

# Harnessing the Power of Calculations

Customer Empowerment Webinar #9  
September 27, 2017

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# Agenda

- Calculation definition
- Time conversion
- Calculated versions
- Template calculations
- Rule Sets

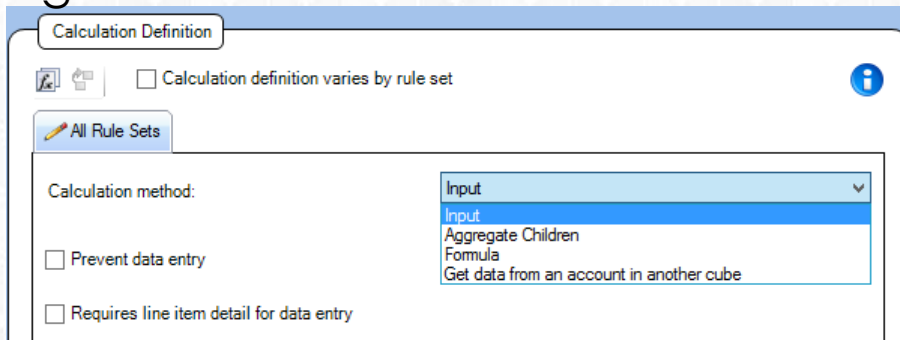


# Calculation Definition

- Calculations are set in the Accounts dimension
  - Prevents end users from changing formulas
  - Various formula types and functions available
  - Various formula types function differently across dimension levels (leaf vs. non-leaf members)

# Calculation Definition

Figure 1



Calculation Definition

Calculation definition varies by rule set

All Rule Sets

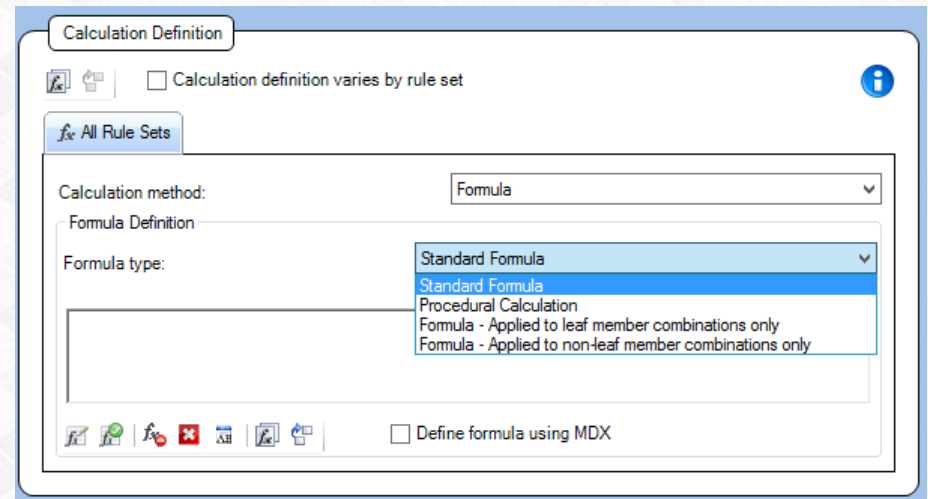
Calculation method: Input

- Input
- Aggregate Children
- Formula
- Get data from an account in another cube

Prevent data entry

Requires line item detail for data entry

Figure 2



Calculation Definition

Calculation definition varies by rule set

All Rule Sets

Calculation method: Formula

Formula Definition

Formula type: Standard Formula

- Standard Formula
- Procedural Calculation
- Formula - Applied to leaf member combinations only
- Formula - Applied to non-leaf member combinations only

Define formula using MDX

# Demonstration



# Polling Question # 1



# Online Help Topic

- Search “about account calculations”

## **Account calculations**

### **About account calculations**

About calculation methods

Calculation best practices

Calculation definitions and methods

Complex calculations and SSAS 2008 R2

- Direct link:

[http://documentation.prophix.com/p12help/en/Content/Accounts/defs\\_methods/about\\_account\\_calcs.htm](http://documentation.prophix.com/p12help/en/Content/Accounts/defs_methods/about_account_calcs.htm)

# Time Conversion

- How to calculate aggregate time values

- YTD

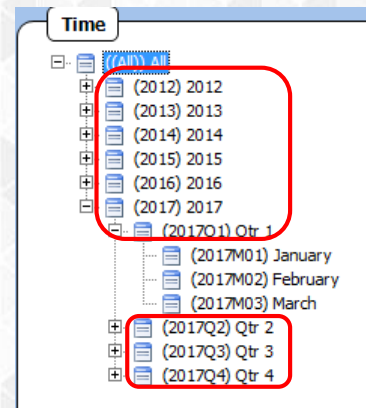
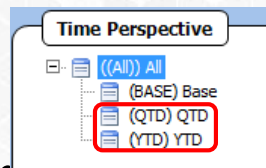
- QTD

- Total Year

- Total Quarter

- Total Month (in daily models)

- 7 types



Time Conversion:	Sum
Numeric Format:	Sum
Currency Conversion Method:	Last (Excluding Empty Values)
Account Note:	Last (Including Empty Values)
	First
	Average (Excluding Empty Values)
	Average (Including Empty Values)
	Formula

# Demonstration



# Online Help Topic

- Search “account dimension”
- Expand “Account dimension member properties”

Account Type

Default Time Conversion

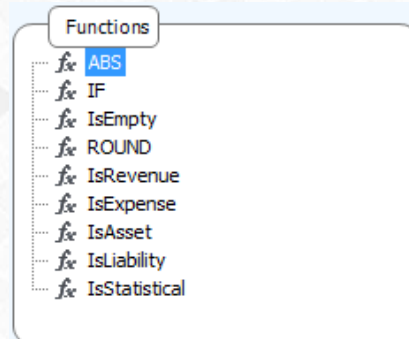
▣ Time conversion uses one of the following methods:

▣ Examples of time conversion methods

- Direct link:  
[http://documentation.prophix.com/p12help/en/Content/Accounts/account\\_dim.htm](http://documentation.prophix.com/p12help/en/Content/Accounts/account_dim.htm)

# Calculated Versions

- Typically used to calculate variances between versions
- Functions available vary from account calculation functions



# Rule Sets

- Assigned to versions
- Allow for different calculation methods across versions (ex. Revenue is an input for Actual, but calculates as Price X Units Sold for Plan/Budget)
- Actual and Plan Rule Sets exist by default
- May add Rule Sets (ex. Forecast rules may vary from Budget)

# Demonstration



# Polling Question # 2



# Online Help Topic

- Search “the version dimension”
  - Expand “Versions and calculation rule sets”
- Direct link:  
[http://documentation.prophix.com/p12help/en/Content/dims\\_and\\_members/version\\_dimension.htm](http://documentation.prophix.com/p12help/en/Content/dims_and_members/version_dimension.htm)

# Template Calculations

- Allows Advanced Users to create and maintain calculation logic
- Resulting values can only be stored against Input accounts
- Use
  - For one off calculations
  - To reduce model complexity
  - In place of MDX
  - If function necessary does not exist

# Demonstration



# Polling Question # 3



# Online Help Topic

- Search “functions for template formulas”
- Direct link:  
[http://documentation.prophix.com/p12help/en/Content/templates/functions\\_in\\_templates.htm](http://documentation.prophix.com/p12help/en/Content/templates/functions_in_templates.htm)

# Everything in Moderation – A Cautionary Tale

- Formula – Applied to leaf member combinations only
  - Alternate options: procedural calculations, template calculation
- LAG/LEAD/LagReset functions
  - Alternate options: template calculations, separate cube, infoflex
- Calculated versions
  - Alternate option: template calculations
- How can I identify potential performance issues with account formulas?
  - Analyze menu option in account dimension

# Summary

- Account calculations:
  - Provide consistency
  - Allow for one time setup
  - Prevent end users from modifying formulas
- Time Conversion calculates aggregate time periods or Time Perspectives based on leaf level data
- Rule Sets allow for different calculation logic across version types

# Summary

- Template calculations allow for:
  - More complex calculation logic
  - Advanced Users to define calculations
  - Use of Excel type functions

# Introducing the Prophix Community



- Launched May 2017
- Available from the Prophix Help Center
- Tool to communicate with your peers and share ideas
- Create/view posts
- Comment on posts

# Resources

- <http://support.prophix.com> for:
  - Technical Support
  - Community
  - Knowledge Base containing articles related to common issues and solutions
  - Link to recorded CEWS to date (under News/Events)
- <https://feedback.prophix.com> to add/review/vote for enhancement or feature requests
- <https://www.prophixacademy.com> for training

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# Questions?

