



# What's New in NX4 Usability

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# Journaling – Initial coverage



- ▶ CAM object creation
  - ▶ CAM session
  - ▶ CAM setup
  - ▶ Geometry group
  - ▶ Method group
  - ▶ Program group
  - ▶ Tool group
  - ▶ Operation
- ▶ CAM object actions
  - ▶ Delete setup
  - ▶ Delete objects
  - ▶ Rename object
  - ▶ Output CLSF
  - ▶ Postprocess
  - ▶ Generate tool paths
  - ▶ Replay tool paths
  - ▶ Delete tool paths
  - ▶ List tool paths
  - ▶ Move objects
  - ▶ Copy objects



# Dialog Enhancements



- ▶ Operation Navigator
  - ▶ Rename NONE
  - ▶ Object naming
  - ▶ Gouge Check Status
- ▶ Display inheritance status
- ▶ MCS display options
- ▶ Dialog changes for clarity and consistency
  - ▶ Cut angle
  - ▶ Holder offset
- ▶ Edit icon in point to point

The collage displays several NX dialog boxes illustrating the enhancements:

- Operation Navigator - Program Order:** Shows a tree view with 'NC\_PROGRAM' and 'Unused Items' containing '1234'.
- Format:** A menu with options like 'Layer Settings... Ctrl+L', 'WCS', 'MCS Display' (checked), and 'Reference Sets...'.
- Feeds and Speeds:** A dialog with tabs for 'Speeds', 'Feeds', and 'More'. It lists parameters like Rapid, Approach, Engage, First Cut, Step Over, Cut, Traversal, Retract, and Return, each with a numerical value and units (mmpm).
- Cut Angle:** A dialog showing 'Cut Angle' set to 'User Defined' and 'Degrees' set to '90.0000'. It includes a 'Display Cut Direction' button.
- Tool Axis:** A dialog with 'Specify Vector' and 'Standard Drill...' dropdowns, and checkboxes for 'Use Arc Axis' and 'Use Arc Axis'.
- Set Machining Data:** A dialog with a 'Reset from Table' button and 'OK', 'Back', and 'Cancel' buttons.



# Machining Wizard Builder

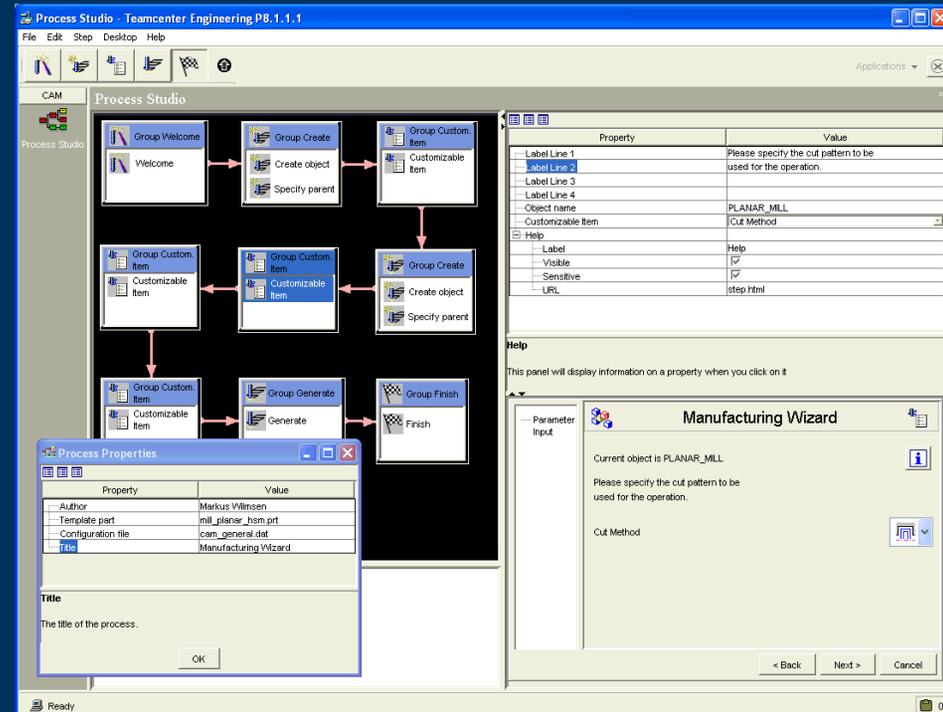


## Capability

- ▶ Graphical interface to support the definition of the process
- ▶ Plug-in to Process Studio – includes generic NX functions
- ▶ Stand Alone application
- ▶ Create CAM objects
- ▶ Access all customizable dialog items
- ▶ Select geometry by name
- ▶ Generate tool paths
- ▶ Custom help files

## Why is this important to you?

- ▶ Replace Process Assistants with a fully supported product
- ▶ This tool can now be used by a much wider user base who are not TCL programmers
- ▶ Your best users can save their processes for use by novice users
- ▶ Processes can be standardized



Drag and drop to create a step-by-step Wizard



# NX 4 Machining Wizard



## Capability

- ▶ Select from a palette of user defined pictures
- ▶ Lead the user step by step through a process
- ▶ Repeat adopted processes
- ▶ Demonstrate tasks to train users
- ▶ Teach the user what is required for different tasks
- ▶ Provide customized specific help

## Why is this important to you?

- ▶ Every user can use the best or standard practice
- ▶ New users become more productive faster
- ▶ Organize your common processes
- ▶ Reduce errors due to missing steps or forgotten entries

