MOCA Version 2.3 Changes

Automated Business Case Analysis
MOCA 2.3 automatically generates a series of solutions for a particular case. The solutions that are automatically generated are the optimum refresh plan (smallest lifecycle cost), "perfect world scenario" where no parts go obsolete, a purely reactive strategy where all obsolete parts are managed using the user defined mitigation approaches (no refresh), and a strategy where every obsolescence event is solved with a design refresh. These four scenarios (perfect world, no refresh, all refresh, and optimum) are compared by breaking down the total cost of obsolescence management into sub-costs to identify where the money is being spent, and by deriving an obsolescence cost ratio to measure the relative costs of each of the obsolescence strategies.

Application of Solution Constraints
MOCA 2.3 allows the incorporation of multiple cost and time constraints when selecting the optimum design refresh solution. The constraints can represent inputs from technology roadmapping exercises that articulate when new technology or other changes to the system must occur and what special costs are associated with those changes. Users can combine multiple constraints together in logical AND and OR combinations.

Fixed Bugs
- Compute/Results->Close All Results Windows only closes the last results window created in some cases.
- Exiting the MOCA tool resets the machine's calendar to 2005.
- MOCA will generate an IllegalAccessException in the java Calendar function on startup (and fail to startup) if you have a Java Runtime Environment (JRE) that is version 1.3 or older.
- The re-qualification cost computed by MOCA at a design refresh has been revised so that the highest cost applicable qualification level is executed. Note 1: MOCA does not add the costs of multiple applicable qualification levels together. Note 2: the highest cost level does not have to be the "Full" qualification.
- The costing of bridge buys (last time buys) with buy quantities > 0 and mitigation factors > 1 has been corrected.
- The plot of cost as a function of time (Figure 1 in the MOCA version 2.2 user's guide) may have inaccurate bar heights when multiple events take place in the same year.
- The Part Synthesis Dialog box (Setup->Part Synthesis Control) fails to show the last part category defined. If no custom categories are defined when loading data, the omitted category is "Assorted". If custom categories are defined when loading data, then the last one encountered is not shown.
- Bar charts fail if the number of bars is greater than the number of samples.