

Summary of Changes to Conga from 2.0 to 2.5

17 March 2014

Conga 2.0 was first released with Dyalog APL 12.1.

Conga 2.5 will be included with the forthcoming Dyalog APL 14.0, and is included in 13.2 installation images dated 2014-03-14 or later.

IMPORTANT POINTS TO NOTE WHEN upgrading from Conga 2.0 and Dyalog APL 12.1

On the Microsoft Windows operating system, the Conga .dll files have moved from `$DIALOG\bin` to `$DIALOG`. In addition, Conga 2.5 makes some use of the P (pointer) type in the underlying `□NA` calls; this type is not supported in Dyalog APL 12.1. Please contact support@dyalog.com if you wish to use Conga 2.5 with Dyalog APL Version 12.1

Version 2.1 (First Released with Dyalog APL 13.0)

The primary feature in this release modifies how certificates are used to facilitate secure communications. This has resulted in changes to the functions `DRC.Srv` and `DRC.Cl t` when using certificates. Existing Conga 2.0 applications that use certificates will require minor modifications to use Conga 2.1.

V2.1 New Functionality

- `DRC.X509Cert` class: This class encapsulates the structure and function necessary to use X.509 certificates with Conga. This is the recommended method for providing certificate information to the `DRC.Cl t` and `DRC.Srv` functions.
- `DRC.Cert s` function: Provides the underlying functionality used by the `DRC.X509Cert` class to read and decode certificates.
- Microsoft Certificate Store support: Certificates located in Certificate Stores under Microsoft Windows can now be read and used with Conga.
- Conga .dll files: On Microsoft Windows, these have moved from `$DIALOG\bin` to `$DIALOG`

V2.1 Changed Functionality

- `DRC.Srv` and `DRC.Cl t` functions: The syntax to pass certificate information for both these functions has changed.
- `DRC.In i t` function: A left argument of `⍒1` now causes Conga to reload its underlying drivers.
- `Samples.HTTPGet` function: The optional left argument is now an X509Cert object.
- `WebServer.HttpsRun` function: Now accepts an X509Cert object argument.
- `DRC.GetProp` function: Now returns an X509Cert object for `'PeerCert'`.

Version 2.2 (First Released with Dyalog APL 13.1)

V2.2 New Functionality

- Deflate Compression: A new class, `#.DRC.f l a t e`, implements the Deflate compression scheme using the zlib open source compression library. For more information on zlib, refer

to <http://zlib.net>. Deflate compression is one of several content encoding schemes used by all major web servers and browsers to optimise the flow of data across networks.

- `DRC.Version` function: Returns the current version of Conga. This is useful if you write code that dynamically loads Conga.

V2.2 Changed Functionality

- `DRC.Send` function: Allows a new value, 2, for the close connection parameter. This is used to send a command without expecting a response. On the client side, the command is disposed of after sending. On the server side, the command is disposed of after receipt, which means that the server cannot use the `DRC.Respond` function to send a response to the command.
- `DRC.Version` function: The GnuTLS version is now reported.
- `Samples.HTTPGet` function: Now supports deflate HTTP compression.

Version 2.3 (First Released with Dyalog APL 13.2)

V2.3 New Functionality

- Integrated Windows Authentication (IWA): When used in a Microsoft Windows domain, Conga 2.3 supports Integrated Windows Authentication (IWA). This feature can use the domain credentials of a Microsoft Windows user for authentication. Two new functions, `DRC.ClientAuth` and `DRC.ServerAuth` provide client and server side IWA capabilities respectively.
- `DRC.Prop 'KeepAlive'` parameter: `DRC.GetProp` and `DRC.SetProp` now support a new parameter, 'KeepAlive', which causes a server to send periodic messages to determine if the connection to a client is still alive.

Version 2.4 (First Release Scheduled with Dyalog APL 14.0)

Some reworking of internal protocols to support the forthcoming RIDE tool.

Version 2.5 (First Release Scheduled with Dyalog APL 14.0)

Same as 2.4 but recompiled against GnuTLS 3.2.12.1 (which includes the fix for CVE-2014-0092).

This will be included with the forthcoming Dyalog APL 14.0 as well as in the remade installation images for Dyalog APL 13.2.