



DataLink for the Office 2007 Platform

Jason King
OSISOFT, Inc.

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

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

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

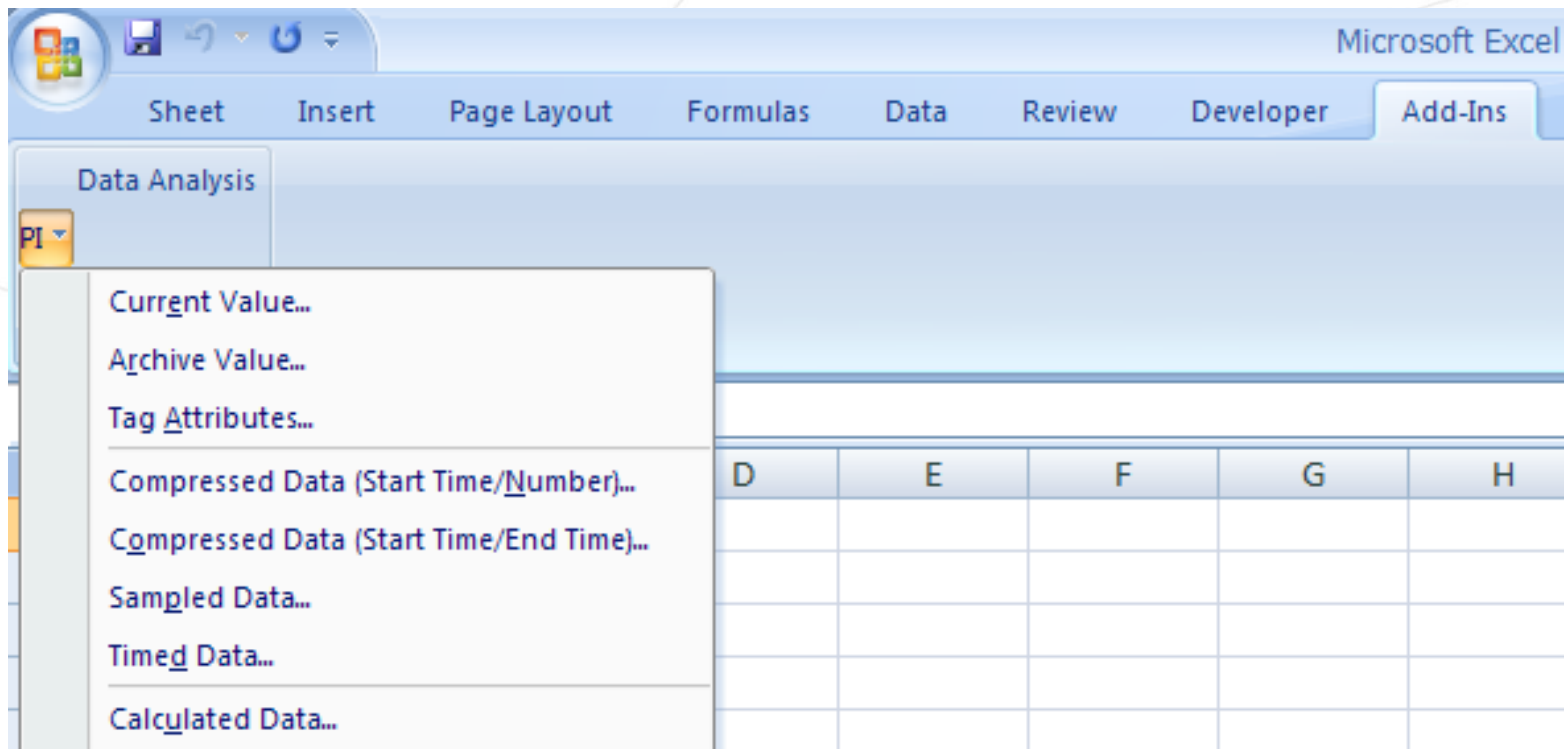


DataLink 3.1.5 in Office 2007

- Calculated Functions return start, end, min/max time of calculated period
- Support for structured annotations

DataLink 3.1.5 in Office 2007

- DataLink add-in part of the "Add-Ins" Tab

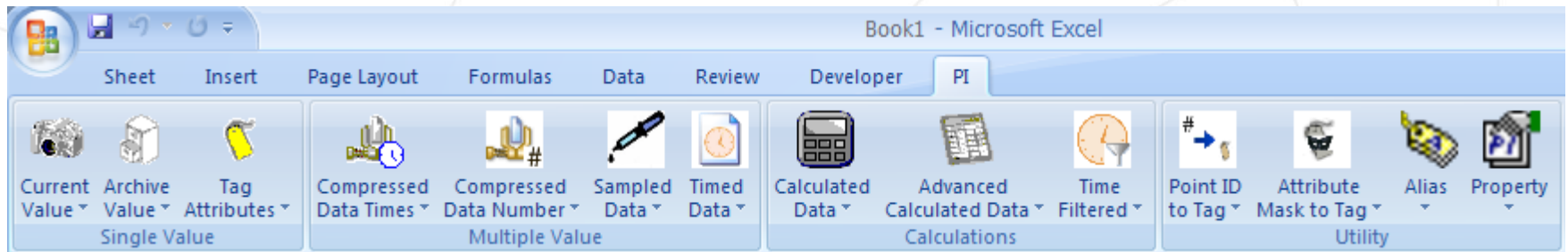


VALUE NOW, VALUE OVER TIME



New DataLink in Office 2007

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

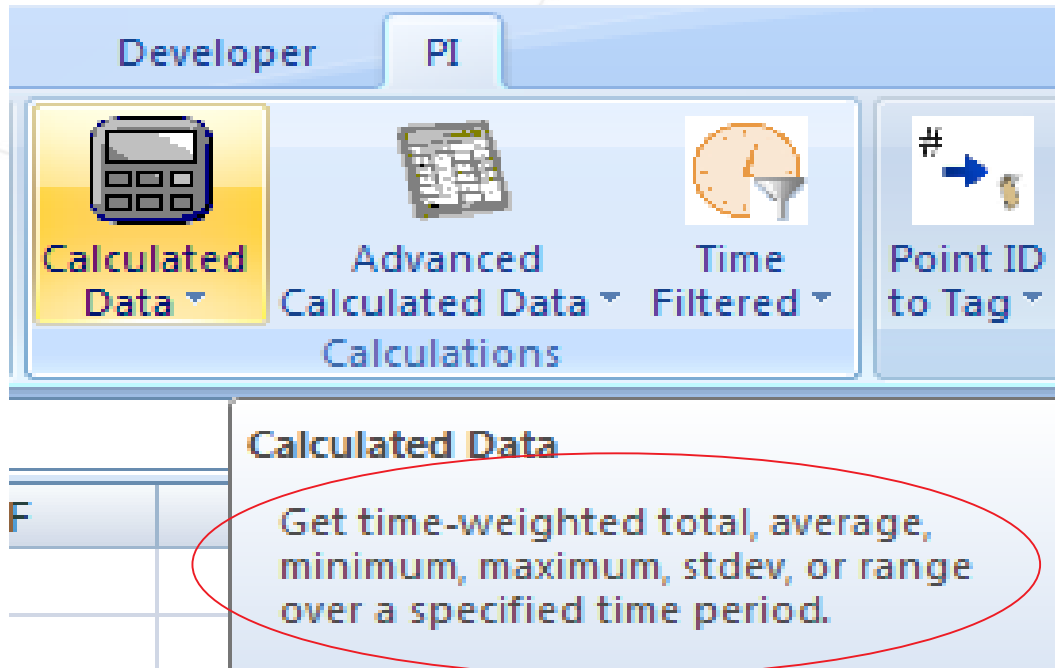


VALUE NOW, VALUE OVER TIME



New DataLink in Office 2007

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

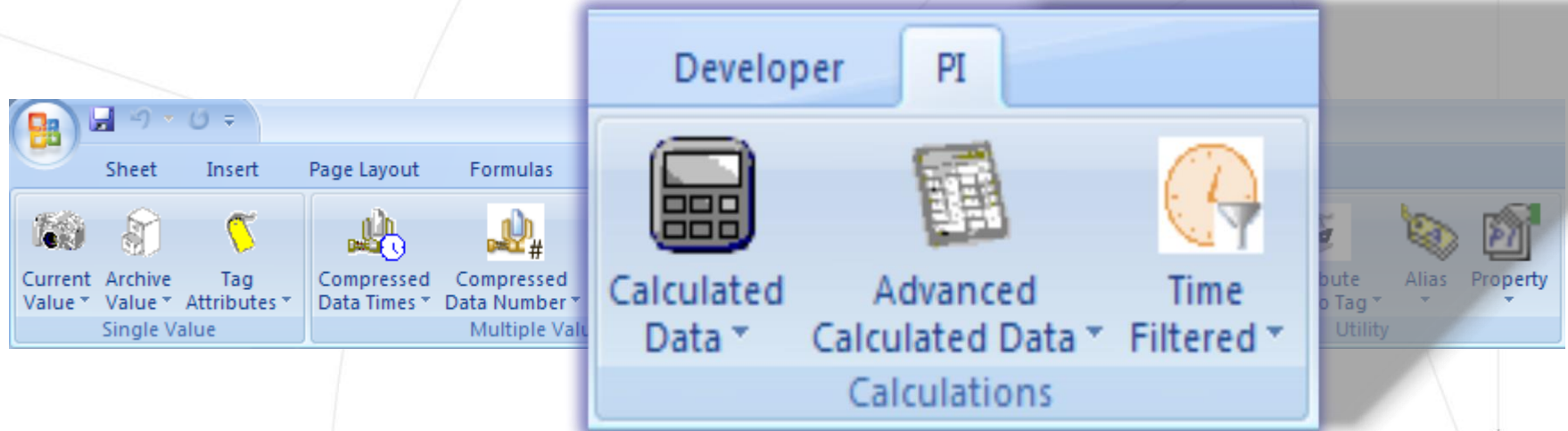


VALUE NOW, VALUE OVER TIME



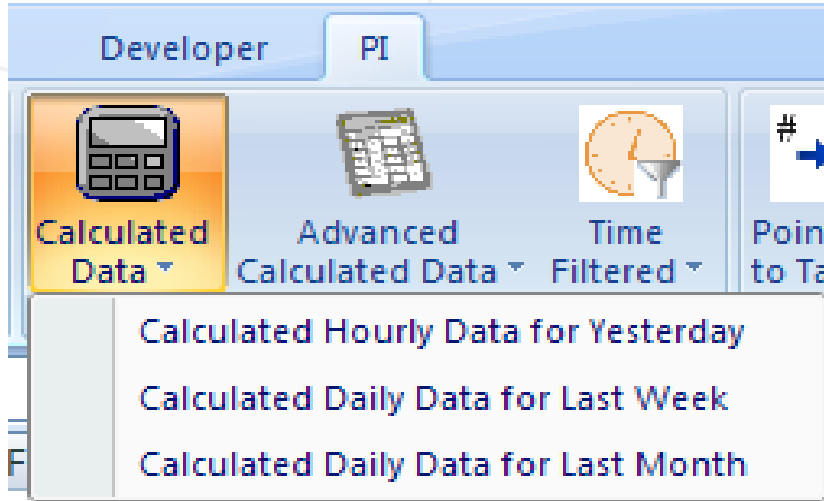
New DataLink in Office 2007

- 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



PI DataLink

Get calculated value(s)

Tagname(s) PI Server [opt.]

Start Time End Time

Time Interval [opt.] Conversion Factor

Calc. Mode Output Cell

☐ show start time ☐ show pctgood

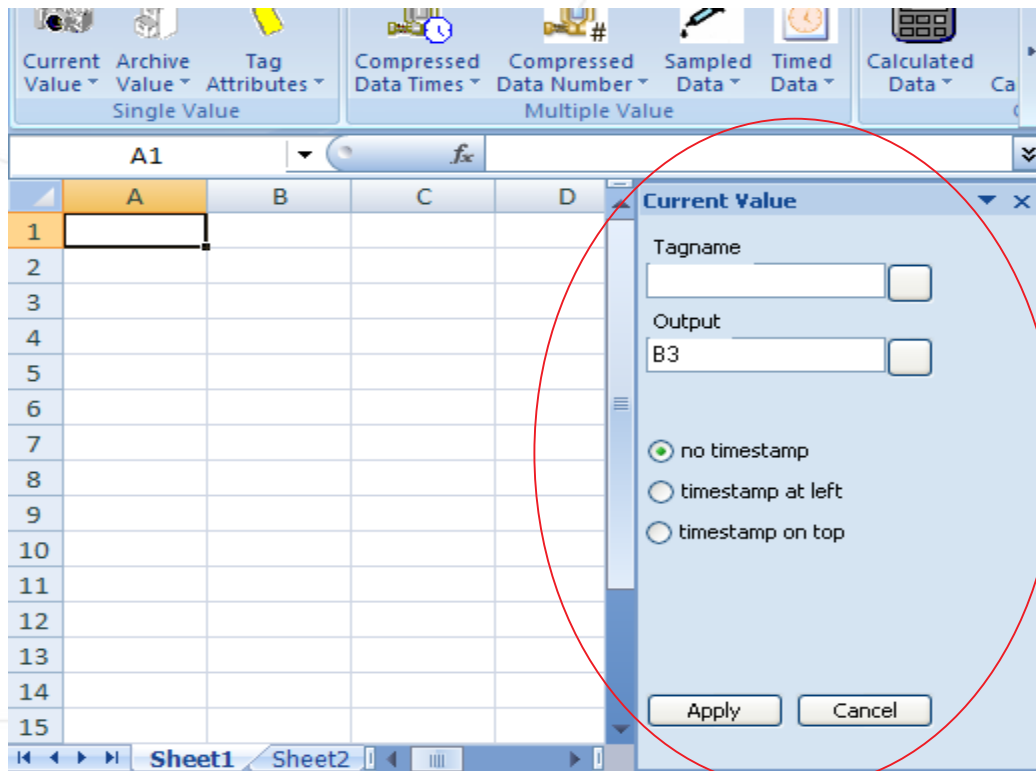
☐ show end time ☒ column(s)

☐ show min/max time ☐ row(s)

OK Cancel

New DataLink in Office 2007

- Dialogs replaced by Custom Task Pane
- Drives all pasting of DataLink functions

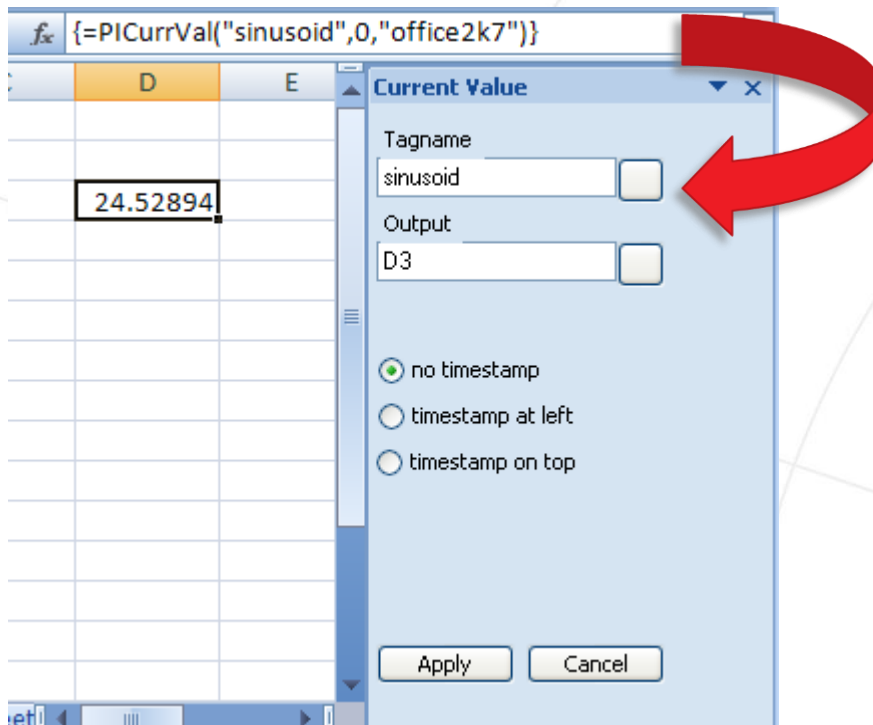


VALUE NOW, VALUE OVER TIME



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

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

Demo of DataLink in Office 2007

- Demo Time!!!

VALUE NOW, VALUE OVER TIME



The Central Theme: SEA

Simple

- Ribbon makes it simpler to use
- DataLink on Excel Server makes it simpler to deploy and manage installations



• Enterprise Aware



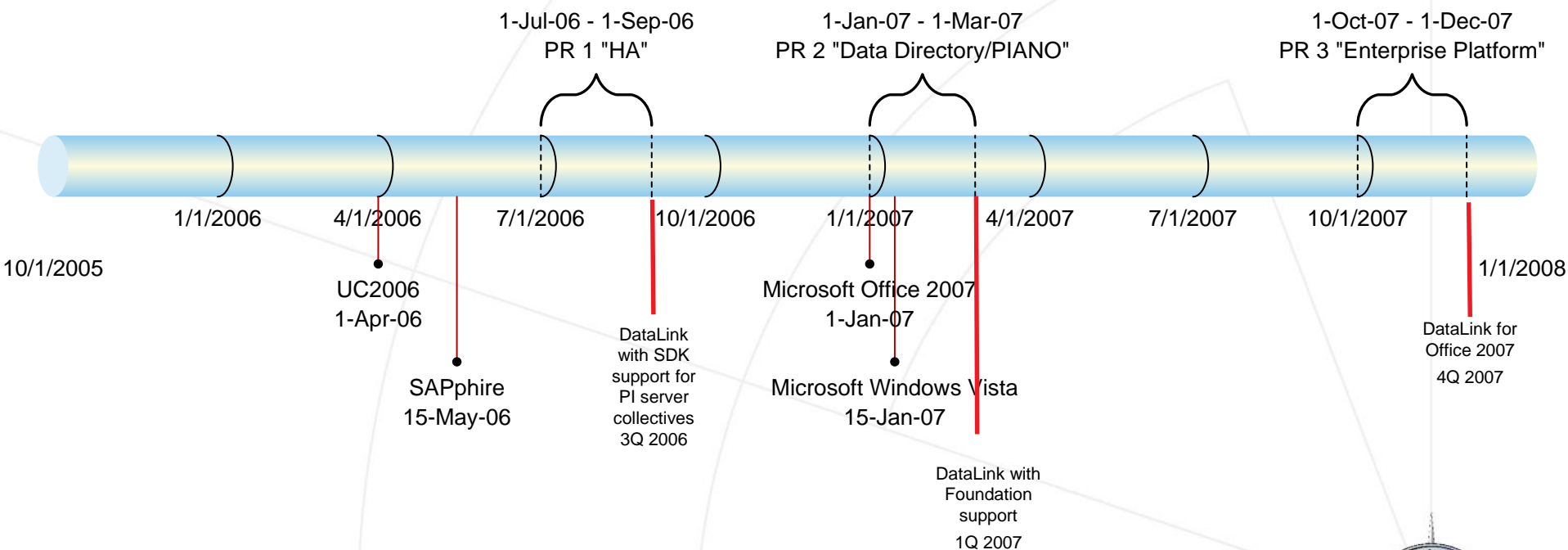
- DataLink on Excel Server is nice way to deploy DataLink at enterprise level



• Highly Available

- With the new SDK and its support of PI server collectives, data availability should increase

Engineering Roadmap Initiatives and Events



VALUE NOW, VALUE OVER TIME



Demo of High Availability

- Never too many demos!!

VALUE NOW, VALUE OVER TIME



Resources

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

VALUE NOW, VALUE OVER TIME

