DataLink for the Office 2007 Platform

Jason King

OSIsoft, Inc.

OSIsoft.

Benefits of Office 2007

- Faster Excel Calculation Engine

- Hard Coded Limits Increased

- New Formatting Features

- DataLink 3.1.5 User Experience

- New DataLink User Experience

- DataLink Functions on the Web

VALUE NOW, VALUE OVER TIME

Faster Calculation Engine

- Improved performance of calculation engine
  - All formulas are executed faster
  - Should result in faster DataLink results

VALUE NOW, VALUE OVER TIME

Hard Coded Limits Increased

- 1,048,576 rows by 16,384 columns
  - Columns now end at XFD instead of IV
    - cdt158 is now an actual valid cell reference!
  - Can put more data on spreadsheet
- 255 character limit increased to 32k
- Many more limits have been increased

VALUE NOW, VALUE OVER TIME

New Formatting Features

- Reports more visually pleasing
  - Data Bars are colored bars in cell itself
  - Conditional Formatting easier in Office 2007

27-Mar-06 11:00:00	26.94896
27-Mar-06 12:00:00	49.40918
27-Mar-06 13:00:00	73.10955
27-Mar-06 14:00:00	91.51972
27-Mar-06 15:00:00	98.38494
27-Mar-06 16:00:00	92.04972
27-Mar-06 17:00:00	74.9692
27-Mar-06 18:00:00	50.83141
27-Mar-06 19:00:00	26.69362
27-Mar-06 20:00:00	6.830525

VALUE NOW, VALUE OVER TIME
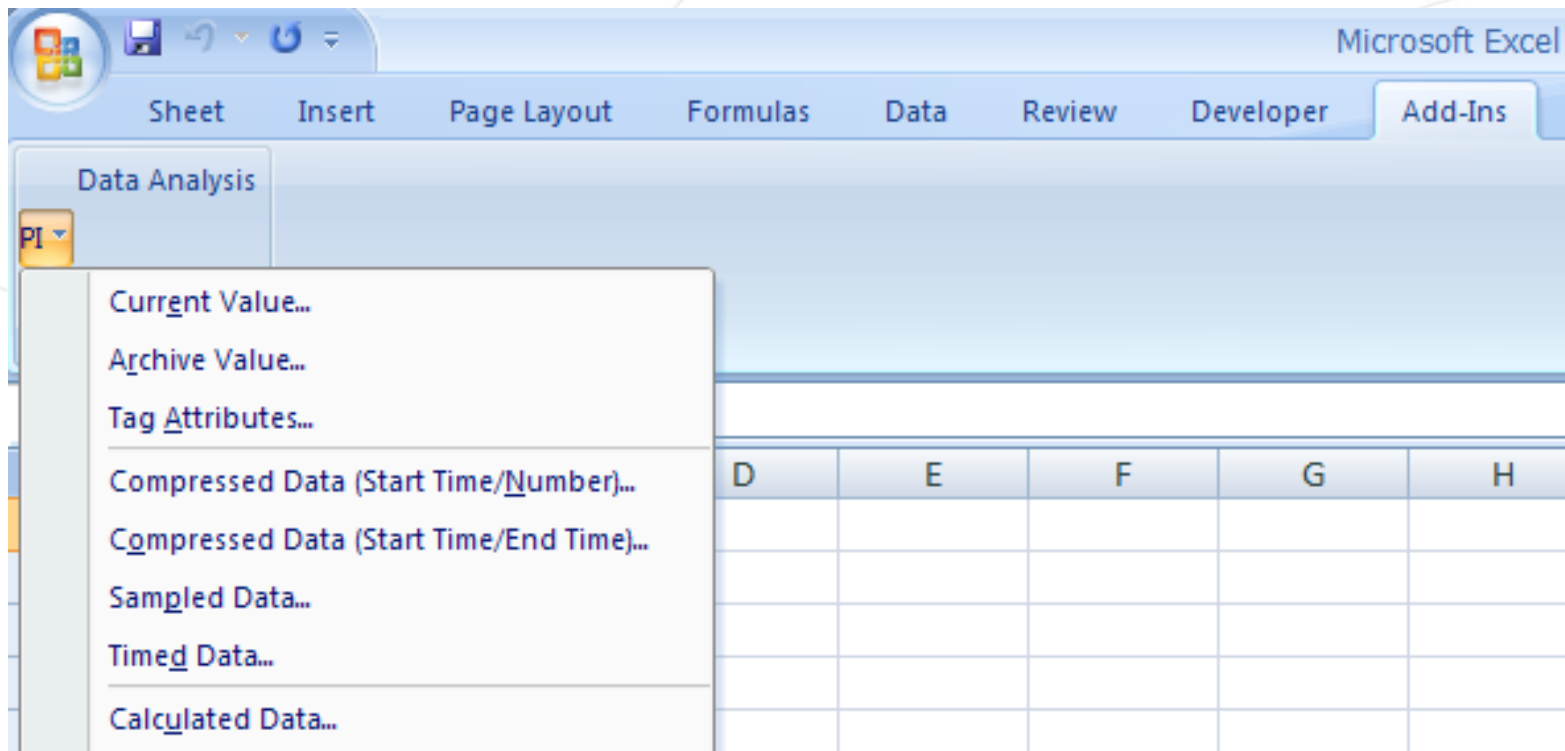
DataLink 3.1.5 in Office 2007

- Calculated Functions return start, end, min/max time of calculated period

- Support for structured annotations

VALUE NOW, VALUE OVER TIME

6

DataLink 3.1.5 in Office 2007
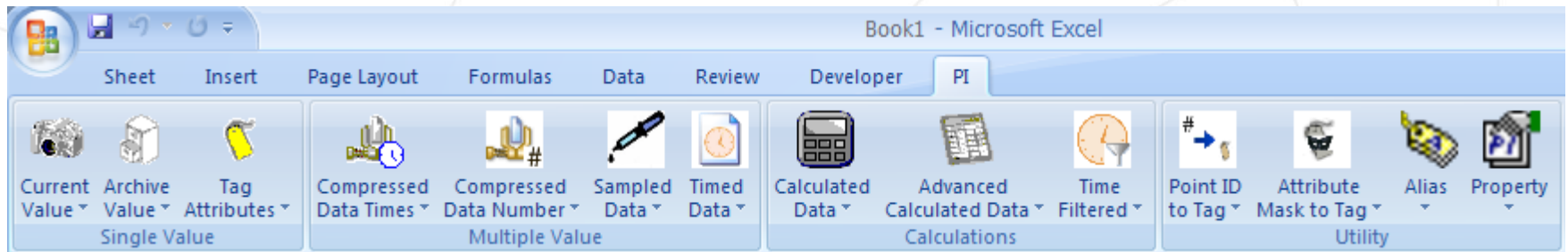
- DataLink add-in part of the "Add-Ins" Tab

VALUE NOW, VALUE OVER TIME

New DataLink in Office 2007

- ## New Icons on Ribbon Menu
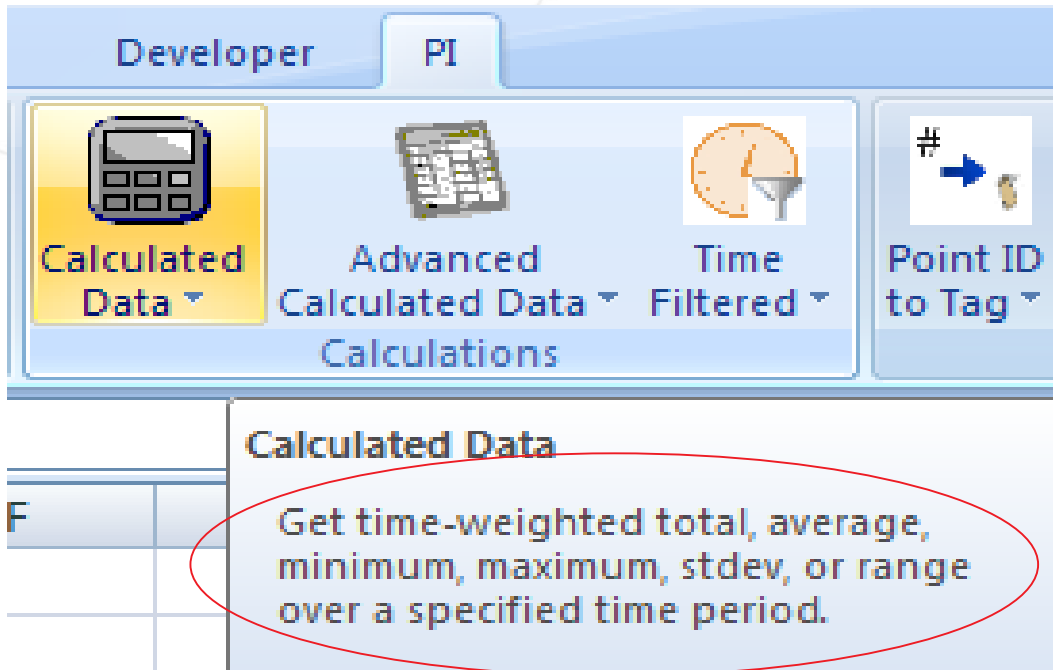
  - Easier to figure out functionality of menu items

New DataLink in Office 2007

- Super Tooltips are right off the ribbon
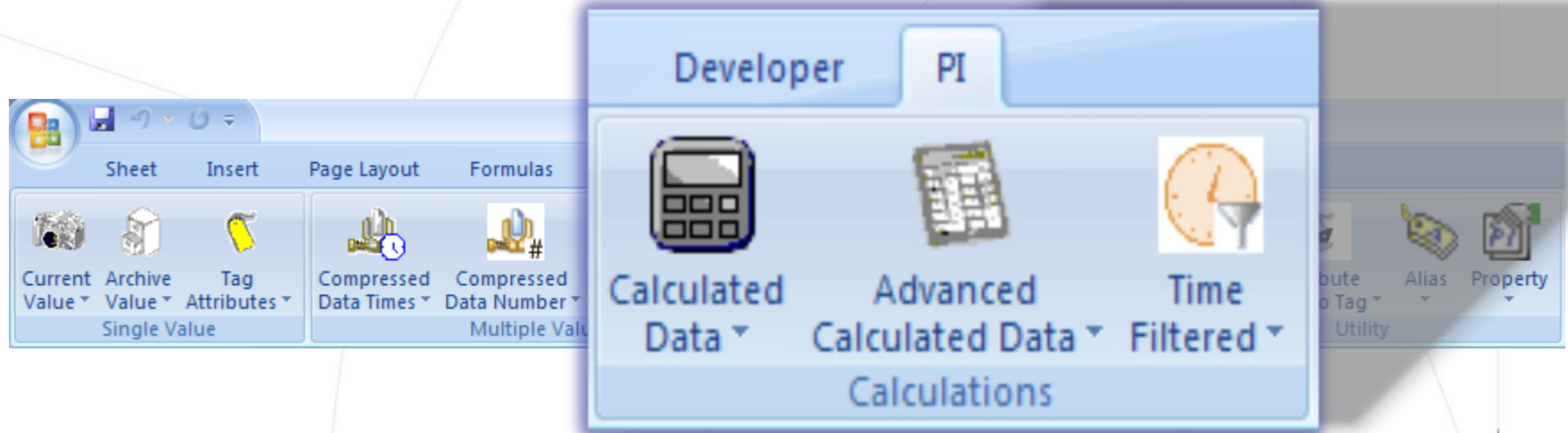 - Easier to figure out what the function is

VALUE NOW, VALUE OVER TIME

New DataLink in Office 2007

- Grouping of Menu Items
  - Subtle grouping in previous versions
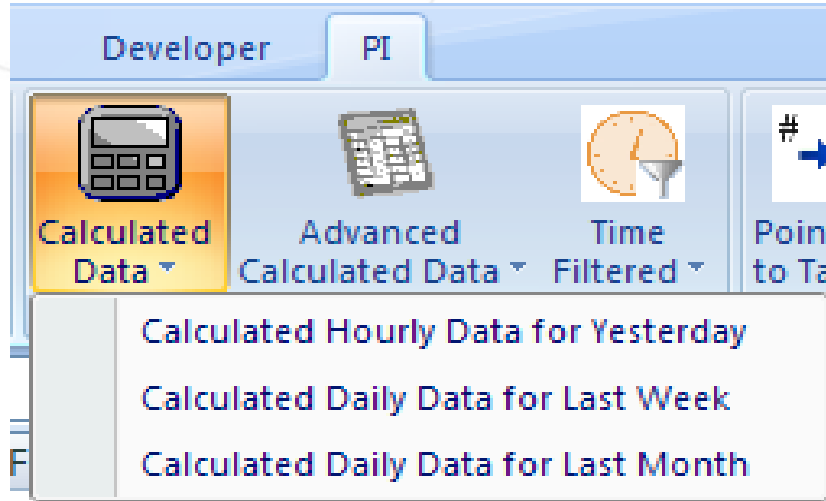 - "Chunks" make grouping much more apparent

New DataLink in Office 2007

- Favorites
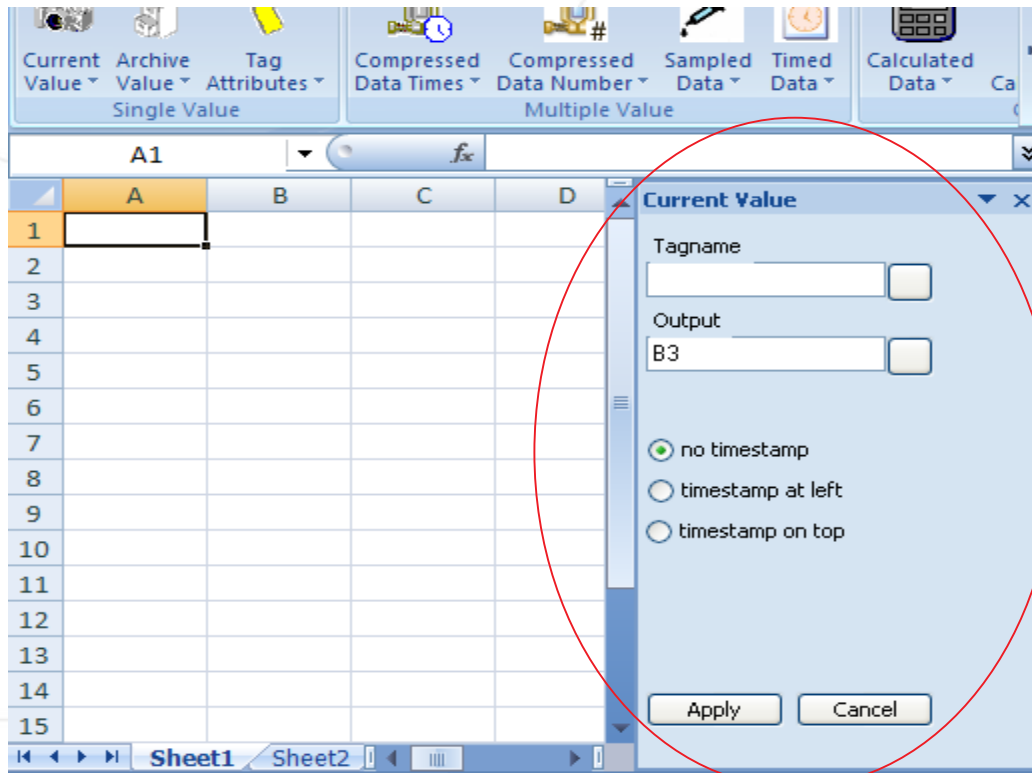 - Fill out fields more quickly
  - Ability to add custom favorites

VALUE NOW, VALUE OVER TIME

New DataLink in Office 2007

- Dialogs replaced by Custom Task Pane

- Drives all pasting of DataLink functions

VALUE NOW, VALUE OVER TIME

New DataLink in Office 2007

- Easier to make changes to arguments of DataLink functions
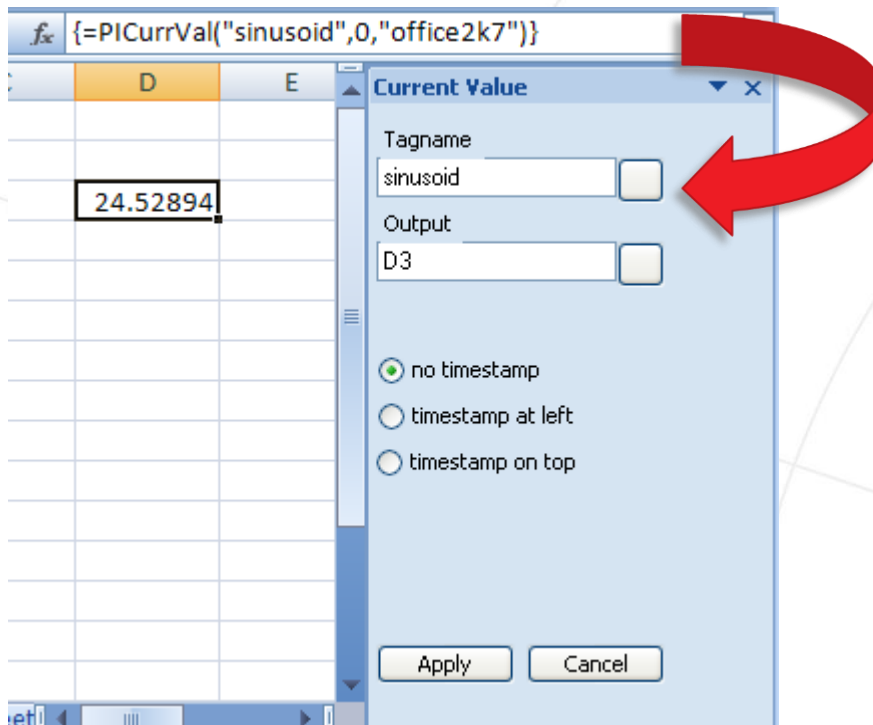
VALUE NOW, VALUE OVER TIME

DataLink Functions on the Web

- Deploy DataLink functions at enterprise level:

  – Install Sharepoint 2007 on the server machine

  – Install DataLink functions on the server machine

- No DataLink or Excel installation on client

  – Easy to upgrade everyone at once

  – One Version of Truth

VALUE NOW, VALUE OVER TIME

DataLink Functions on the Web

- Not able to directly edit cells on spreadsheet

- Parameter list enables to change cells

- Parameters are named ranges on the spreadsheet

- Make existing spreadsheets portable to Sharepoint portal

VALUE NOW, VALUE OVER TIME

DataLink Functions on the Web

- RtWebParts Interaction

  – Excel web part as a consumer

  – RtWebParts as a provider

    - For example, "context" (tag name, start/end time, etc.) can be sent from RtTreeView

    - DataLink Server automatically recalculates and updated results are displayed in Excel web part

VALUE NOW, VALUE OVER TIME

Demo of DataLink in Office 2007

- Demo Time!!!

VALUE NOW, VALUE OVER TIME

The Central Theme: SEA

- **S**imple
  - Ribbon makes it simpler to use
  - DataLink on Excel Server makes it simpler to deploy and manage installations
- **E**nterprise Aware
  - DataLink on Excel Server is nice way to deploy DataLink at enterprise level
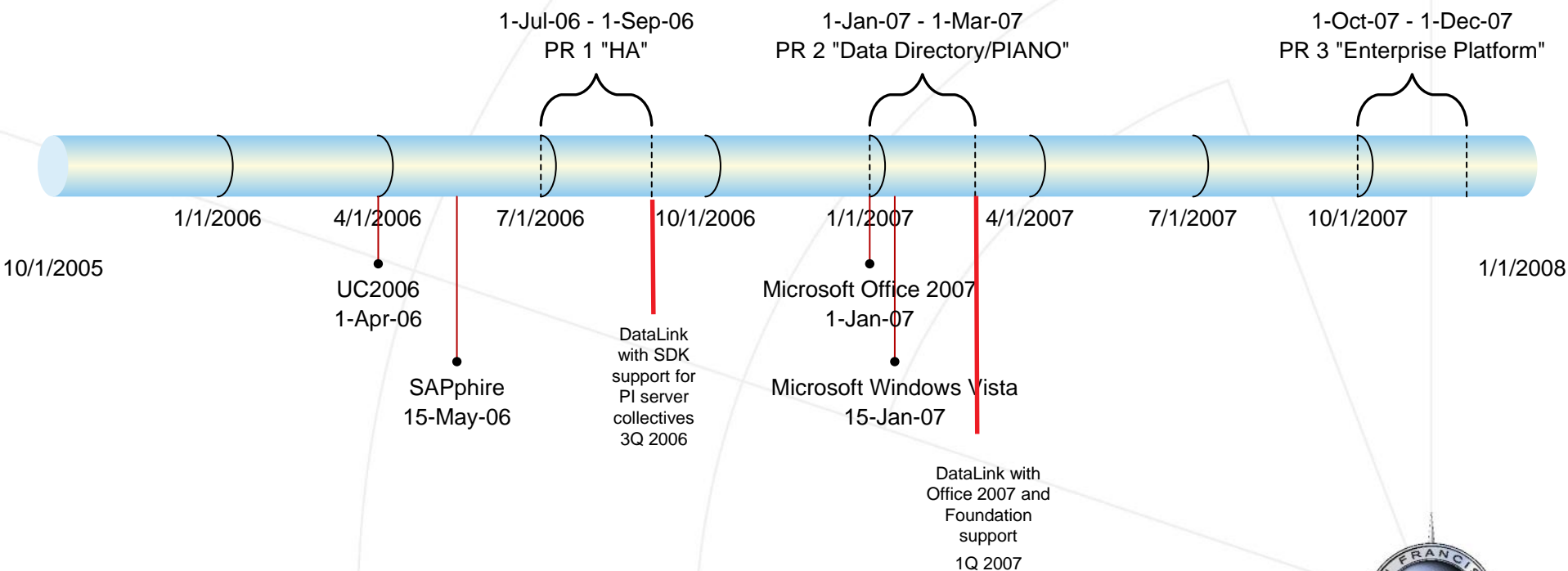- Highly **A**vailable
  - With the new SDK and its support of PI server collectives, data availability should increase

Engineering Roadmap
Initiatives and Events

1-Jul-06 - 1-Sep-06
PR 1 "HA"

1-Jan-07 - 1-Mar-07
PR 2 "Data Directory/PIANO"

1-Oct-07 - 1-Dec-07
PR 3 "Enterprise Platform"

1/1/2006   4/1/2006   7/1/2006   10/1/2006   1/1/2007   4/1/2007   7/1/2007   10/1/2007

10/1/2005

1/1/2008

UC2006
1-Apr-06

Microsoft Office 2007
1-Jan-07

DataLink
with SDK
support for
PI server
collectives
3Q 2006

SAPphire
15-May-06

Microsoft Windows Vista
15-Jan-07

DataLink with
Office 2007 and
Foundation
support
1Q 2007

VALUE NOW, VALUE OVER TIME

Demo of High Availability

- Never too many demos!!

Resources

- http://techsupport.osisoft.com/engineeringplan.aspx
- http://blogs.msdn.com/excel

VALUE NOW, VALUE OVER TIME