
# isCOBOL™ Application Platform Suite

## isCOBOL APS 2010 Release 3 Overview

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## Introduction

Veryant is pleased to announce the latest update to the isCOBOL™ Application Platform Suite (APS), isCOBOL APS 2010 Release 3 (R3). isCOBOL APS provides a complete environment for the development, deployment, maintenance, and modernization of COBOL applications. The isCOBOL 2010 R3 update includes several enhancements to the isCOBOL™ Integrated Development Environment (IDE), new isCOBOL™ Debugger features, and enhanced compatibility with alternative platforms such as mainframe COBOL and Micro Focus ACUCOBOL-GT®.

Details on these enhancements and other new features are included below.

## isCOBOL IDE Enhancements

isCOBOL APS 2010 R3 includes several isCOBOL IDE productivity enhancements, including the addition of drag-and-drop screen design and "Screen Test" capabilities, new code completion functionality and new project view tabs.

Drag-and-drop screen design

isCOBOL IDE users can now select multiple items from a Data Pool Viewer and create screens with just one drag of the mouse .

To access the Data Pool Viewer in the isCOBOL IDE, open a Screen File as follows:

1. Click the Tab titled "Structural".
2. Expand the "Screen Section" node to reveal screens.
3. Select a screen and double-click to open it in the IDE palette.
4. Right-click the mouse on the screen and select "Data Pool" from the sub-menu. FDs (File Descriptions) and Working-Storage contents relating to the Screen program will then be visible.

## Screen Test capability

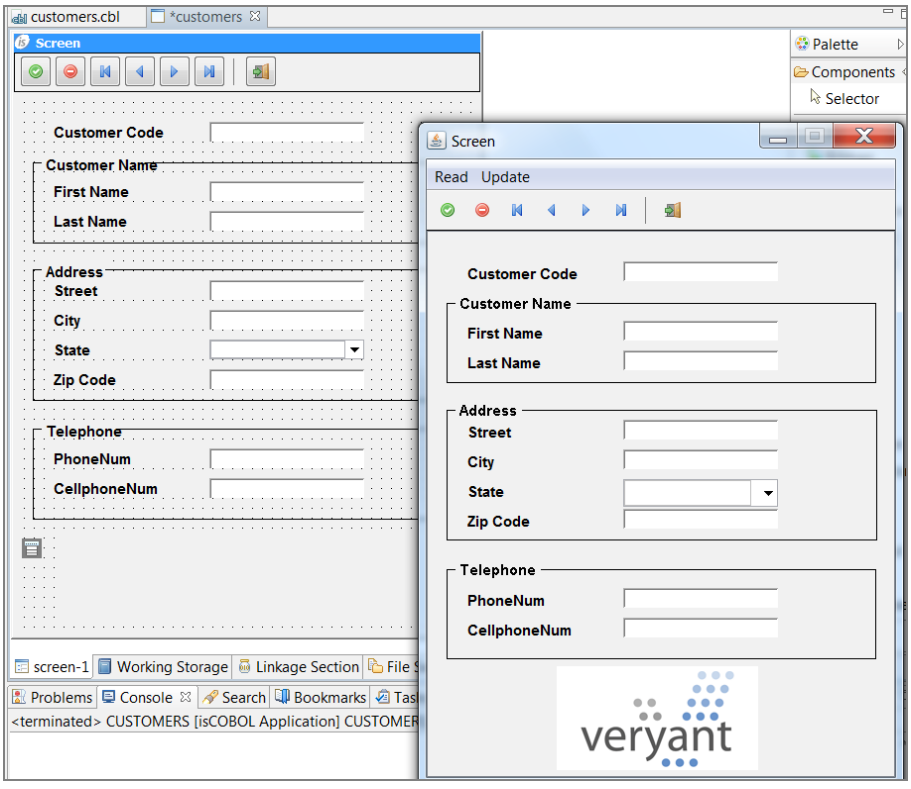
isCOBOL users can now display and test screens with one mouse click from within the isCOBOL IDE, eliminating the need to generate, compile, and execute a program to view a screen.

To access Screen Test, open an existing Screen Program as follows:

1. Click the Tab titled “Structural”
2. Expand the “Screen Section” node to reveal screens
3. Select a screen and double-click to open it in the isCOBOL IDE palette.
4. Right-click the mouse on the screen and select “Screen Test” from the sub-menu. Users will then see a pseudo program screen with working combo-boxes, but no data.

This feature is used to see how a screen will look when displayed in program mode, as depicted in Figure 1, *Screen Test Sample Snapshot*. Note, screens are displayed without any screen navigation or file I/O when using this feature.

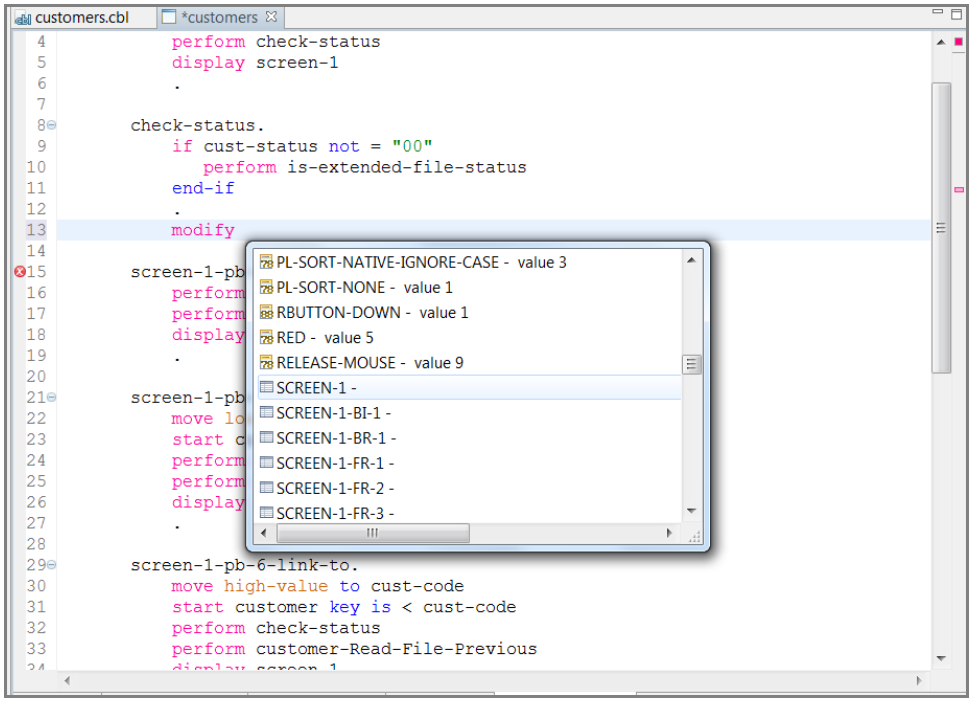
**Figure 1**. Screen Test Sample Snapshot



Code Completion for GUI Syntax

As depicted in Figure 2, *Code Completion Screenshot*, after typing MODIFY or INQUIRE, isCOBOL IDE users can press Ctrl-Space to complete statements from a drop-down menu.

**Figure 2**. Code Completion Snapshot



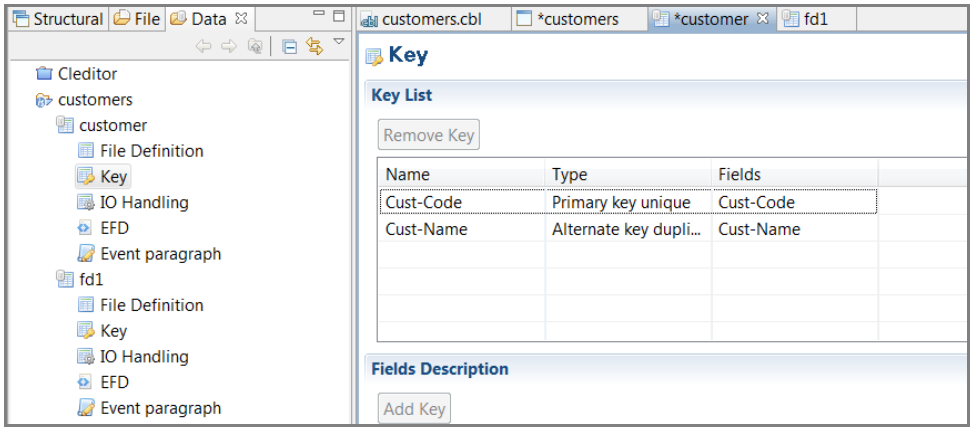

Simplified Project View

New tabs are available in the isCOBOL Explorer to separate Structural, File and Data views:

- The *Structural View Tab* shows the project's Screen(s), Linkage and Working-Storage Sections, Data Set(s) and Event Paragraph code.
- The *File View Tab* shows a project's File folders; Source, Copy, Resource, Output, Data plus any created by the programmer
- The *Data View Tab* shows a project's FD/SL(s) (File Descriptions and SELECTs) created via the "New FD/SL" Wizard. The information shown in this view, as depicted in Figure 3, *Data View Tab*, includes:
  - File Definition; e.g., Name, Format
  - Key List and Description

- I/O paragraph types, if any, and the paragraph names associated with each I/O event; e.g., Open, Read, Delete, etc.

**Figure 3**. Data View Tab




### isCOBOL Application Server (thin client) performance

In the R3 release of isCOBOL 2010, network overhead and latency has been reduced, thus improving thin client performance for end users navigating through screen fields. isCOBOL Application Server no longer sends network packets when users tab through screens, thus reducing the overall number of network packets sent between the client and server. No packets are sent when the focus is changed between controls without embedded procedures and without formatting properties.

### isCOBOL Debugger

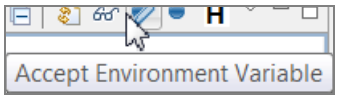
In isCOBOL 2010 R3, debugger users can display and modify environment variables to test scenarios while debugging.

To display an environment variable, select a menu icon as depicted below in Figure 4, *Display Environment Variable*. If already set, the value of the environment variable will be displayed.

**Figure 4**. Display Environment Variable

To modify an environment variable from the IDE within a debugger session, first click the icon, as depicted below in Figure 5, *Accept Environment Variable*, and then type in the environment variable name and new value.

**Figure 5**. Accept Environment Variable




**Additional isCOBOL 2010 R3 enhancements**

Other advances made in the isCOBOL 2010 R3 release include:

- Added compatibility with Mainframe and ANSI 85 COBOL syntax to further simplify transitions to the isCOBOL platform, including:
    - Support for comparison between COMP and character data
    - Support for ADD CORRESPONDING and SUBTRACT CORRESPONDING
- Enhanced ACUCOBOL-GT compatibility
    - Improved ability to match ACUCOBOL-GT screen dimensions via configuration variables
    - Support for getting media information (e.g. port names, paper sizes, trays ) and cancelling jobs using the WIN$PRINTER routine
- New compile time error and warning messages
    - Constant already defined with different value" to distinguish duplicated constants with different values
    - "Directive not closed" returned on opened directives
    - "Only one-dimensional table allowed here" returned on MODIFY statement with TABLE or MULTIPLE properties