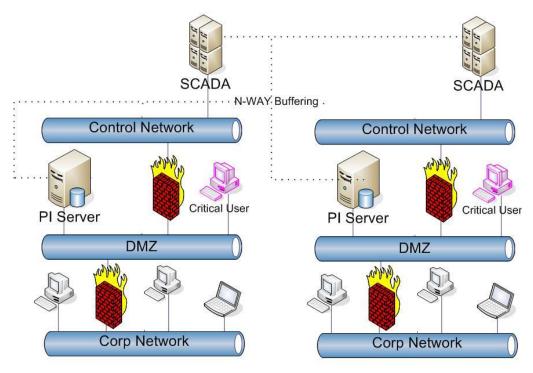


Redundancy & smaller footprint

- Redundancy on Corporate
 network
- Data identical on both servers (N-Way Buffering)
- Access to corporate users through DMZ
- Less Maintenance



Full picture



OSIsoft. REGIONAL SEMINARS 2013







OSIsoft. REGIONAL SEMINARS 2013