User Interface - Bug #12124

SIGNATURE Widget: Issues Found While Writing the Signature Demo

11/05/2026 12:41 PM - Sergey Ivanovskiy

Status:	New	**Start date:**	
Priority:	Normal	**Due date:**	
Assignee:		**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:			
billable:	No	**reviewer:**	Greg Shah, Hynek Cihlar
vendor_id:	GCD	**production:**	No
case_num:		**env_name:**	
version_reported:		**topics:**	
version_resolved:			

Description

History

#1 - 11/05/2026 12:42 PM - Sergey Ivanovskiy

- File signature_demo.p added

SIGNATURE Widget: Issues Found While Writing the Signature Demo

Background

These issues showed up while writing the signature demo for the FWD User Meeting (#12087): abl/signature/signature_demo.p in the testcases project, which drives the FWD SIGNATURE widget (CREATE SIGNATURE, an FWD extension) through its handle methods (KeyPadAddHotSpot, LCDRefresh, ...). Both are conversion issues. They were split out of the spreadsheet demo list (spreadsheet_demo_issues.textile), where they were issues 7 and 8.

Tested on trunk rev 16821 and on 9830a rev 16821. The demo works around each issue; the workaround is given per issue.

Summary

#	Issue	Where in FWD	OpenEdge result	Workaround in the demo
1	Conversion: SIDE-LABEL VIEW-AS TEXT in DEFINE FRAME fails	conversion rules (FORMAT_PHRASE)	Not a defect: OpenEdge error 201 as well	Frame-level SIDE-LABELS, no VIEW-AS TEXT
2	Conversion: an arithmetic argument to a SIGNATURE method converts to int64	conversion of widget method arguments	FWD-only widget, no OE check; FWD defect	Compute into an INTEGER variable first

1. Conversion: SIDE-LABEL VIEW-AS TEXT in DEFINE FRAME Fails

Found in the first version of the demo. The frame is the demo's, but the issue is not specific to the SIGNATURE widget.

```
DEFINE VARIABLE cOrder AS CHARACTER NO-UNDO FORMAT "x(12)" LABEL "Order".
DEFINE FRAME fMain
   cOrder AT ROW 1.5 COL 12 SIDE-LABEL VIEW-AS TEXT
   WITH SIZE 130 BY 20.5 THREE-D NO-BOX.
```

FWD conversion stops with Unrecognized data type WID_TEXT. [FORMAT_PHRASE ...] (throwException in a walk rule on BLOCK/STATEMENT/DEFINE_FRAME/FORM_ITEM/FORMAT_PHRASE).

OpenEdge: does not compile it either: ** Unknown Field or Variable name - SIDE-LABEL. (201). SIDE-LABEL is not a format phrase option (SIDE-LABELS is a frame phrase option). **Not an FWD defect**. FWD's message is just less clear than OpenEdge's.

Workaround: WITH SIDE-LABELS on the frame and no VIEW-AS TEXT.

2. Conversion: an Arithmetic Argument to a SIGNATURE Method Converts to int64

```
DEFINE VARIABLE dCharW AS DECIMAL NO-UNDO INITIAL 9.6.
DEFINE VARIABLE iLineH AS INTEGER NO-UNDO INITIAL 15.
hSig:KeyPadAddHotSpot(1, 1, 10, 10, INTEGER(12 * dCharW), 3 * iLineH + 2).
hSig:LCDRefresh(1, 10, 10, INTEGER(12 * dCharW), 3 * iLineH + 2).
```

In the demo, where the key, position and width came from parameters (piKey, piX, piY, piCells), this converted to ...keypadAddHotSpot(piKey, new integer(1), piX, piY, new integer(multiply(piCells, dCharW)), plus(multiply(3, iLineH), 2)), and javac failed with incompatible types: int64 cannot be converted to integer. This happens both for INTEGER(...) wrapped in new integer(...) and for the bare plus(...).

OpenEdge: cannot be checked: CREATE SIGNATURE is an FWD extension. Handle methods with INTEGER parameters take arithmetic arguments in 4GL, so FWD should wrap the int64 results. This is an FWD defect.

Workaround: compute the values into INTEGER variables first (the demo now calls hSig:KeyPadAddHotSpot(piKey, 1, piX, piY, iW, iH) and hSig:LCDRefresh(1, piX, piY, iW, iH)).

Files

signature_demo.p	16.2 KB	11/05/2026	Sergey Ivanovskiy