



QA Console

check | address | implement

QA Console brings the power of automated standards enforcement to your projects to accelerate your development process. The highly configurable and extensible software ensures that your applications remain high performing and consistent to make maintenance efficient and effective.

The developer's perspective

Start with a summary view

When a developer has completed a unit of work and wants to ensure that everything adheres to site standards, the objects they have changed can either be located from a filterable Model Tree or by a date driven Changed By search feature. An initial summary report then quickly shows which of these objects do not comply with your site's standards.

Technical Scope

- ✓ Simple intuitive interface
- ✓ Online and batch processing
- ✓ Large library of built in checks
- ✓ Write custom checks in Gen
- ✓ All checks highly configurable
- ✓ Command line interface for process integration

The screenshot shows the QA Console interface. At the top, there's a menu bar with 'File', 'Edit', 'Encyclopedia', 'Model', 'Actions', 'Tasks', 'Options', 'Window', and 'Help'. Below the menu is a toolbar. The main area is divided into a 'Model List' on the left and a 'Task List' on the right. The 'Task List' shows a table of objects with columns for 'Object Name', 'Object Type', and various quality checks (Q1-Q15). The table lists several objects with red 'X' marks indicating failures. Below the table, there's a 'Task Detail' section showing 'Check 2 Information'.

Object Name	Object Type	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
· CALCULATE_ORDER_TOTAL_PRICE	Action Block	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✗ CREATE_ADDRESS	Action Block	✓	✗	✗	✗	✗	✓	✓	✓	✗	✓	✓	✓	✓	✓	✗
✗ CREATE_CONTACT	Action Block	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✗ CREATE_CONTACT_ROLE	Action Block	✓	✓	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✗ CREATE_CUSTOMER	Action Block	✓	✓	✗	✗	✗	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓
✗ CREATE_GENERIC_CODE	Action Block	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Check Information

Check Description	Q2 - Unused Views
Technical Details	One or more views in the Action Diagram for objects that fail this check are unused. This means that highlighted as unused are not referred to in any statements, not view matched into or out of the Action not passed along any dialog flow to or from the (Procedure Step) Action Diagram and not placed on any screen, window or dialog box.
Applies to	Action Block Procedure Step
User Actions on Failure	Remove the unused view(s) from the Action Diagram.

Quickly see what needs attention

...then which standards are in breach

...and the detail on that standard.



Then drill down into the detail

Now that you know which parts of your code changes don't meet the standards, you can drill into the detail and identify exactly what needs to be done to fix them – and achieve compliance.

The screenshot shows the QA Console interface with a list of failed checks. A callout bubble points to the list, stating: "The Detailed Report shows information to pinpoint the issue...". Another callout bubble points to the details of check Q1, stating: "...with the exact statements or properties that need changing...". A third callout bubble points to the 'Check Information' table, stating: "...and the advice on how to fix it."

ActnBlock	CREATE_ADDRESS	2011-06-30 09:08	by ENCYADMN
Q1 Disabled Statements	[SEVERE ERROR]	Failed (4 lines) ...	
Q3 View Sort Order	[ERROR]	Failed	
Q4 Naming Standard	[*]	Failed	
Q9 Views for delete but Used/Refd	[ERROR]	Failed (5 used views, 16 used attributes)	

Check Description	Q1 - Disabled Statements
Technical Details	The Action Diagram for objects that fail this check contains disabled statements (not including)
Applies to	Action BlockProcedure Step

Certification of QA compliance for your migration

Once all mandatory issues have been resolved and your set of changes is ready to be migrated, you can easily produce a QA compliance report by saving the output of all the checks run against your changed objects, which can then accompany your migration request. When the QA Checks are run in batch the output of the reports are stored for subsequent retrieval, allowing you to use this as a repository of QA compliance reports. Producing QA compliance reports provides the visibility and governance that your Model managers require and help ensure that only quality code is promoted up into Test, and then to Production.

The administrator's perspective

QA Console ships with a built in set of "best practice" base standards that are easily tailored to your own needs and extensible as your standards change and evolve. The QA Configuration Utility lies at the heart of this, and provides great flexibility in how standards can be applied.

Standards and models

The QA Configuration Utility enables QA Administrators to create a defined set of standards, and



then to associate those standards as the ones to be applied by the developers against specific models. This flexibility means that different types, configurations and levels of standards can be applied to different models as appropriate. It also ensures that your standards enforcement can be incrementally deployed, and where existing variances in models exist, they can be fully supported.

Base checks

There are base standards covering names, calling structures, object dependencies, performance tuning, complexity warnings, layout standards and many more. These work out of the box so with little effort, you can be up and running with the *QA Console* in the minimum of time.

To start enforcing a check, first enable it...

...then read the description and configuration instructions...

...and finally categorise it and configure it to your site standards.

Custom checks

You can build and implement specialized checks using CA Gen itself. These specialized checks run alongside the base checks seamlessly and like the base checks can be categorised and enforced as mandatory if required. A supplied SDK consisting of a CA Gen model and test harness are used to develop checks in house, releasing you from reliance of third parties to develop your own complete QA solution. Equally, Response Systems can build these for you if that is preferred.

Check categories and optionality

In the real world, there are always going to be some checks that are more important than others. There are also going to be ones that *have* to be fixed and ones that should only be addressed if time permits. *QA Console* allows you to define your own categories of checks. It ships with standard categories such as Severe Error, Error, Warning etc but these can be changed to



whatever is appropriate at your site. Furthermore, individual categories can be defined as optional or mandatory meaning that when objects are being checked, there's no cutting corners!

Process integration

QA Console comes with a command line interface that can be integrated with 3rd party change control software to ensure standards compliance is a seamless part of your development process.

In-product documentation

Documentation is all taken care of entirely within the software itself. A Help Panel exists at the bottom of each interface so that whether you are an administrator configuring checks, or are a developer addressing issues, all of the supporting information required is supplied with the click of a mouse, when you need it, where you need it.

Process online or asynchronously

Full online or asynchronous processing support is available. A persistent database is bundled with the software so that tasks that are submitted asynchronously are stored for as long as needed, creating a full audit trail of who checked what and when.

Installation requirements

QA Console installs on Windows Vista and above, Windows Server 2003 and above. *QA Console* requires .NET Framework 3.5 or later, Java 6 or later and up to 100Mb of storage. Connection to the Host or CSE database via ODBC is required.

Contact Us

For further information on *QA Console*, please contact us at info@response-systems.com

About Response Systems

We empower CA Gen Customers across the globe with software that maximizes their return from CA Gen.

Established in 1995, Response Systems is based in the UK, with offices in Australia, and over 150 Customers throughout the world. We are a CA Technologies Development Partner.

Response Systems is part of the Facet Group, who specializes in the provision of expert CA Gen Consulting and Project services.