

Gen Studio Developer

Agenda



- ▲ Background
- ▲ Introduction to Gen Studio Developer
- ▲ Demonstration
- ▲ Summary
- ▲ Next Steps
- ▲ Q&A

Background

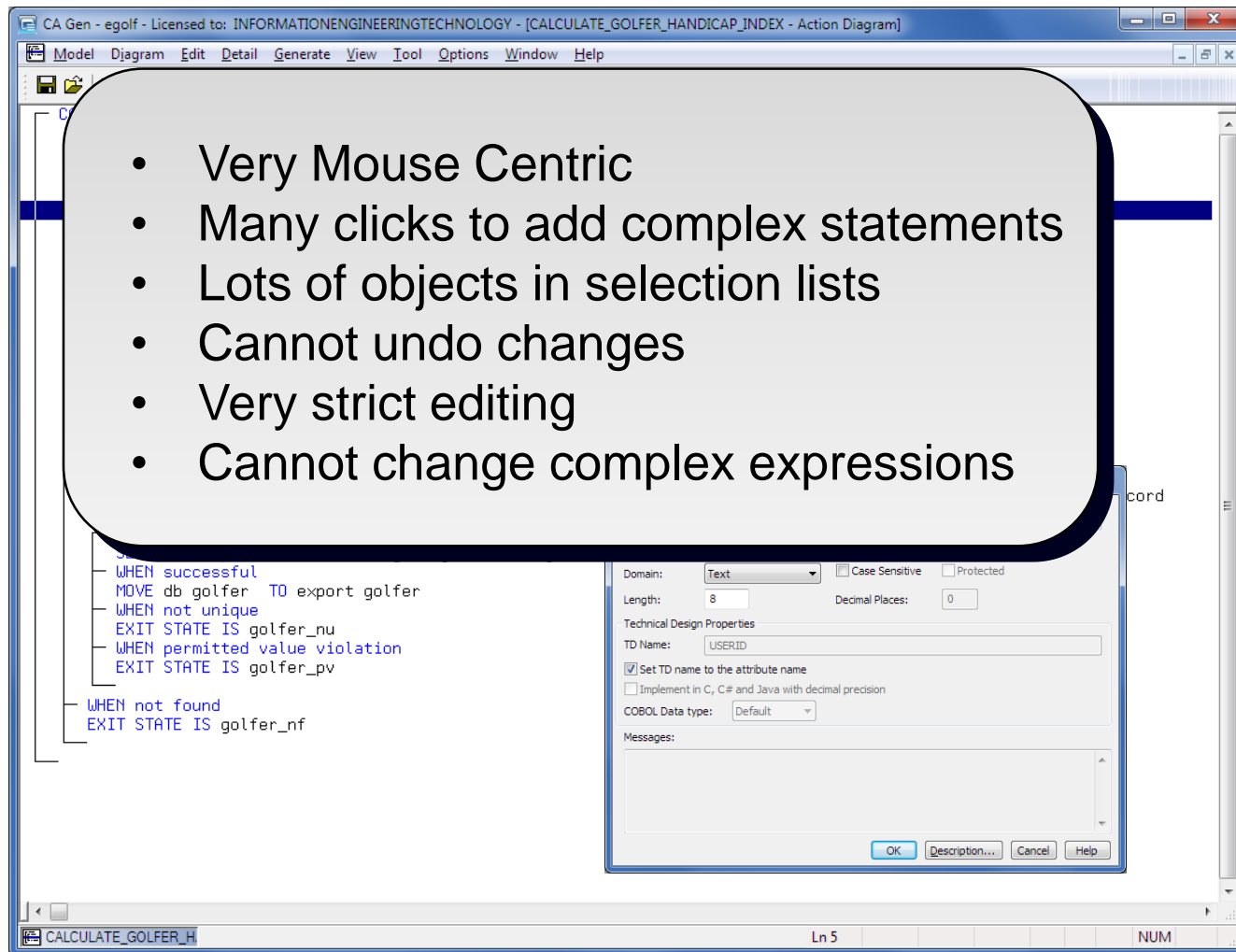


- ▲ Key issues raised by some Gen customers
 - ▲ Hiring / retaining Gen developers
 - ▲ Training new developers
 - ▲ Developer dissatisfaction with Gen
 - ▲ Multiple tools with different UIs
 - ▲ Toolset / Studio / Trace / Build Tool / Ency Clients
 - ▲ Toolset Issues
 - ▲ Gen seen as 'legacy'
 - ▲ Enhancements slow to deliver

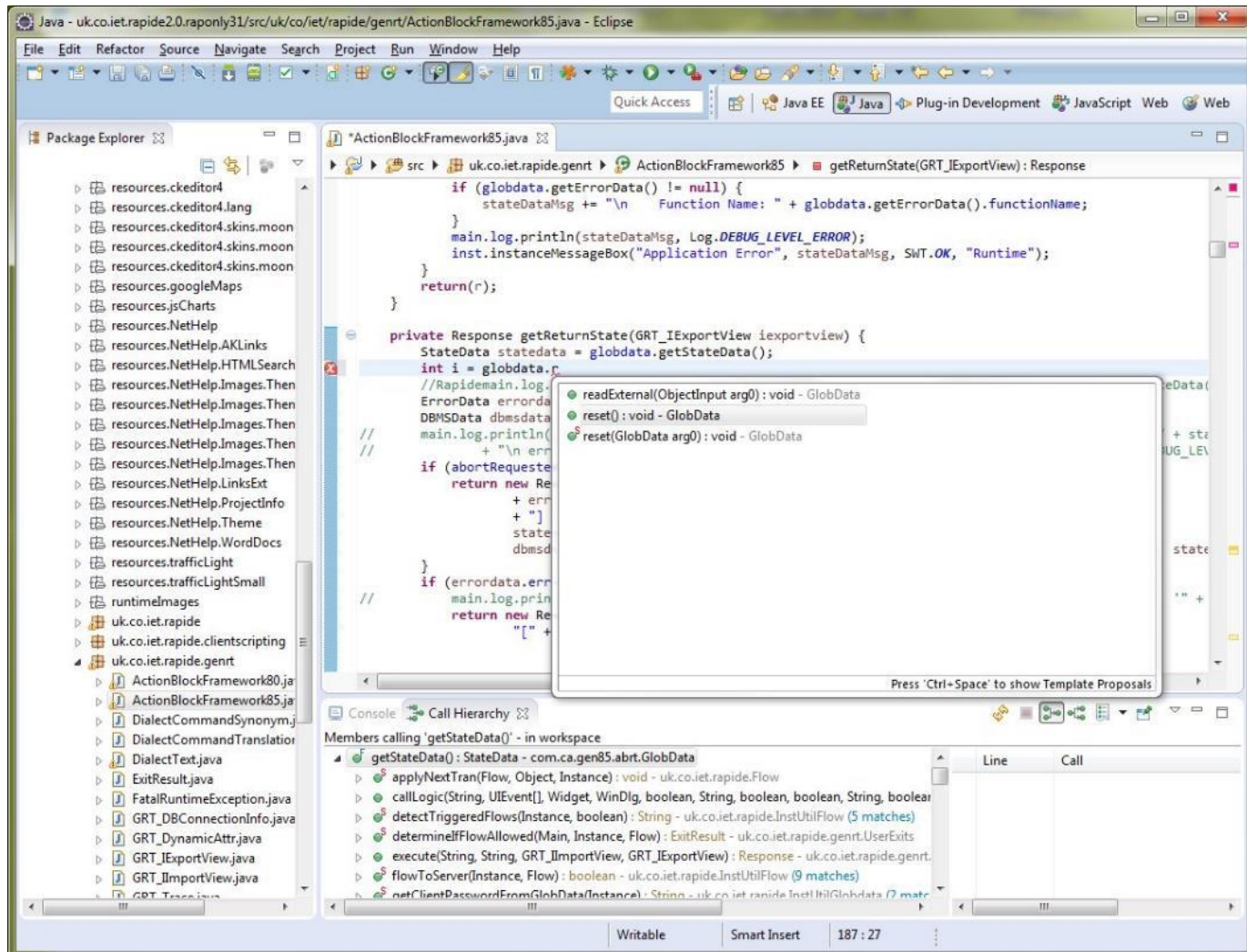
CA Gen Toolset



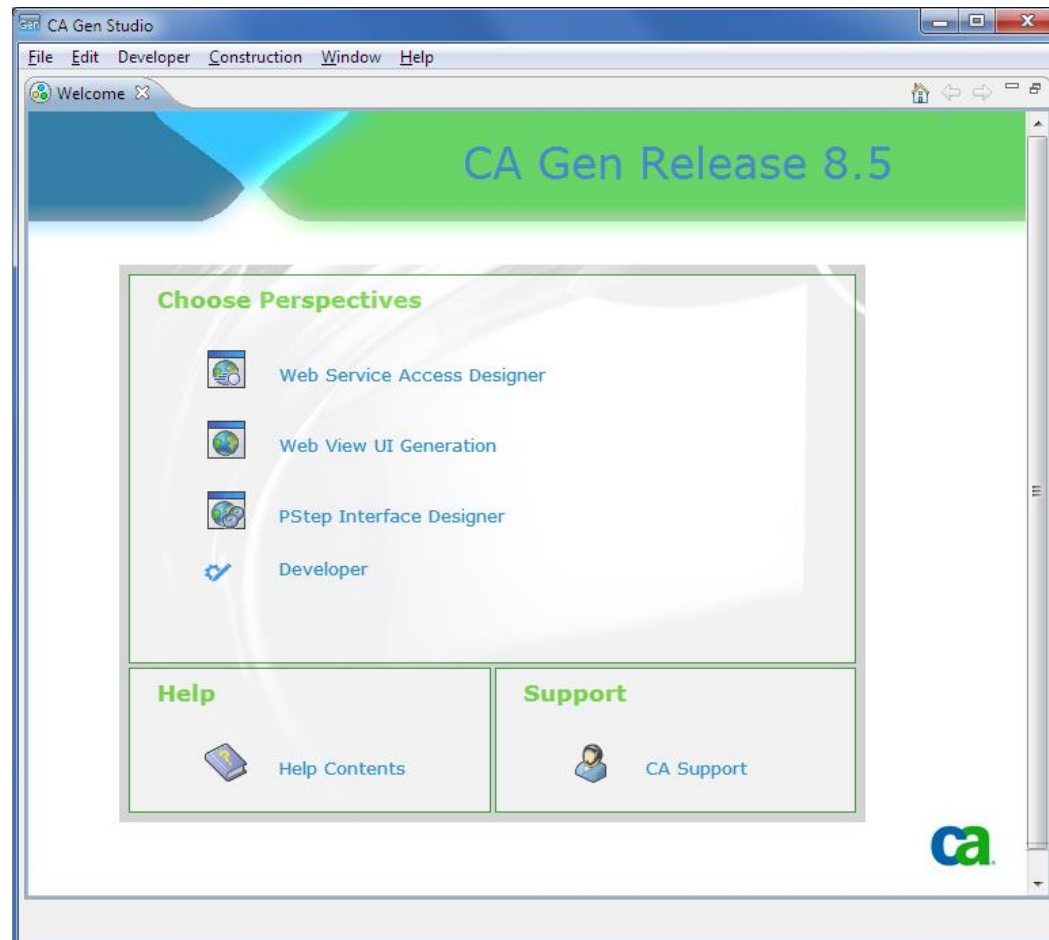
- Very Mouse Centric
- Many clicks to add complex statements
- Lots of objects in selection lists
- Cannot undo changes
- Very strict editing
- Cannot change complex expressions



Developer Expectations - A Modern IDE



Gen Studio



Gen Studio Developer



CA Gen Studio

File Edit Developer Construction Window Help

Developer

Local Models Explore EGOLF SERVICES

Filter
Name: %GOLF%
☐ Distinct results for Expand/Usage

Object
Action Blocks (filtered on %GOLF%)
ADD_GOLFER
CALCULATE_GOLFER_HANDICAP_INDEX
DELETE_GOLFER
EGOLFER_HOME (pstep)
EGOLFER_SCORE_CARD (pstep)
EGOLF_SERVICES_HOME (pstep)
IGLF1011_GOLFER_COMPUTEINDEX_S
LOGIN_GOLFER
MAINTAIN_GOLFER (pstep)
uses ADD_GOLFER
uses CALCULATE_GOLFER_HANDICAP_INDEX
references GOLFER
references IGLF1_GOLF_SCORING_RECORD
uses DELETE_GOLFER
uses LOGIN_GOLFER
uses UPDATE_GOLFER
UPDATE_GOLFER
Business Systems
Command Editor
Data Structure Editor
Dialects
Dialog Flow Diagram
Entity Types
Exit State Editor
Procedures
Procedure Steps
Subject Areas

MAINTAIN_SCORING_RECORD (EGOLF SERVICE) *ADD_GOLFER (EGOLF SERVICES)

```
ADD_GOLFER
IMPORTS:
EXPORTS:
LOCALS:
ENTITY ACTIONS:

ACTION BLOCK
CREATE <unnamed>.golfer
SET password TO import.golfer.password
SET first_name TO import.golfer.first_name
SET last_name TO import.golfer.last_name
SET email_address TO import.golfer.email_address
SET userid TO import.golfer.userid
WHEN successful
```

Suggestions
Filter: ""
READ Read persistent data into entity views
READ_EACH Read multiple rows of data
REPEAT Loop until a condition is true
RETRY TRANSACTION Abandon entire transaction and retry from the start

Dialog Flow - EGOLF SERVICES

DJS_CAP_HANDICAPPER_01_00_I
EGOLF_SERVICES
EGOLF_SERVICES_HOME
EGOLFER_HOME
EGOLFER_SCORE_CARD
MAINTAIN_SCORE_CARD
LIST_SCORING_RECORD
MAINTAIN_SCORING_RECORD
MAINTAIN_GOLFER

Entity Type GOLFER

Properties
Type: Entity Type
Entity Type Name: GOLFER
Parent Subject Area: GOLFERS
☐ Business Object Type Encapsulation Type
☐ Single Occurrence Open
Expected Number of Occurrences
Minimum: 0
Average: 25
Maximum: 100
Expected Growth
0 % per
Year
☐ Transient ☒ Set the TD name to the type name
TD Name: GOLFER
Description

Gen Studio Developer



- ▲ Provides a complete application development capability within Eclipse using Gen Studio
- ▲ Objectives
 - ▲ Improve developer satisfaction
 - ▲ Make Gen easier to learn & use
 - ▲ Enable faster enhancements to Gen
 - ▲ Improve developer productivity

Approach



- ▲ Maximise compatibility with current toolset
 - ▲ Ease of transition
- ▲ Respect the strengths of the current Gen toolset
 - ▲ It does a lot of things very well
- ▲ Simplification
 - ▲ Remove unnecessary features
- ▲ Focus on key areas for improvement
 - ▲ Usability
 - ▲ Functionality

Phase 1 Scope



- ▲ Data Model
- ▲ Activity Hierarchy
- ▲ Work Sets
- ▲ Business Systems
- ▲ Commands / Dialects / Exit States
- ▲ Dialog Flow Diagram
- ▲ Procedure / Procedure Steps
- ▲ Action Diagrammer
- ▲ GUI Designer
- ▲ Screen Designer
- ▲ Data Structure & Technical Design
- ▲ Packaging
- ▲ Rapide Generator

Subsequent Phases



- ▲ Direct Editing
 - ▲ Initially CSE only
- ▲ Integrated IET Products

Current Status

▲ Beta Test

- ▲ Started Feb 2017
- ▲ Initially restricted to 3 sites

▲ Customer Reaction

- ▲ A longer life for CA Gen
- ▲ We will still dare to invest in CA Gen

▲ Very Positive Developer Response

- ▲ It is more intuitive to use (it reminds of RDz, Visual Studio, Eclipse)
- ▲ It takes a long time to get used to the old toolset; Gen Studio is easier to “get used to”
- ▲ It is not so “restricted” when you code (if you have forgotten how to do something, you get much more help)
- ▲ More manageable, and easy to find out where to do what
- ▲ Search is much easier
- ▲ It is faster to code programs, because you get a lot of help: e.g. auto suggest

- ▲ Keep up to date at www.iet.uk/StudioDeveloper