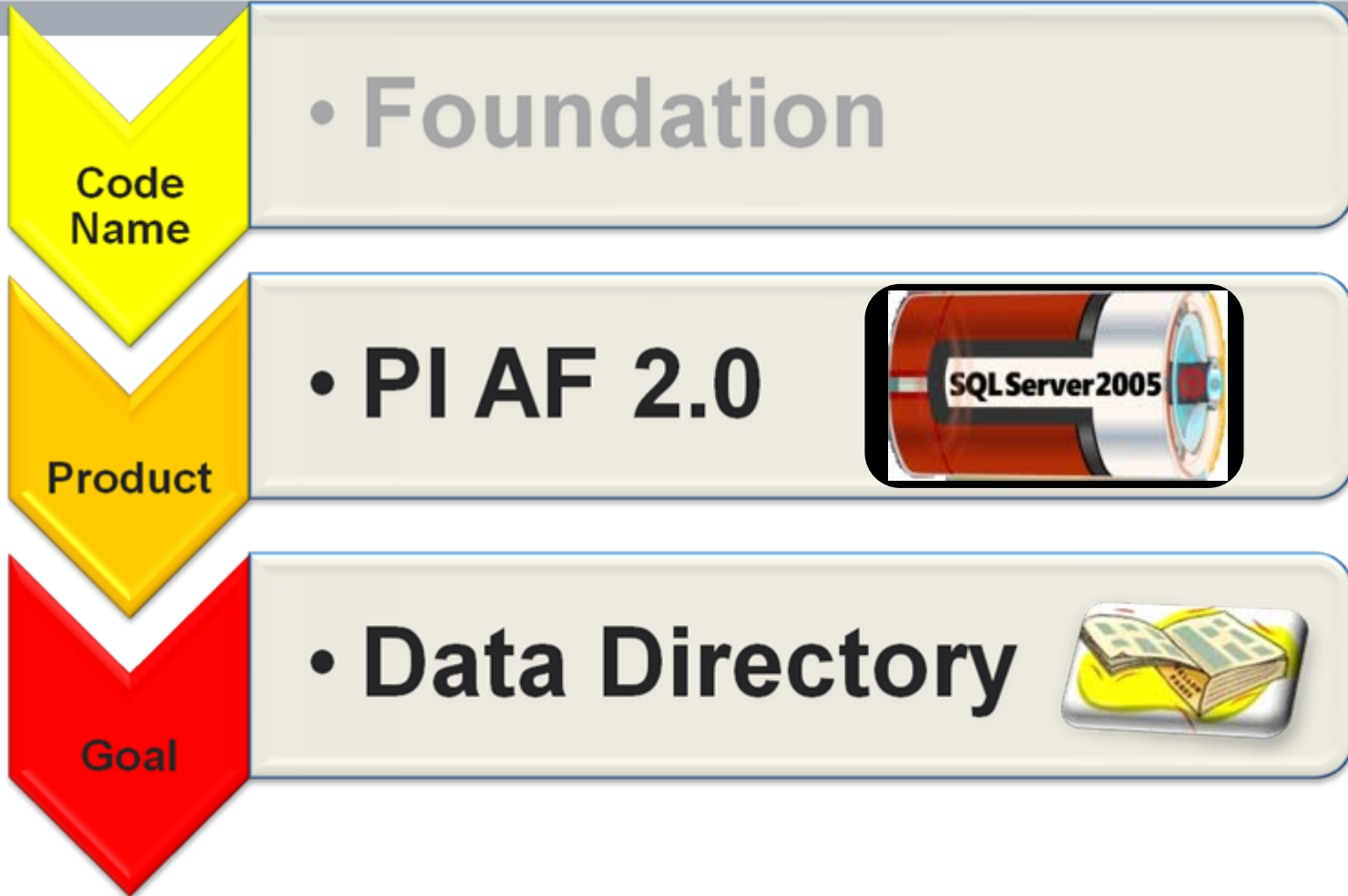# AF2.0 协助你有效的管理数据

Felicia Tan
技术工程师

Agenda
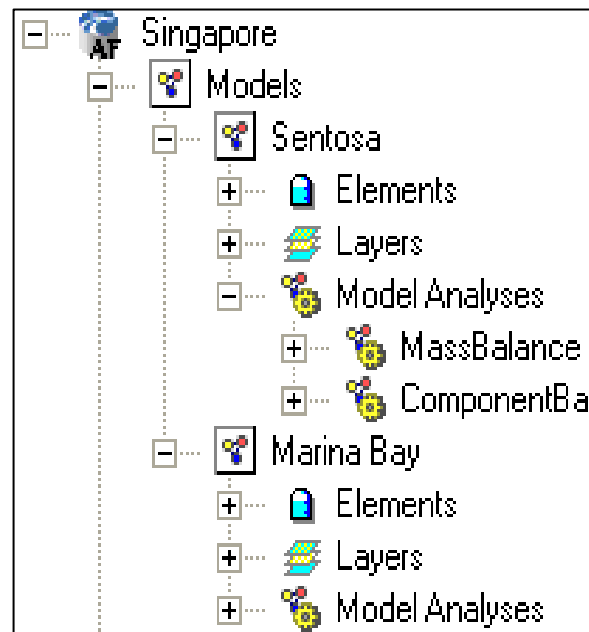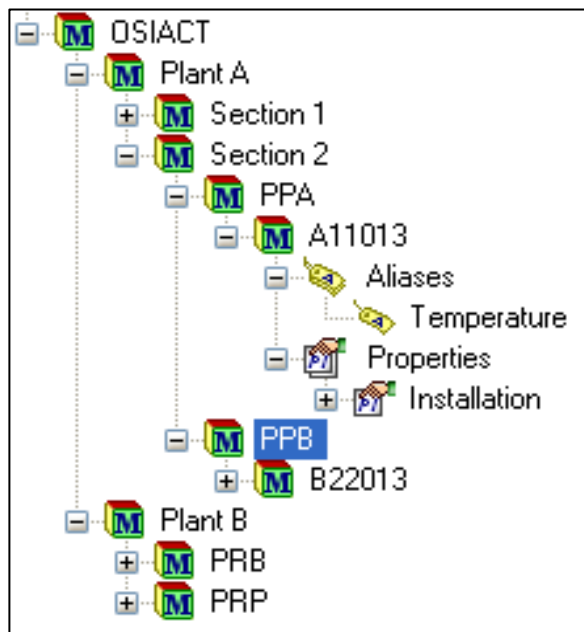
- What's AF 2.0?
- The value of AF
- Demonstrations
- Backwards compatibility
- Requirements

Foundation by any other name

Code Name
- Foundation

Product
- PI AF 2.0 SQL Server 2005

Goal
- Data Directory

What is AF 2.0?

The best of PI MDB and PI AF 1.x combined

… and a lot more!

The value of AF: structure

- PI is extremely good at:
  - Collect data from almost anywhere
  - Massive scalability, Highly available
- Flat points database
  - Organize your data
- Meta-data: a **structure** for the data
  - PI supplies data
  - AF supplies structure and access to more data

Why add structure?

- Structure is *your* knowledge applied to *your* data

- Structure helps you:
  - Keep track of your assets and data
  - Store your domain expertise
  - Rapidly build applications and displays
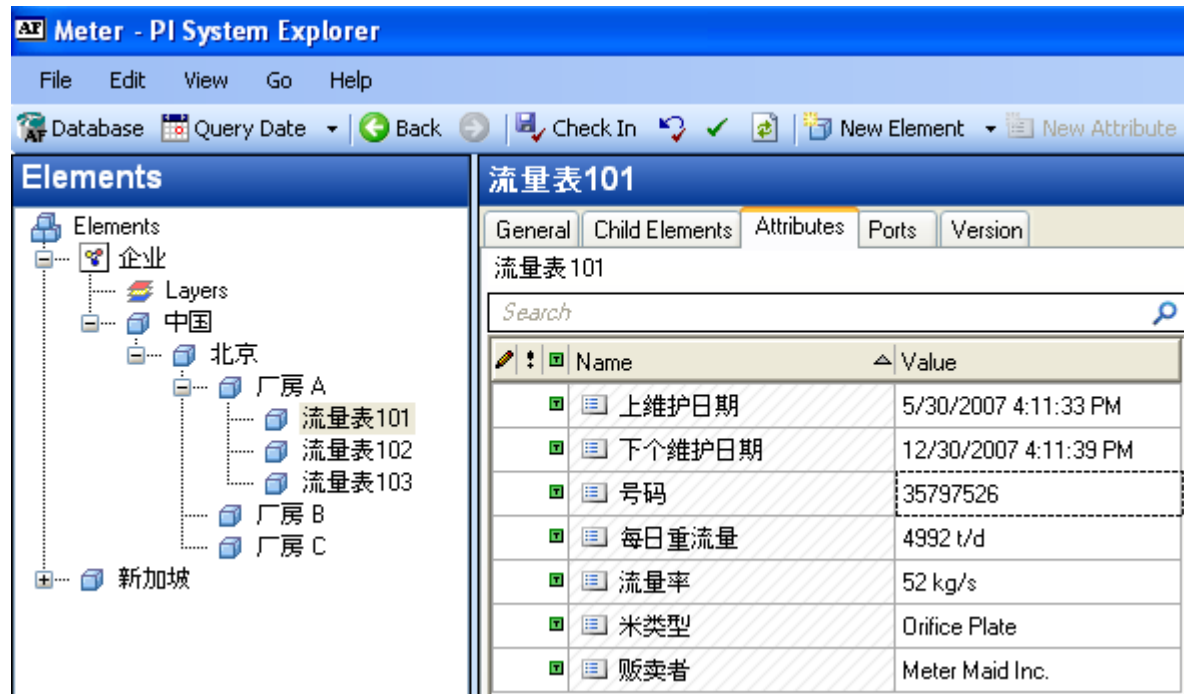 - Find information in user-friendly way

AF shapes your data

AF is designed to store structure:

– Defining types of assets ➡️ Templates

– Associating points with assets ➡️ Elements

– Extra information about points ➡️ Attributes

– Physical/logical asset structure ➡️ Hierarchy

– Assets connectivity ➡️ Models

– Transactions ➡️ Transfers

One Stop Shopping

- Locate the equipment in the tree

- Data from many sources
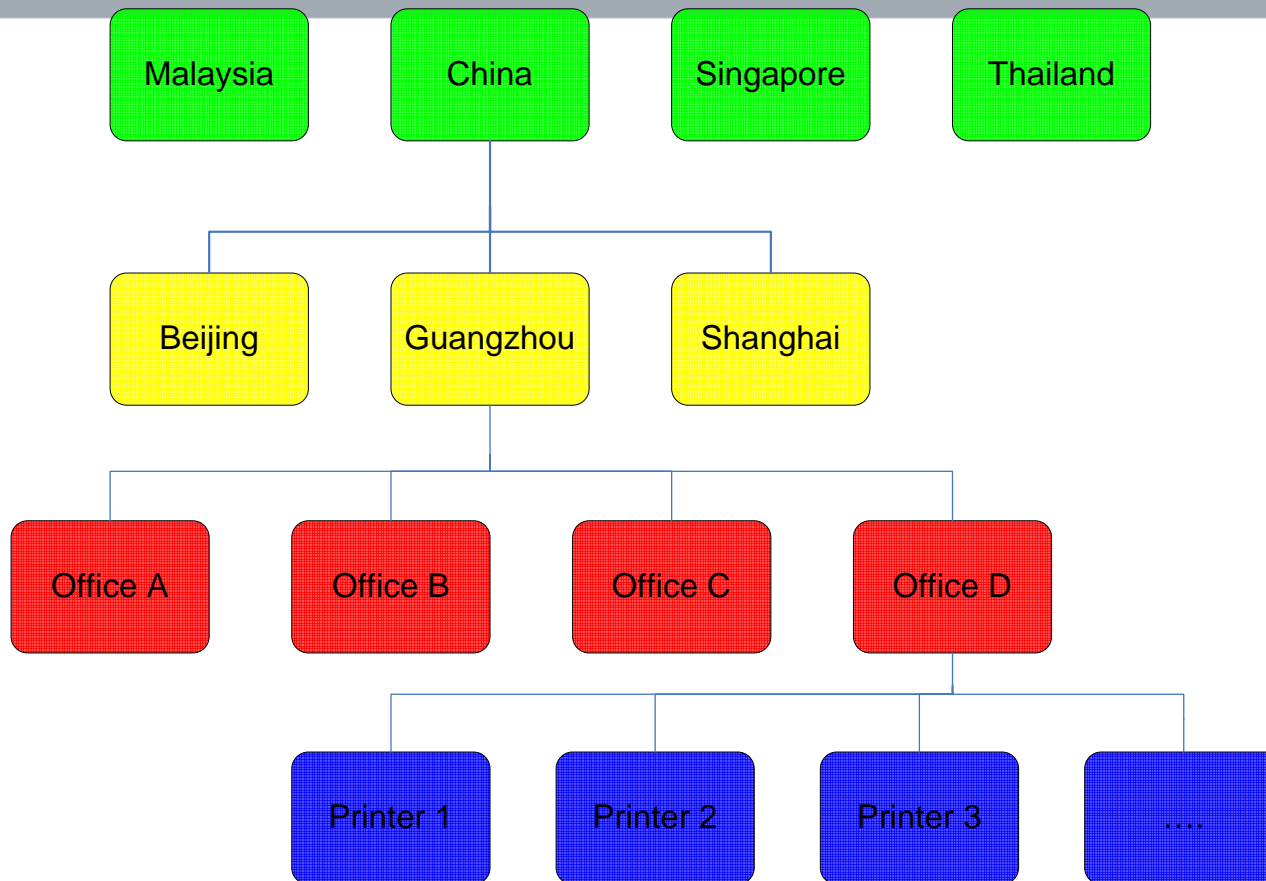
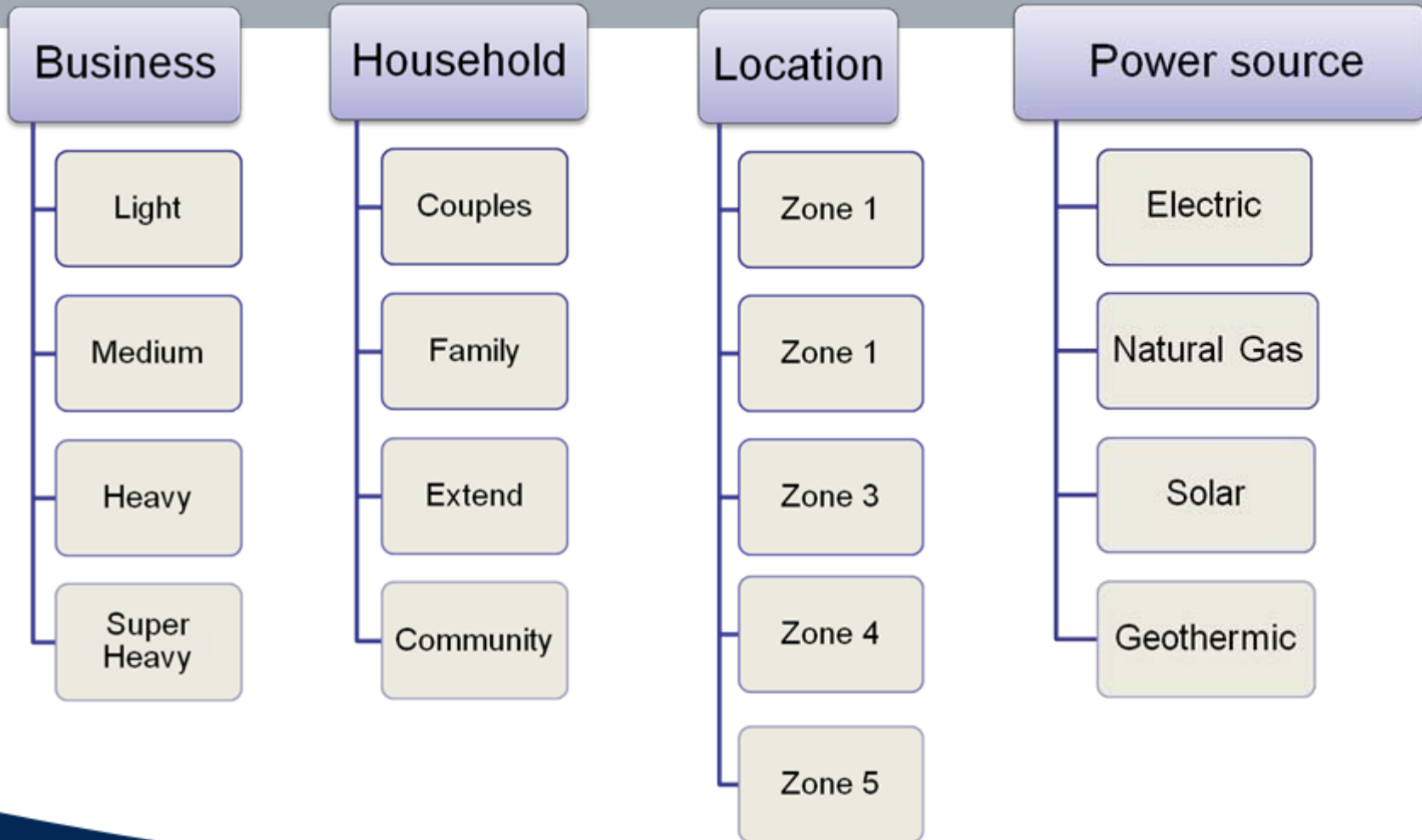- No Code, only Configuration

Storing your Expertise

– How to totalize flow rates in/out of Tank

– Limits for notification on Tank

– Alarm states on Tank

– Strapping table

– Capacity of Tank

– Production line for Tank

– Downstream units of Tank

– Responsible person for production line

Hierarchical view

Malaysia · China · Singapore · Thailand

Beijing · Guangzhou · Shanghai

Office A · Office B · Office C · Office D

Printer 1 · Printer 2 · Printer 3 · ….

OSIsoft.

VALUE NOW, VALUE OVER TIME

Categories

Business
- Light
- Medium
- Heavy
- Super Heavy

Household
- Couples
- Family
- Extend
- Community

Location
- Zone 1
- Zone 1
- Zone 3
- Zone 4
- Zone 5

Power source
- Electric
- Natural Gas
- Solar
- Geothermic
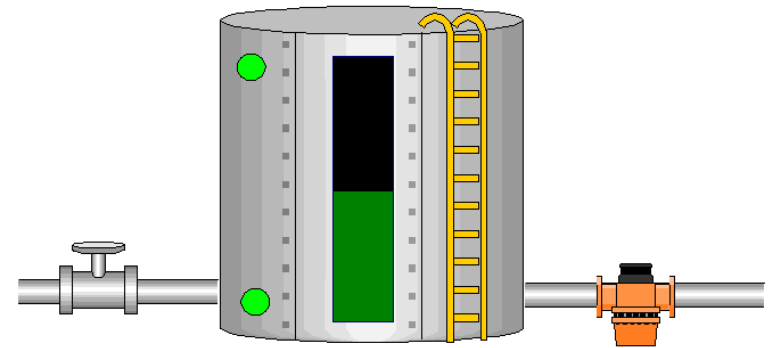
AF 2.0

Knowing Where to Look

- Adding your structure is done once
  - Organize points
  - Consistent naming
  - Static configured data
  - Data from other systems
- This structure benefits all PI users forever
  - Searches across PI systems
  - Search for information related to the business
  - Ability to view and use additional information
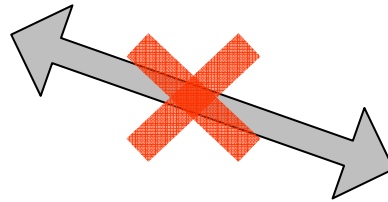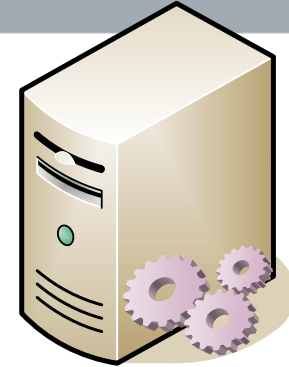
The AF compatibility layer

- Redirect all AF 1.x clients towards AF 2.0
  - AF Explorer
  - AF Modeler for ProcessBook
  - AF Excel Add-ins
  - Custom DR, AR
- New AF 2.0 features not supported by old clients
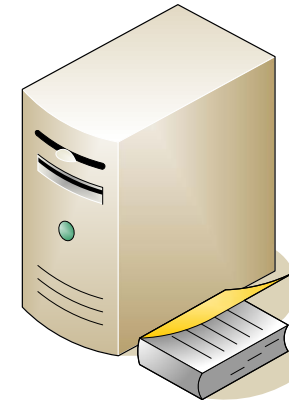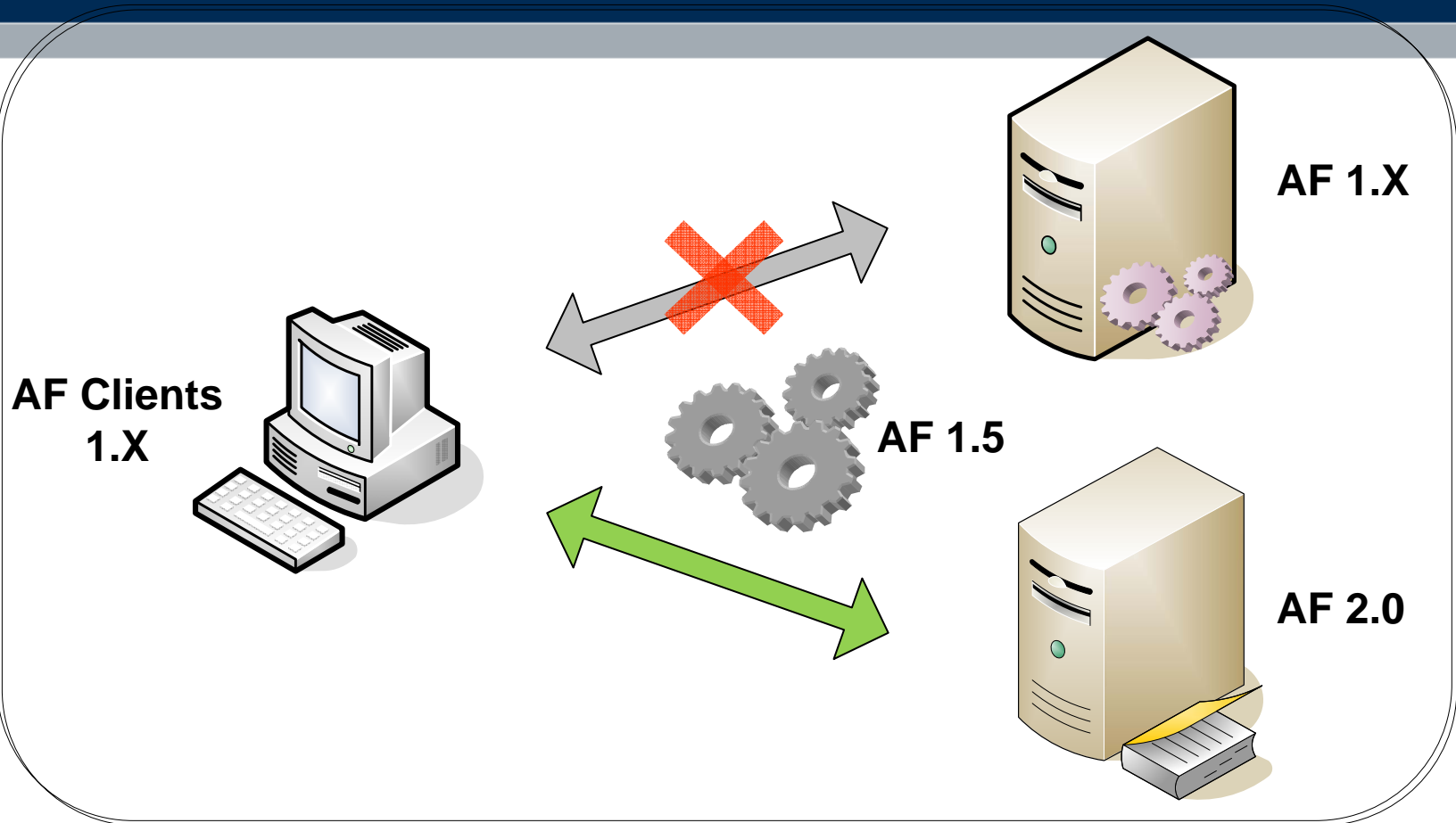
No compatibility layer

AF 1.X

AF Clients
1.X

AF 2.0

OSIsoft.

VALUE NOW, VALUE OVER TIME
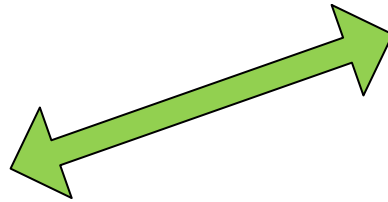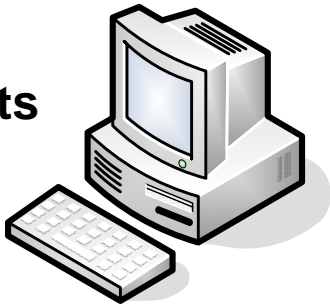
With the AF 1.5 compatibility layer
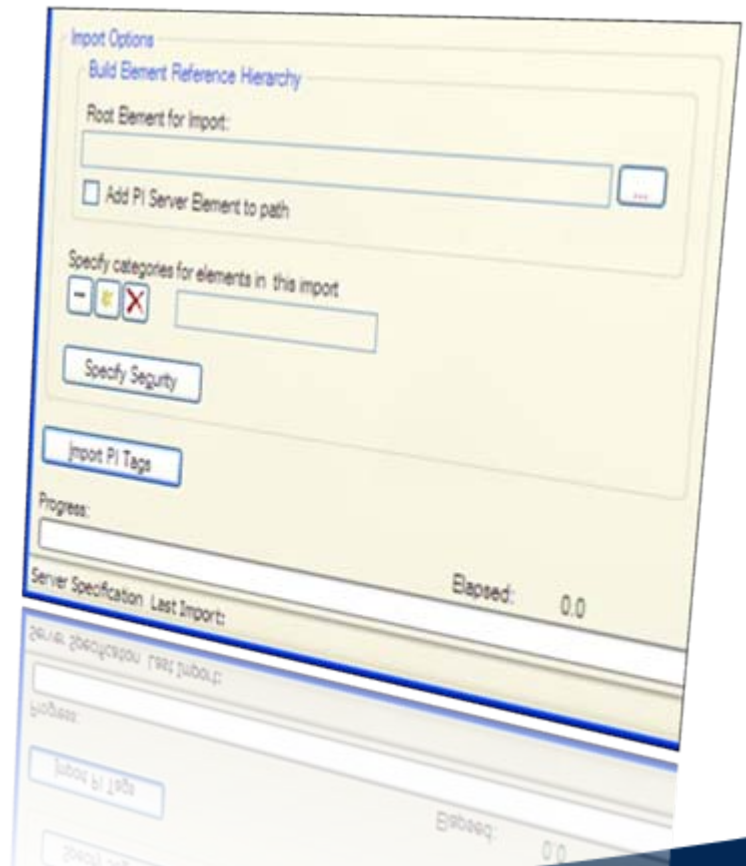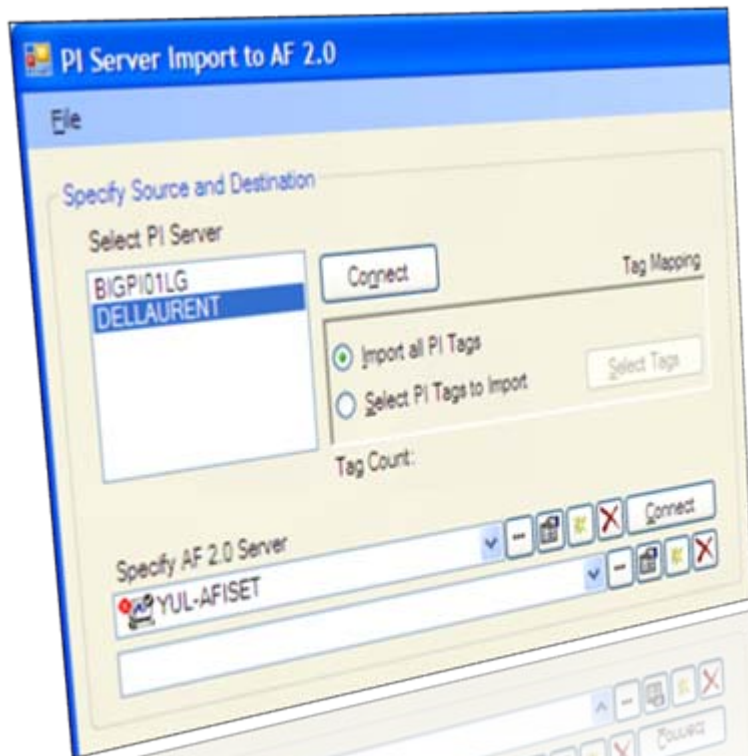

AF 1.X

AF Clients 1.X

AF 1.5

AF 2.0

AF upgrade utility

Migration from PI MDB
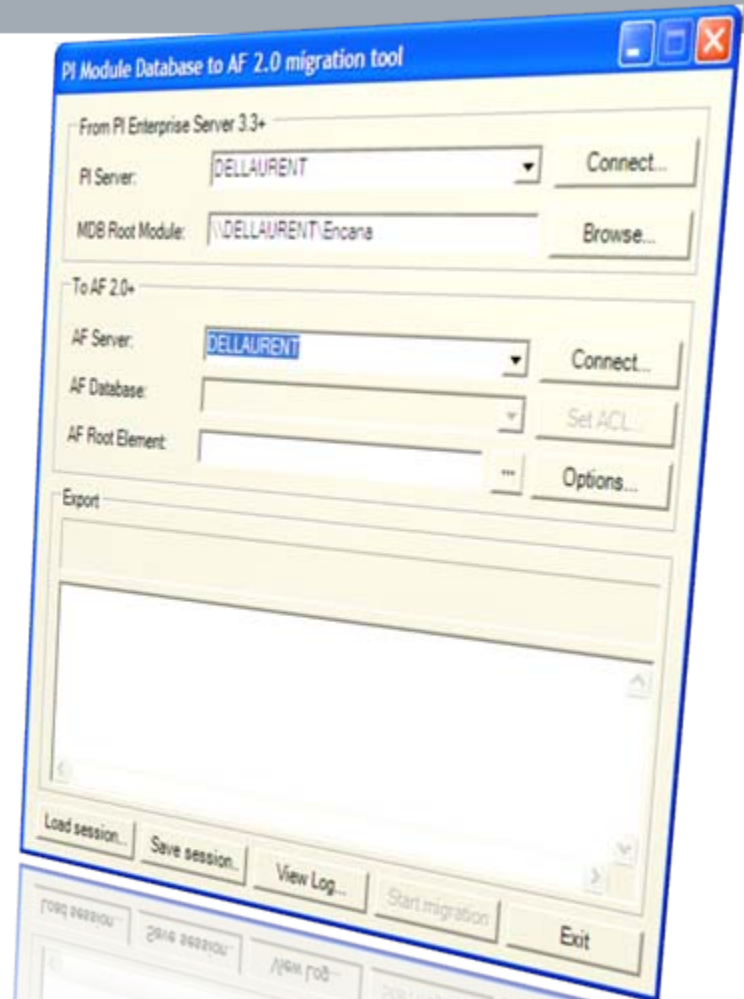
Getting started with AF 2.0

The PIServerImport utility

Requirements

- SQL Server 2005 or SQL Server Express 2005

- PI Server 3.2.354.0 or more recent

- Microsoft .NET Framework 3.0

- Operating System must be Windows XP or greater

Go for a test drive!

技术示范