TIBCO Foresight® Products

Unicode at TIBCO Foresight

August 2017



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Document Purpose

This document is for users of TIBCO Foresight products who are working with Unicode data.

Unicode is a standard for handling text expressed in various languages.

Examples of text that can be expressed in Unicode:

EnglishChineseHebrewHOSPITAL醫院בית חולים

TIBCO Foresight products shown below handle the most common encodings: UTF-8 and UTF-16.

Unicode and TIBCO Foresight Products

Product	Level of Unicode support	
TIBCO Foresight® Community Manager®	Validates Unicode	
TIBCO Foresight® HIPAA Validator® Desktop	Validates Unicode	
TIBCO Foresight® Instream®	Validates Unicode Response Generator reads and writes Unicode	
TIBCO Foresight® Translator	Translates to and from Unicode	
TIBCO Foresight® Transaction Insight®	Unicode is not supported	
TIBCO Foresight® Archive and Retrieval System	Unicode is not supported	

Unicode Capabilities in Instream®

Validating

When validating, Instream passes any Unicode through to the detail results file, which it writes as a UTF8 file.

GEN record 10224 describes the encoding in the input file:

GEN 010224 1 0encoding=[UTF-8]

This information is used by Response Generator.

Controlling Response Generator Encoding in Output

Default behavior for Response Generator:

- Input ASCII creates output ASCII
- Input UTF8 or UTF16 creates UTF8 output with BOM

If you do not want to use the default behavior when creating response documents, use Response Generator's -e command-line parameter to control the encoding of its output, as shown in the following table.

Input data	RespGen output data	RespGen -e parameter	RespGen 999 IK4-04
Extended ASCII	ASCII	-eTEXT or none	Populated with encoded data
	UTF8 BOM	-eUTF8	Populated with encoded data
	UTF16 BOM	-eUTF16	Populated with encoded data
UTF8	UTF8 BOM	-UTF8	Populated with encoded data
	UTF8 no BOM	-eTEXT or none	Populated with encoded data
	UTF16 BOM	-UTF16	Populated with encoded data
UTF16	UTF8 with BOM	-UTF8	Populated with encoded data
	UTF8 no BOM	-TEXT or none	Populated with encoded data
	UTF16 with BOM	-UTF16	Populated with encoded data

Encoding Examples in Instream's Scripts directory

V_RG_837P_5010_ExtendedASCII.bat

V_RG_837P_5010_UTF8.bat

V_RG_837P_5010_UTF16.bat

Unicode Capabilities in Translator

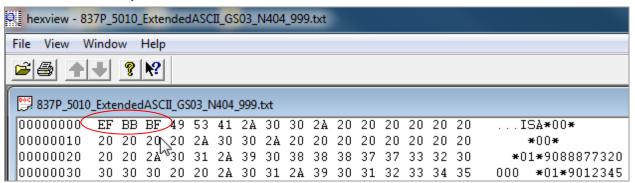
Please see TIB_translator_<n.n>_usersguide.pdf.

Seeing Encoding in the Output

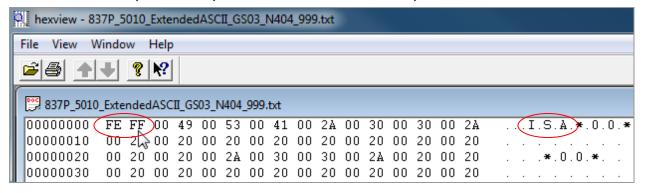
Seeing the BOM

Using a hex editor, you can look at the first characters in the output to see the BOM.

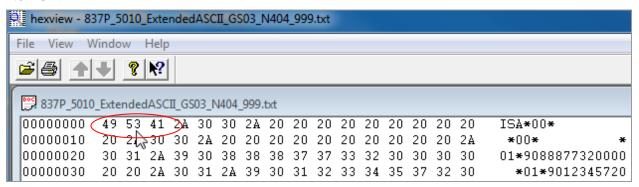
UTF8 BOM is three bytes:



UTF16 BOM is two bytes, and every character in a UTF16 file is two bytes:



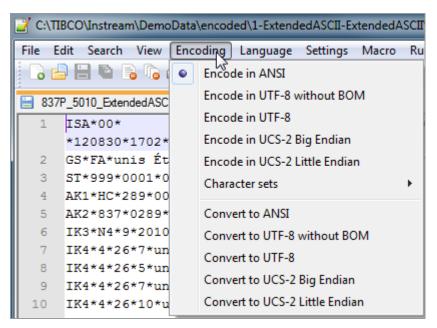
No BOM:



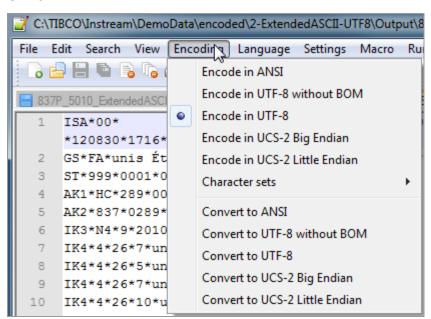
Seeing the Encoding

Using an editor that supports encoding, you can check the Response Generator output.

ASCII



UTF8



UTF16

