



NORTHROP GRUMMAN

DEFINING THE FUTURE

SEER User Conference

SEER Automator
April 10th, 2008

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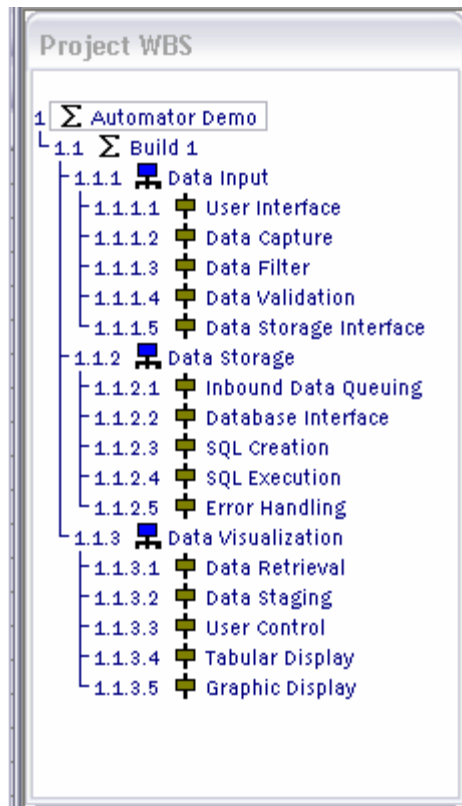
SEER Automator – Why?

- SEER-SEM contains a wealth of parameters
 - For Roll Ups
 - For Programs
 - For Components
 - We, the estimators, like to set each and every parameter!

So many parameters ... so little time!

Parameters, Parameters, Parameters ...

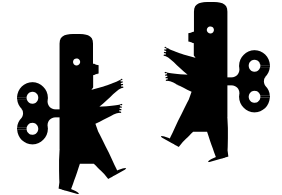
- Example SEER-SEM file:



- Question:
 - How many commands are needed to create this model?
- Answer:
 - 1507
- IF we add 2 builds then the number of commands is almost 5,000
- ... and we want to set each and every one!



SEER Automator: What is it?



- An application that runs "alongside" SEER
 - Interoperates with SEER
 - Manually pull data from SEER & push into SEER Automator
 - Automatically push data into SEER & pull data from SEER
 - Interoperates with Excel
 - Approx 1500 C# SLOC
- Allows sweeping changes using SEER Commands
 - Simple methods to change parameter values globally
 - Leverages regular expressions
 - Quick method for adding complete builds or programs

SEER Automator: Saving Time

- Deep copy
 - Duplicate an entire roll up (build)
 - Duplicate an entire program
- Apply "sweeping" changes
 - to similar components across multiple builds
 - Change "start date" for all programs to "April 1st, 2008"
 - Change Analyst Capabilities to "Hi, Hi, Hi+" for programs named "Data Visualization" for all builds
 - Change the % retest to "50%" for all programs in build 2
 - to outer limits
 - Set the "least" on new SLOC to 20% less than the "likely" while setting the "most" to 30% more than the "likely" for all components named "interface"



Demonstration



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