User Interface - Feature #12033

implement EDITOR:CONVERT-TO-OFFSET

10/20/2026 01:41 PM - Greg Shah

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

Description

History

#1 - 10/20/2026 01:42 PM - Greg Shah

Implement EDITOR:CONVERT-TO-OFFSET

Project: User Interface

Problem

CONVERT-TO-OFFSET(line, column) returns the character offset in an editor's text for a line and column position, counting the lines as the editor wraps them. FWD has the lexer keyword only: there is no conversion mapping and no runtime method. The gap marking records it as None / None.

A common use is word-wrapping long text for a report. The text is put into an editor that is never shown on screen, only displayed to a stream, and each wrapped line is extracted in turn:

```
DISPLAY STREAM s ed WITH FRAME f_dummy.
DO i = 1 TO ed:NUM-LINES IN FRAME f_dummy:
   ASSIGN iFrom = ed:CONVERT-TO-OFFSET(i, 1)
          iTo   = ed:CONVERT-TO-OFFSET(i + 1, 1).
   ed:SET-SELECTION(iFrom, iTo).
   PUT STREAM s UNFORMATTED ed:SELECTION-TEXT SKIP.
END.
```

Work

1. Implement CONVERT-TO-OFFSET on the editor widget, mapping a line and column position to a 1-based character offset over the **wrapped** text, with the 4GL's rules for word wrap, the editor's width and font, and line ends.
2. Establish and match the OpenEdge result for a line or column out of range, the last line, an empty editor, and an editor with WORD-WRAP false.
3. Add the conversion mapping for the method, for static and handle-based references.
4. Check that the whole pattern above works, including on an editor that has been displayed only to a stream and never realized on screen: NUM-LINES, SET-SELECTION and SELECTION-TEXT must give the 4GL's results there too.
5. Update the gap marking.

Testcases

With an OpenEdge baseline:

- the pattern above over text with long words, short words, embedded line breaks and trailing spaces, at several editor widths;
- out-of-range arguments;
- an editor realized on screen and one displayed only to a stream.