

Introduction to Rapide







 Provide a general introduction to Rapide
 Understand the key advantages of using Rapide to build cross-platform applications using CA Gen





▲ Background
 ▲ Rapide Objectives
 ▲ Technical Overview
 ▲ Demonstration

Reasons you are still using Gen



Maintainability of applications
 Stability of generated applications
 Platform Independence
 Reduced need for technical skills
 Scalability of development team size
 +
 +

Typical Customer Situation



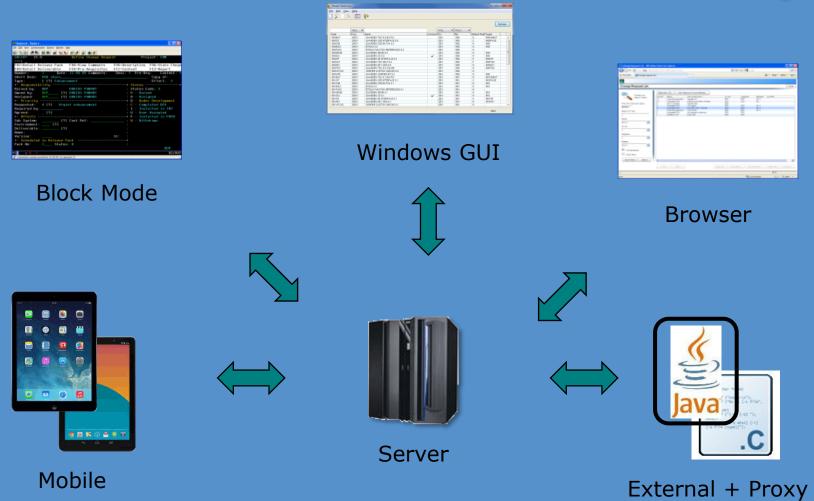
Gen used for many years
 Significant Investment

 CA Gen Models = Applications & Business Knowledge
 CA Gen Skills, Processes and Know-how

 Servers / Batch - very happy
 UI...

User Interface(s)





Rapide Objectives



Develop modern, dynamic user interfaces with CA Gen
 Multiple Platform choice

- ▲ Desktop
- ▲ Browser
- ▲ Mobile

Easy implementation for existing Gen applications
 Enable transition from Windows GUI and Block Mode
 Use same Gen skills and models

Rapide Architecture







Multiple Platforms



Runtime



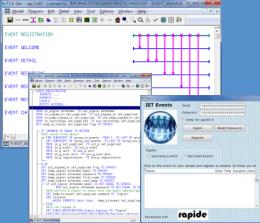


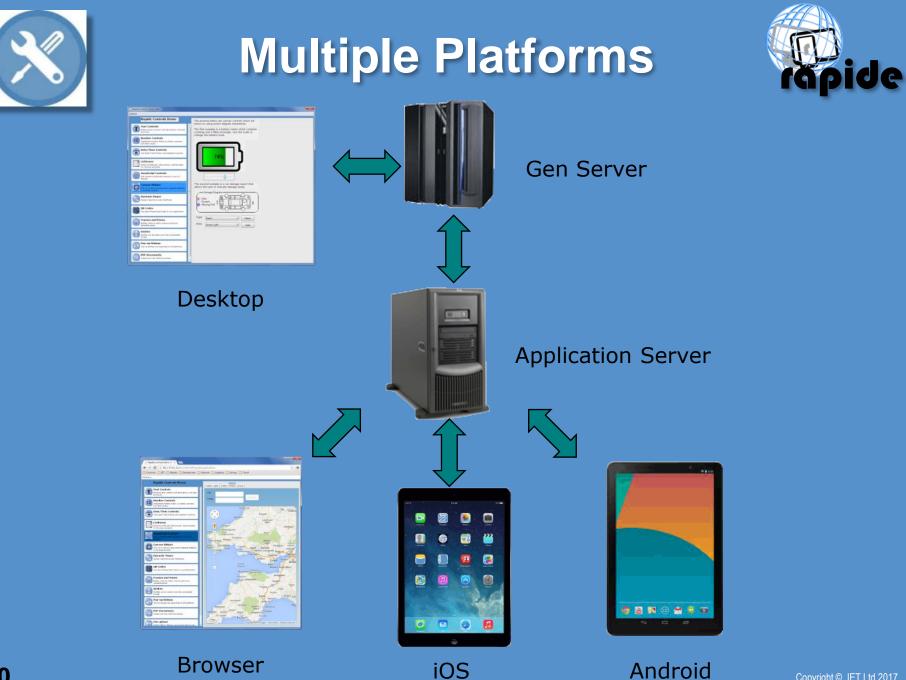


Modelling



▲ Design using Gen Toolset ▲ Using standard Gen techniques ▲ Action Diagraming ▲ Dialog Flow Design ▲ User Interface Design ▲ Rapide Plug-in ▲ Enhance UI Design ▲ Definitions stored in the model ▲ Migrated with procedure step ▲ No change to model management procedures





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▲ Client Platform

- ▲ CA Gen generated Java code for action diagrams and client/server comms runtime
- ▲ Rapide Runtime for window/dialog management
 - ▲ Java Based
 - ▲ Uses standard, proven frameworks
- ▲Gen Servers
 - ▲ No Change, No Re-generation, Unaffected
 - ▲ Same servers can support both CA Gen and Rapide clients



Rapide API



Comprehensive API

 Uses action diagram methods
 Over 180 methods and properties

 Control dialog flow

 Control dialog flow
 Local persistent storage
 UI interaction
 JavaScript
 File Upload / Download

IF in_keep_signed_in ief_supplied flag IS EQUAL TO "Y"
NOTE save details in cookie
INVOKE temp rapide object.clientDataStorePut("IetEventUser", out_signin attendee email)
INVOKE temp rapide object.clientDataStorePut("IetEventPwd", out_signin attendee password)

Rapide Mobile API



▲ Action Diagram Functions

- ▲ Geo-location
- ▲ Camera
- ▲ Phone
- ▲ Mail
- ▲ Mapping
- ▲ etc.

Push Notification

- ▲ Uses APNS (Apple Push Notification Service) for iOS
 - ▲ Includes Badge support
- ▲ GCM (Google Cloud Messaging) for Android







Extension Libraries



▲ Access Java Libraries using Gen Action Diagram Code

▲ Examples

- ▲ Reporting using JasperReports
- ▲ PDF File Creation using Apache PDFBox
- ▲ Quick Response Codes using Google zxing



Advanced User Interface





Widgets and Controls







Multi-Lingual



Block-Mode Option







Extended set of widgets

 Date/Time Picker, Progress Bar, Slider and much more

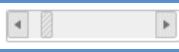
 Comprehensive Listbox support

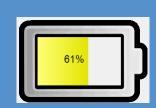
 Trees, Editable Grids, etc

 Native controls on Mobile devices
 Support for custom Java and JavaScript controls

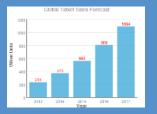
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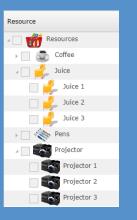
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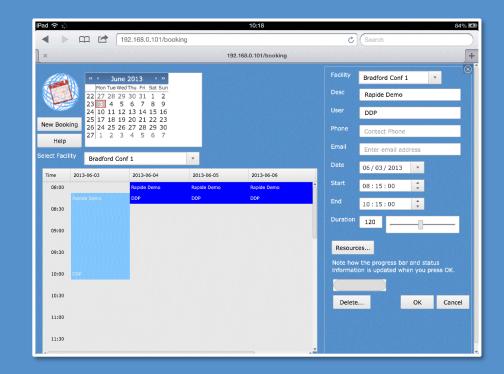


Responsive Layout



▲ Responsive applications ▲ Automatic re-size / re-position controls





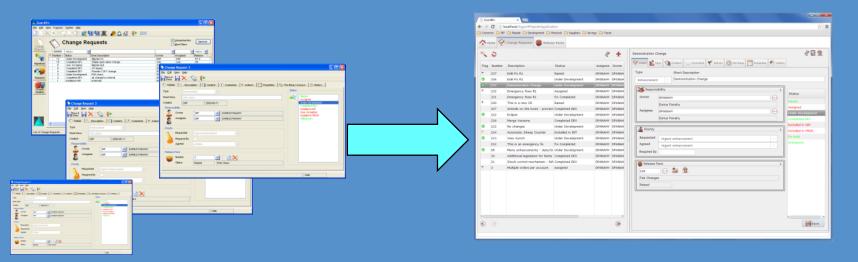






▲ Frames allow embedded windows / dialogs including tabs and multiple-instance tabs

▲ Much more simple to design and implement sophisticated user interfaces







- Strings generated into string resources file (Unicode)
- ▲ String resources translated into language specific files
- ▲ Language dynamically loaded based on User's Locale



Block-Mode Option



▲ Uses Existing Screen Design
 ▲ Automated Enrichment of the UI
 ▲ Automated Conversion to GUI Design
 ▲ Options for window or co-operative packaging
 ▲ Automated conversion to co-operative clients & servers

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Block-Mode Option



Provides an easy approach to transform existing Gen block-mode screens to a web and/or mobile UI

- ▲ Low Cost
- ▲ Low Risk
- ▲ Quick
- ▲ Minimise changes to the model
- ▲ Minimise changes in development techniques
- ▲ Improves user productivity and satisfaction
- Enable phased transition based on business benefits
- ▲ Enables platform change

Summary



Protect investment in CA Gen Models
 Utilise existing skill-sets
 Build State of the Art Applications
 Cross-Platform Capability
 Integrated Development Tool
 Native look and feel on Mobile/Tablet

For more information: www.iet.uk/rapide