

Web Services GENius

CICS Web services for CA Gen

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Who we are and what we do



Application Modernization

- Migration into CA Gen
- •Platform switch with CA Gen
- Web and Mobile delivery

CA Gen Upgrades

- Upgrades to CA Gen
- •All platforms, all versions
- •Extensive experience

CA Gen Developmer

- Development teams
- Onsite CA Gen resources
- Offsite CA Gen development

CA Gen Consultin

- Performance tuning
- •Technical configuration
- Architecture and Processes

Two companies, separate brands Common ownership and control

- □ CA Gen services
- Application modernisation
- Australian private company
 - Established 2002

RESPONSESYSTEMS

- CA Gen productivity tools
- APM and Web Service tools
- ☐ UK private company
- Established '96, acquired '07
- Global CA Gen services partner
- ☐ Global CA Product reseller
 - Technology partner



Web Services GFNius •CICS web services for CA Gen mainframe applications

APMConnect

•CA Gen application monitoring

Upgrade Console Automation for accelerating CA Gen upgrades

QA Console

 Automated QA for CA Gen – Accelerates DevOps

Access Gen

•CA Gen developer productivity acceleration

Customer case studies





Web Services GENius is enabling mobile delivery

- One of the primary security agencies within Australia
- Mobile delivery of existing capabilities to the frontline is a key goal
- Web Services GENius is being used to expose RESTful Web Services
- No changes to the underlying applications are required
- No interruption to committed programs of work are required
- Exposure of RESTful APIs enables direct mobile consumption
- ✓ Web Services GENius has accelerated mobile delivery for the agency.

What is driving the need for CICS Web services?





Majority of internet access now mobile-based

Internet usage is increasingly mobile-based, and organisations need to quickly expose existing application functions from their application portfolios



Exposing proven, self-contained functional modules as services, without having to change those modules, means existing applications become valuable assets



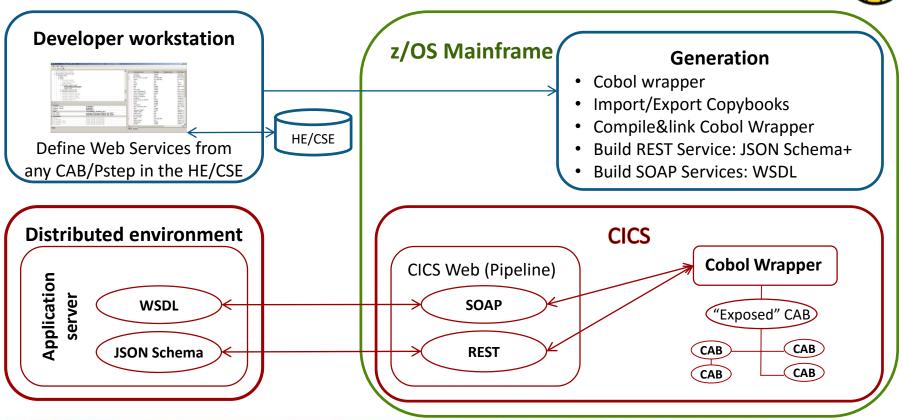


Emerging new architecture patterns

Monolithic application structures can be incrementally exposed as Web Services, rather than undergoing expensive "restructuring" and refactoring

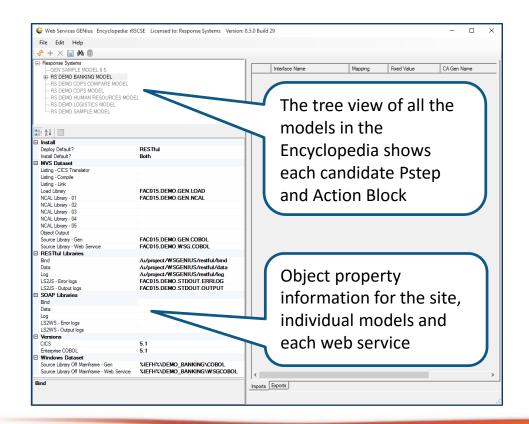
Web Services GENius – Solution architecture





Configuring your site and models





A single windows client

- Simple clear layout
- Interacts with Encyclopedia
- Enables all configuration
- Where Web Services are defined

Tree nodes are hierarchical

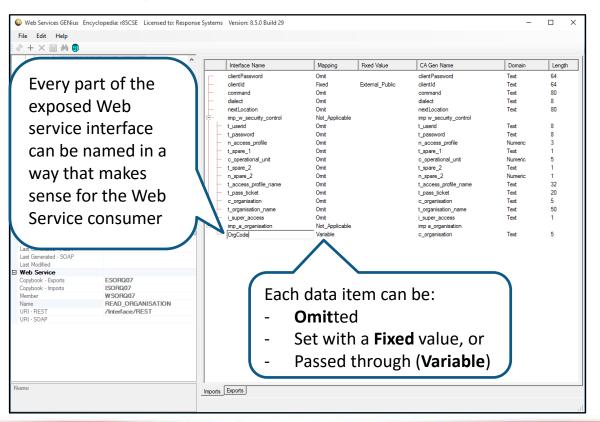
- · Root node for site-level config
- Model for model-specific config

Drag and drop to replicate

 Configurations can be dragged from one model to another model.

Creating Web Services





Web Service definitions

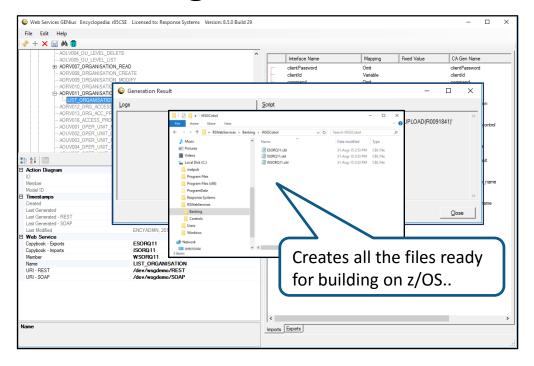
- On CABs or Psteps
- Multiple Web Services

Configured as required

- Named as needed
- Data exposed as necessary
- Hide or Fix any attribute.

Generating Web Services





Simple click-to-generate

- Generate single or multiple WS's
- Creates Cobol and control files
- Packaged as a discrete "Remote"

Build the generated RMT on z/OS

- Supplied batch job for Build, OR
- Supplied ISPF panel

Build deploys all artefacts

- JSON/WSDL created
- URI's operational and active.

Building Web Services



```
Web Services GENius - Black Box (for Remote CSE)
COMMAND ===>
The following fields are required:
 RMT file
                 : FAC015.TEMPDATA(R5590908)
    (Fully qualified with no quotes)
                                 Specify the location of the
                                 uploaded Remote file
                    Install interfaces completed
```

And see the build results for each Web Service

Build using supplied ISPF panel

- Takes the generated Remote file
- Builds all artefacts for use

Deploys all artefacts for use

- JSON and Bind files for RESTful APIs
- WSDL for SOAP Web Services
- Active on nominated URI's

Can be customised

- Every site is different
- Modular design for customisation
- Talk to us about what is needed.

Migrating Web Services between models



Web Services can be dragged and dropped between models

- Once defined, any Web Service can be replicated to another model with drag-n-drop
- Simple method removes the risk of incorrectly re-defining Web Services manually

The target model for the existing Web Service

- Must already contain the same action block
- The action block view structures should match
- The ancestry for that action block must be in place
- And the target model has been configured for Web Services

Promotion of Web Services is simple

- When the Web Service is ready to be migrated "up", simply drag-n-drop
- Once migrated, the Web Service only needs to be Generated and Built.

Key benefits of Web Services GENius



Publish CICS Web Services directly from CA Gen mainframe applications

- New and unique capability to deploy SOAP or RESTful Web Services on Gen applications
- Create Web Services from any Pstep or CAB without change to the Gen applications

Web Services GENius simplifies your application delivery

- Exploits TCP/IP and IBM's CICS Web Services infrastructure
- No new layers of middleware or hardware leverage what you've got
- Insulates developers from underlying technologies to accelerate Web Service delivery

No need for re-training development teams or new skill sets

- Seamless integration with CA Gen and IBM technologies
- Existing development teams can quickly deploy new Web Services.

More information



For further information

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To discuss a demonstration or software evaluation in your environment

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