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October 29-31, 2007
Plano, Texas

QAT Wizard – A must have tool for every Gen shop

Session # 27

October 30, 2007 9:45 a.m. – 10:45 a.m.

Rollie Stephens, QA Technologies

What Is QAT Wizard?

- A Suite of tools used to build custom Wizards for CA Gen.
  - Starter Pattern Model (*Enhanced)
  - Pattern Test Menu (*New)
  - Wizard Interview Manager (*New)
  - QAT Wizard Plug-in (*Enhanced)
  - Notes Manager (*New)
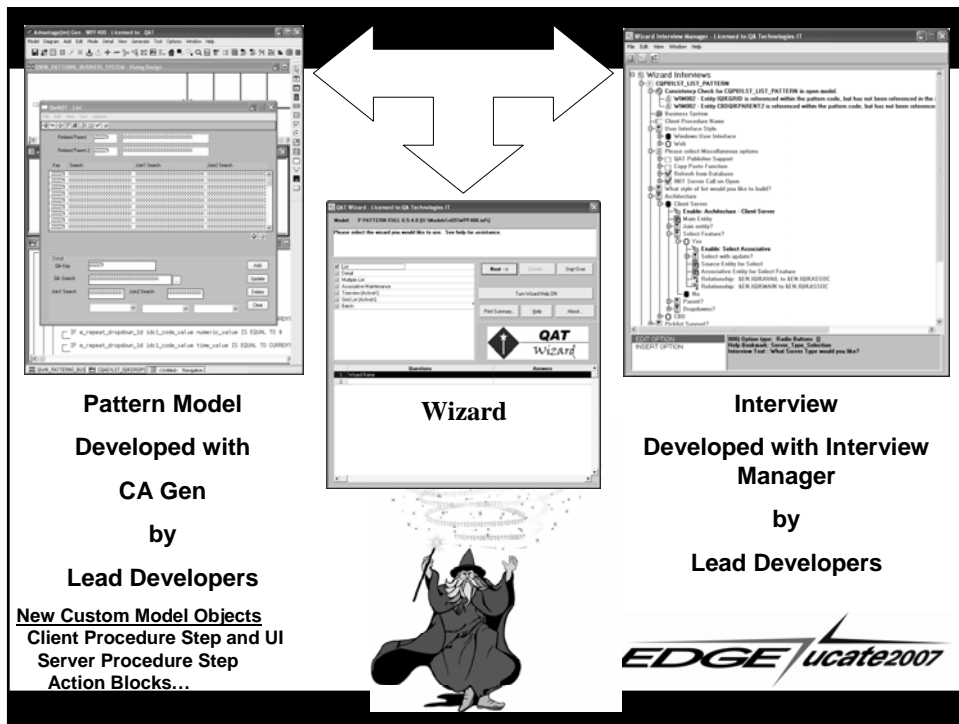 - QAT ReFactor (*New)

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What Is QAT Wizard?

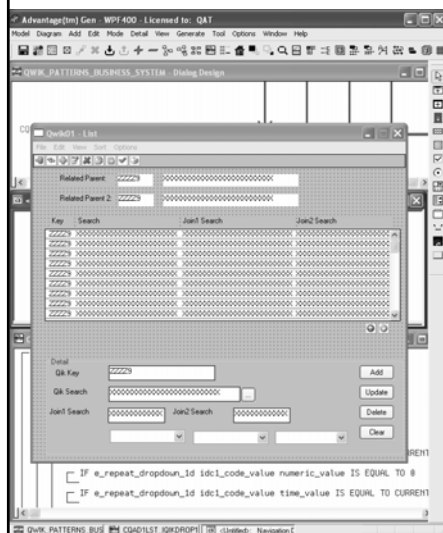The Wizard Control Panel is used to launch the various Wizard tools.

QAT Wizard Benefits

- Build working applications from custom patterns that apply shop standards automtically - in minutes
- Raise productivity by a factor of 5+
- Raise quality and consistency by automating the initial build from custom patterns
- Reduce standards training cost by 50%+

Pattern Model

Developed with

CA Gen

by

Lead Developers

New Custom Model Objects
Client Procedure Step and UI
Server Procedure Step
Action Blocks...

Wizard

Interview

Developed with Interview Manager

by

Lead Developers

Develop Pattern Model

- A CA Gen Model
  - Pattern applications coded against supplied pattern ERD (substituted during Wizard)
  - Wizard Options and Wizard Actions used to provide optional code and advanced customization

Start from the QAT Pattern Model and Customize

- A robust and proven development standard and a set of standard patterns with many options
- Patterns Include List, Detail, Associative, Multiple List, Grid, Tree, Batch and more...
- Support for Web and Windows interfaces
- Support for Client Server and CBD server architectures
- Support for Hub and Operation Server Styles
- A working example with advanced Wizard Options and Wizard Actions working against pre-defined Wizard Interviews

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Develop Pattern Model Wizard Options

- Used to create optional code that gets built only when requested during the Wizard Interview
- For example, List with parent, List without parent
- Wizard Options are simple to implement
  - Just write and IF Statement to surround the optional code

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Develop Pattern Model
Wizard Actions and Options

- Action Diagram Notes and corresponding statements that direct the Wizard to customize code
- Wizard Action Notes start with "<WIZARD_ACTION_"
  - Change Group View Sizes
  - Delete Views and Attributes
  - Synchronize Views
  - Change Domain
  - Generate Set Statements
  - Prompt for Values
  - Prompt for Pstep and Action Blocks
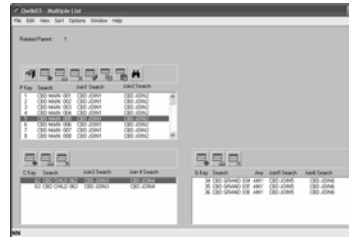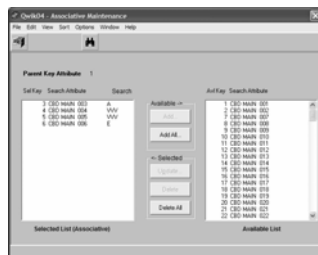 - ... More
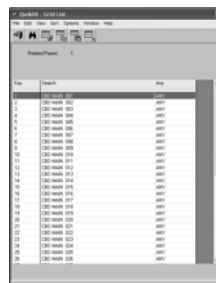
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List   **Detail**   **Multiple List**

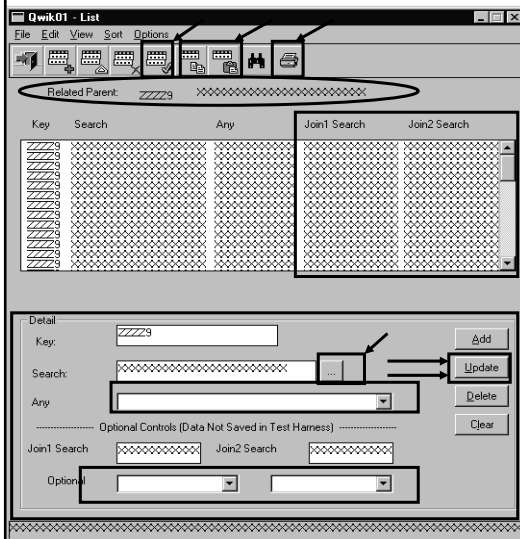**Associative**   **Grid**   **Treeview**
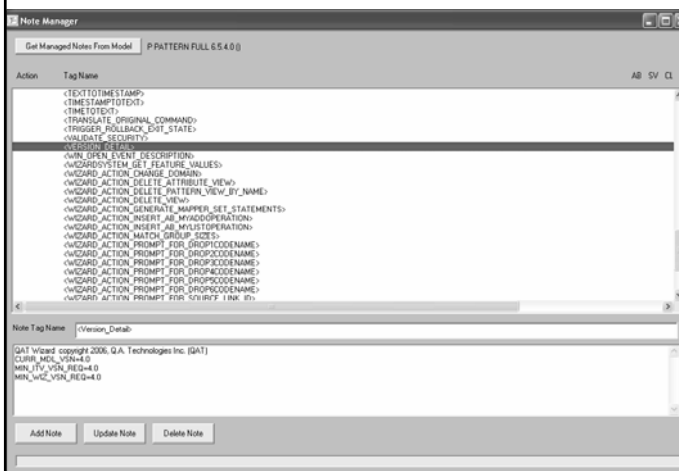
Multiple Options Supported

List Wizard Options:

- ▪ Related Parent
- ▪ Embedded / Separate etail
- ▪ Multiple Row update
- ▪ Cycle Update
- ▪ Select Associative
- ▪ Copy / Paste
- ▪ Report Generation
- ▪ Dropdowns (Up to 3)
- ▪ Pick Lists (Up to 3)
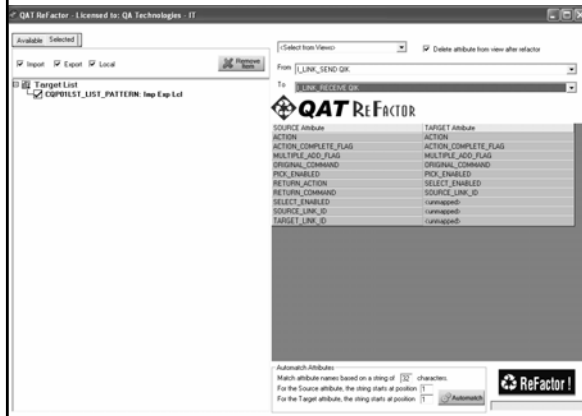- ▪ Multiple Table Support

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Notes Manager

▪ A New Plug-in for CA Gen That Allows For Common Notes to be managed with consistency across an entire model.

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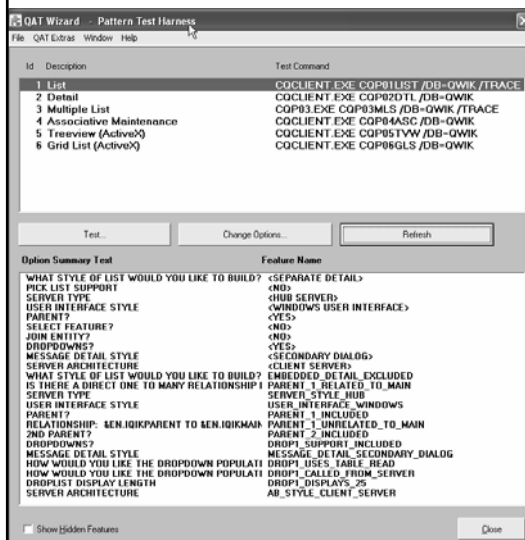
ReFactor Entities/Work Sets

- **QAT ReFactor**
- Automatically substitutes views referenced in existing code Between **Unlike Types** According to **Defined Mappings**
  - Change All Occurrences of a View to any other View (Unlike Types)
  - Targets Single Action Block, Entire Action Block Chain or Entire Model

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Pattern Test Menu

- Runtime Test Harness is a Critical Success Factor
- This automated test menu supplied in the starter model
  - Current Wizards and Test Settings are returned from the Wizard Database
  - Use Interview Manager to change the current test settings
  - Current settings are retrieved in each pattern using supplied functions and this code gets removed when the Wizard builds the target application code

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Wizard Interview Manager

Visual Wizard Interview Designer
- Decisions (Custom Values)
- Entry Fields For Custom Values
  - Used to customize code (i.e. Group Sizes etc.)
- Prompting for Model Objects
  - Entities(Spec and/or Implementation), Attributes, Relationships and Business Systems
- Option Conditions (Skip Question Based on Interview Decisions)

Interview Help

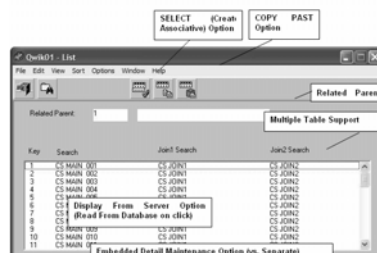### Create Context Sensitive Help Pages for the Interview as <u>Word</u> or <u>PDF</u> Documents
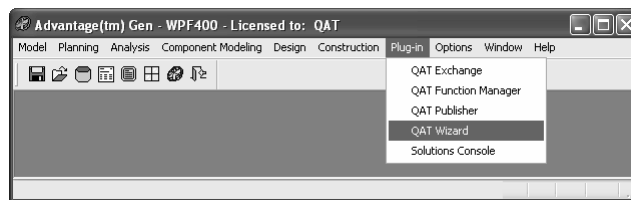

- **Interactive Help – Gives help for the current option during the interview**
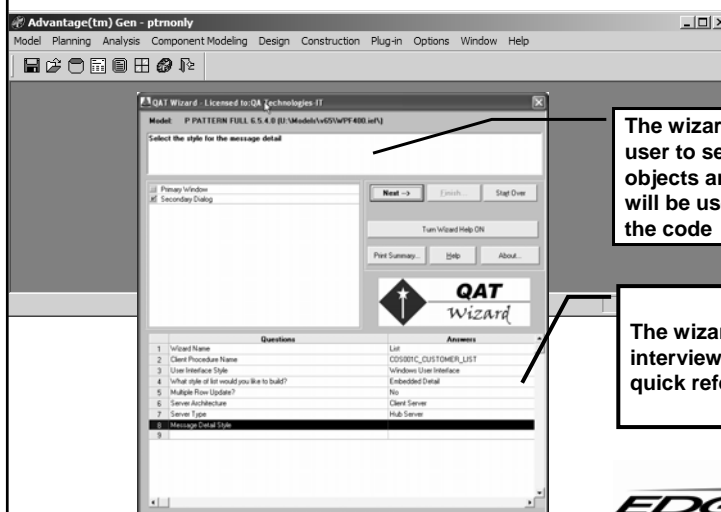
- **Online Help – Gives details about the overall product**

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QAT Wizard Plug-in

- The wizard is delivered as a Plug-in for CA Gen
- Use the Plug-in menu to start the Wizard

QAT Wizard Plug-in

The wizard prompts the user to select model objects and options that will be used to customize the code

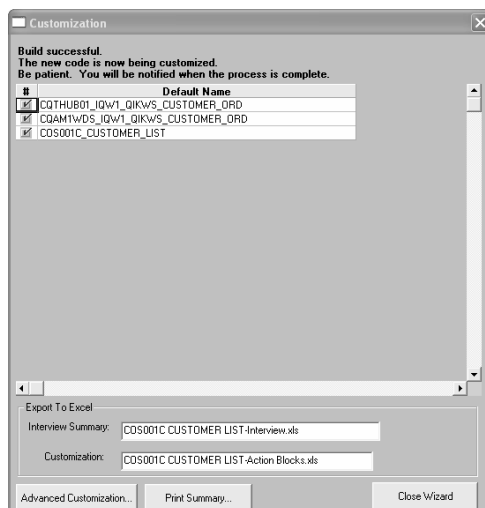The wizard summarizes the interview for printing and quick reference

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QAT Wizard Plug-in

- Executes the Interview against the Pattern Model
- Prompts for objects to be selected from the model
- Prompts for entry fields and choices as defined in the interview

Customization

- The wizard presents a list of new objects that get created
- The summarize interview questions and answers
- Print and/or Export Summaries to Excel

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Value / USE Statement Prompts

- Automatic Prompting
- Prompt for literal values like System Acronym
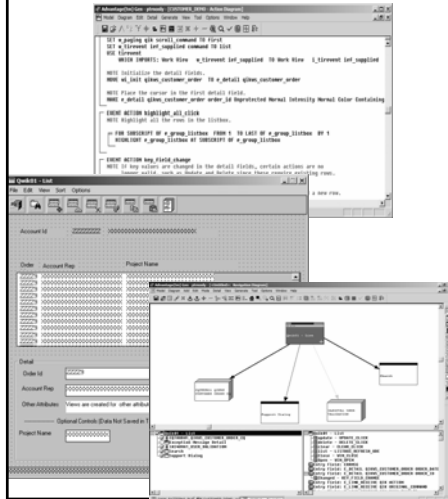- Prompts for inserting of existing Psteps and Action Blocks

Advanced Customization

- Insert new CASE statements with associated Note and USE statements to call existing action blocks that were not planned as prompts in pattern
- Works for Client and/or Server Procedure Steps

End With A Functioning Window or Web Page

- **The wizard produces fully customized transactions**
  - Client Procedure
  - Server Procedure(s)
  - Action Blocks
  - Window / Page
  - Dialog boxes

- **The new transaction is ready to package and test. Business rules can now be applied as needed.**

EDGE Needs Your Feedback!

- Please complete the conference evaluations
- Your feedback/suggestions are necessary to continue to bring you top-notch events

- Thank You for Coming – See you in 2008!