

TIBCO BusinessWorks™
COBOL Copybook Plug-in
Release Notes

Software Release 2.5.0
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Release Notes

Check the TIBCO Product Support web site at <https://support.tibco.com> for product information that was not available at release time. Entry to this site requires a username and password. If you do not have a username, you can request one. You must have a valid maintenance or support contract to use this site.

Topics

- *[New Features, page 2](#)*
- *[Changes in Functionality, page 4](#)*
- *[Deprecated Features, page 5](#)*
- *[Migration and Compatibility, page 6](#)*
- *[Closed Issues, page 7](#)*
- *[Known Issues, page 10](#)*

New Features

This section lists features added since the last release of this product.

Release 2.5

The following are the new features in this release.

- **VALUE Clause Support** The VALUE clause is now supported. The Render Copybook Data activity will generate that value for items that do not have values supplied in the input data.
- **Platform Support** The plug-in can be used with TIBCO BusinessWorks on the following platform:
 - Solaris 10 on x86

Release 2.2

The following are the new features in this release.

- **Trimming Whitespaces from String Values** The Trim Whitespaces from String Values field was added to the Parse Copybook Data activity configuration. The default setting for the new field is true. For details, see *TIBCO BusinessWorks COBOL Copybook Plug-in User's Guide*. Note that projects created with previous versions of the plug-in will work in the same way with no modification required.
- **Variably Located OCCURS DEPENDING ON Clause** Variably located OCCURS DEPENDING ON clause is now supported.
- **Variably Located Control Fields** Variably located control fields are now supported.

Release 2.1

The following are the new features in this release.

- **Output Format Option for Render Copybook Data** The option to specify the output data format of the Render Copybook Data activity was added. This lets the output data to be rendered as a byte stream or as a string. By default, the output data is rendered as a byte stream.
- **Empty Elements in Input XML of the Render Copybook Data** The Render Copybook Data activity's input XML can contain elements with unassigned values. All elements in the main copybook schema are optional.

- **Importing Multiple Schemas from a Copybook** A COBOL copybook containing definitions for more than one group element can be imported as an XSD schema. All the group definitions in COBOL copybook are imported as the complex elements of an XSD schema.

Release 2.0

The following are the new features in this release.

- **Support for COMP-1, COMP-2, FUNCTION-POINTER, INDEX, POINTER and PROCEDURE-POINTER Usages** The plug-in supports data elements with COMP-1, COMP-2, FUNCTION-POINTER, INDEX, POINTER and PROCEDURE-POINTER usages in the copybook schema.
 - The data element with COMP-1 usage is converted to xs:float type in the XSD schema. The data element with COMP-2 usage is converted to xs:double type in the XSD schema.
 - The data element with FUNCTION-POINTER, INDEX or POINTER usage is converted to xs:integer type in the XSD schema.
 - The data element with PROCEDURE-POINTER usage is converted to xs:long type in the XSD schema.
- **SYNCHRONIZED Data Elements** The plug-in supports data elements that use the SYNCHRONIZED clause. When converting a copybook that uses the SYNCHRONIZED data elements, the elements for slack bytes are added in the XSD schema if needed.
- **Platform Support** The plug-in can be used with TIBCO BusinessWorks on the following platforms:
 - Solaris 10 on SPARC
 - AIX 5.2 on x86
 - AIX 5.3 on x86

Changes in Functionality

This section lists changes in functionality since the last release of this product.

Release 2.5

- **Validation of Zoned Decimal Values** Stricter validation of zoned decimal values has been implemented in the Parse Copybook Data activity. For details, see "Handling of Zoned Decimal Items" in *TIBCO BusinessWorks COBOL Copybook Plug-in User's Guide*.
- **No Truncation of Mapped Zone and Packed Values** Mapped zoned and packed values are not truncated in the Render Copybook Data activity. An error will be generated if a value has more digits than an item can hold.
- **Support for Multi-Byte Character Sets Discontinued** The Render Copybook Data and Parse Copybook Data activities no longer support multi-byte character sets. Only single byte character sets are supported.

Release 2.2

- **Error When Record Cannot be Read** When the Parse Copybook Data activity is unable to read a full record due to premature end of data, it now generates an error.
- **Characters With Zero Value** Characters with zero value (x0000) are no longer skipped when parsing string fields.
- **Repeating Field Used as OCCURS DEPENDING ON Clause** If a field used in an OCCURS DEPENDING ON clause is a repeating field, the value used to determine the actual number of occurrences is the last value processed before this OCCURS DEPENDING ON clause.
- **Repeating Control Fields** If the control field is a repeating field, then the value used to determine the actual choice is the last value processed before the xs:choice element.

Release 2.0

Changed Handling of Numeric-Edited Pictures The data element with numeric-edited picture converts to xs:string type in the XSD schema.

Deprecated Features

This section describes deprecated features and lists equivalent features that accomplish the same result, if relevant. Any use of a deprecated feature should be discontinued as it may be removed in a future release. You should avoid becoming dependent on deprecated features and become familiar with the equivalent feature.

Release 2.2

No features are deprecated.

Release 2.1

No features are deprecated.

Release 2.0

No features are deprecated.

Migration and Compatibility

This section provides guidelines to migrate data to the new version of the plug-in and information on its compatibility with other TIBCO products.



To ensure the integrity of your data, backup the project you want to migrate before you begin the migration.

Release 2.5

If your Parse Copybook Data and Render Copybook Data activities use a multi-byte character set, the process will fail with an error. Use TIBCO Designer to specify a supported character set.

For migration guidelines, see [Release 2.0](#) below. The information also applies to this version of the plug-in. For the plug-in's compatibility with other required TIBCO products, see the plug-in's *readme.txt*.

Release 2.2

For migration guidelines, see [Release 2.0](#) below. The information also applies to this version of the plug-in. For the plug-in's compatibility with other required TIBCO products, see the plug-in's *readme.txt*.

Release 2.1

For migration guidelines, see [Release 2.0](#) below. The information also applies to this version of the plug-in. For the plug-in's compatibility with other required TIBCO products, see the plug-in's *readme.txt*.

Release 2.0

During migration, new features may cause the plug-in to work differently than expected. If you use TIBCO BusinessWorks processes defined using a previous version of the plug-in, install the plug-in and test the processes. If the results are as expected, then migrate the processes to the new version of the plug-in.

Closed Issues

The table in this section list issues that were closed in the named release.

Closed in Release	Change Request ID	Summary
2.5.0	1-8HY7RG	In the Render Copybook Data activity, the Records Delimiter field is inactive (the field is greyed out) when Multiple Records is selected. This has been fixed.
2.5.0	1-93LBHJ	The filler character may not be in effect when rendering data. This has been fixed.
2.5.0	1-93HZCP	Problems parsing fixed format copybooks – the slash character ('/') is not recognized as a valid comment character, and reserved words such as SKIP1 cause an import error. These problems have been fixed.
2.5.0	1-8HS3XU	The parser does not recognize that an elementary item, for which no PICTURE or USAGE is specified, should inherit its USAGE from the parent group (detected with USAGE POINTER and PROCEDURE-POINTER). This has been fixed.
2.5.0	1-8IA8AP	The parser does not recognize the COBOL reserved word FUNCTION-POINTER. This has been fixed.
2.5.0	1-8KVNU9	The parser generates empty XML tags when fields are empty. Such tags are now removed from the output document.
2.5.0	1-8HC6O9	Unable to parse data files in which the complete range of unsigned COMP-5 values is stored. This has been fixed.
2.5.0	1-8H80H1	Unable to parse long COMP-4 fields (PIC s9(18)). This has been fixed.
2.5.0	1-8H4R2Q	Unable to parse a data file containing the largest sizes of COMP-3 fields (PIC S9(18) COMP-3 through PIC S9(31) COMP-3). Problem cannot be reproduced.
2.5.0	1-8I9EUL	Error in calculating the length of external floating point values when V is used instead of a period (.). This has been fixed.
2.5.0	1-95RJ39	Render activity allows negative values to be mapped into unsigned packed-decimal and unsigned zoned fields. This has been fixed.

Closed in Release	Change Request ID	Summary
2.5.0	1-95R7S	Parse activity allows negative values for unsigned packed-decimal and zoned items. This has been fixed.
2.5.0	1-95VOTC	Sample throws errors. Incorrect copybook in one of the samples was corrected.
2.5.0	1-95VP3F	Fixed problems in redefine sample.
2.5.0	1-96794I	Fixed problem with embedded quotation marks in VALUE literals.
2.5.0	1-95RWO2	Unable to handle with valid statement: VALUE ''' (single quote). This has been fixed.
2.5.0	1-8HS3YQ	A Parse Copybook Data process fails if the copybook and associated data contain elements with usage INDEX or PROCEDURE-POINTER. This has been fixed.
2.5.0	1-90KJH1	Corrupted REDEFINES configuration after re-importing a copybook. This has been fixed.
2.5.0	1-97GHV3	Copybook import did not process the VALUE clause. Support for the VALUE clause has been added.
2.5.0	1-9AF8EN	DEPENDING object cannot be found for copybook with multiple top level elements. This has been fixed.
2.5.0	1-998W7B	Copybook parser not validating field types. This has been fixed.
2.5.0	1-9AM6ES	Installer for Solaris 10 on x86 platform provided.
2.2.0	1-8CC8CL	Use of the DEPENDING ON clause and the Render Copybook Data activity results in output strings with space padding at the end. This has been fixed.
2.2.0	1-8FBW13	The first copybook parse activity did not generate a parse error. This has been fixed.
2.2.0	1-82M4SF	The copybook parser truncates string fields. This has been fixed.
2.2.0	1-8FEPQT	Problem in which the default group could not be changed was fixed.
2.2.0	1-8GBM3V	Problem with COBOL data type POINTER was fixed.

Closed in Release	Change Request ID	Summary
2.2.0	1-8FIGTR	In the redefine configuration, control character values are entered. When parsing, leading zeros are stripped away, hence the control character is not found. This has been fixed.
2.2.0	1-8IDFQB	High number of exceptions thrown and caught internally. The resulting performance cost can be as high as 5%. This has been fixed.
2.1.0	1-7V2FX4	A data element with DISPLAY usage and unsigned picture had sign nibble in lowest byte. This has been fixed.
2.1.0	1-7UPECN	A data element with numeric-edited picture clause having P or V characters in picture had incorrect byte length. This has been fixed.
2.1.0	1-7BSWEN	A data element that followed a multiple occurrence data element had incorrect value for byte offset. This has been fixed.
2.1.0	1-7BTB7V	A data element with COMP-3, COMPUTATIONAL-3 or PACKED-DECIMAL usage and even number of digits in picture clause had incorrect byte length. This has been fixed.
2.0.0	1-77817Y	The Parse Copybook Data activity parsed data incorrectly for data elements with picture S9(9)V99. This has been fixed.
2.0.0	1-75RP0J	The data elements with numeric-edited pictures such as -9(4) were not handled correctly. The numeric-edited pictures Users had to be manually changed to strings in COBOL copybook before importing the copybook as an XSD schema. This has been fixed. All data elements with numeric-edited pictures are converted to xs:string type in the XSD schema.
2.0.0	1-6QF7HK	The Parse Copybook Data activity parsed data incorrectly for data elements with picture S9(2)V9. This has been fixed.
2.0.0	1-6OA63M	In copybook schema import UI, when opening a previously configured REDEFINES configuration, the control field name of the REDEFINES group was not displayed. This has been fixed.
2.0.0	1-6O1HFB	The data elements with picture S9(n)V were not parsed correctly. The parsing errors occurred during schema import. This has been fixed.
2.0.0	1-6NHJ97	When importing a copybook schema, data element with SIGN TRAILING SEPARATE clause resulted in parsing errors. This has been fixed.

Known Issues

The table in this section lists known issues in this release.

Change Request ID	Summary/Workaround
1-9BCR4P	<p>Summary GROUP-USAGE NATIONAL is not in effect when rendering text items.</p> <p>Workaround None.</p>
1-97JW0R	<p>Summary Error reporting errors for copybooks with invalid REDEFINE clause order.</p> <p>Workaround Error reporting issue; make sure your copybook is a valid COBOL copybook.</p>
1-97JVZV	<p>Summary When PIC is misspelled, no parsing error occurs.</p> <p>Workaround Error reporting issue; make sure your copybook is a valid COBOL copybook.</p>
1-97JVXF	<p>Summary Pasted Schema Resource has fields greyed out.</p> <p>Workaround Create a Schema new resource and fill in the fields.</p>
1-97JNDY	<p>Summary Reset button in Schema Resource does not restore REDEFINES configuration back to the original values.</p> <p>Workaround To restore previous values, close the project without saving.</p>
1-97JNAT	<p>Summary Cannot use embedded ";" in redefine control field values.</p> <p>Workaround None; avoid using ";" in values.</p>
1-97JN2L	<p>Summary REDEFINES dialog handles default field selection inconsistently.</p> <p>Workaround Reopen configure REDEFINES dialog and review the default field settings.</p>
1-96A1UF	<p>Summary Insufficient validation of number of items for OCCURS X TIMES during Parse and Render.</p> <p>Workaround Ensure the correct number of data items in the input data for Parse and input XML for Render.</p>