New Features in AFT Arrow 5

- General interface
  - Updated interface and icons
  - Robust support for dual monitors
  - Native support for both 32-bit and 64-bit operating systems
  - Tabbed Primary window navigation with individual window pullout feature
  - New Startup panel allows user to choose engineering unit system (U.S./metric) and specify default fluid
  - Improvement of main menu navigation including redesign of the Checklist
  - Primary window toolbars now integrated into each Primary window
  - Capital and recurring cost data allows cost estimation for piping systems
  - New User Options window collects many of the previous user customization windows into one place – including Parameter and Unit Preferences, General Preferences and Workspace Preferences
  - Improved printing features includes use of company logo, user comments and titles, as well as graphical borders on all printouts
  - Help menu links to video tutorials on our website
  - User customizable themes
  - Output reports available in Spanish language
  - Curve fit configuration window parameter and unit selection have been improved
  - Files are automatically locked when opened to prevent multiple users from accidently opening the same file

- New Quick Access Panel
  - Access to Scenario Manager directly in interface
  - Access to Graph Sets directly in interface
  - Access to Workspace model overview map
  - Alternate display of Input and Output data for pipes and junctions
  - Users can pin the Panel or use it in flyout mode

- Scenario Manager
  - Access through Quick Access Panel from any Primary Window tab
  - Insert Scenario feature allows new scenarios to be inserted above any scenario including the Base Scenario thus creating a new Base
  - Delete All Children feature means children do not need to be deleted one at a time

- Workspace
  - Transparent icons gives more modern look to model
  - Mapping feature flyout allows birds-eye view of model and navigation
  - Dockable and movable Toolbox
  - Toolbox icon changes can be made using a right mouse click on the Toolbox
  - Select cursor or Pan cursor selectable on the Toolbar

    - Improved navigation speed for large models with thousands of pipes and junctions
    - Improved Inspection window more readable and has integrated Output data with Input
    - Input and Output data displayed on flyout panel integrated into Workspace
    - When trying to move locked pipes and junctions a lock symbol appears next to locked items that cannot be moved
    - Annotations capability great improved also allowing user's images to be inserted into the annotation
    - Improved pipe and junction graphical interference detection
    - Last selection on the Workspace can be reselected using F12
    - When merging models users can automatically create a group of merged pipes and junctions

- Model Data
    - General, Pipe and Junction data display sizes can be changed by user and more easily hidden
    - New zoom feature added
    - Curve fit raw data is now an available display parameter for junctions

- Output
    - General, Pipe and Junction output report display sizes can be changed by user and more easily hidden
    - New zoom feature added
    - New parameters available
    - Display multiple instances of the same parameter with different units
    - Output Control parameter selection improved and made uniform
    - Parameter units are selected next to the parameter in the grid

- Graph Results
    - Improved Graph Set creation and navigation integrated into Graph Results Quick Access Panel
    - Annotations can be placed directly on graphs

- Pipes
    - Fittings and losses can now have user "Favorites" which allows for much faster navigation to frequently used fittings
    - New Pipe Material Databases based directly on international pipe standards (databases coming soon)
    - Added ability to select all items in a section in the Global Edit window
    - Improved pipe inspection window
    - New heat transfer model allows convective heat transfer to be modeled simultaneously with a fixed heat flux

- Junctions
    - New Kv loss model for valves

    - Added ability to select all items in a section in the Global Edit window
    - Enhanced Relief Valve modeling

- Solver
    - Thermal sectioning for pipes and heat exchangers allows for more accurate temperature change calculations when temperature changes are large and specific heat is non-linear.
    - Improved convective heat transfer model for laminar flow
    - Handle varying ambient pressure with elevation

- Modules
    - GSC
        - new parameters for goals, pipe friction parameters as variables
        - new variable linking options
        - GSC Manager goal and variable re-ordering
        -