

Text-Based Import into the Barista Data Dictionary

Note: Requires Barista 11.10RC or later.

Introduction

The text file import into the Barista Data Dictionary (DD) offers legacy application developers a direct way to get their custom data dictionary definitions into the Barista framework via a given set of six tab-delimited (CSV) files.

Text File Architecture and Requirements

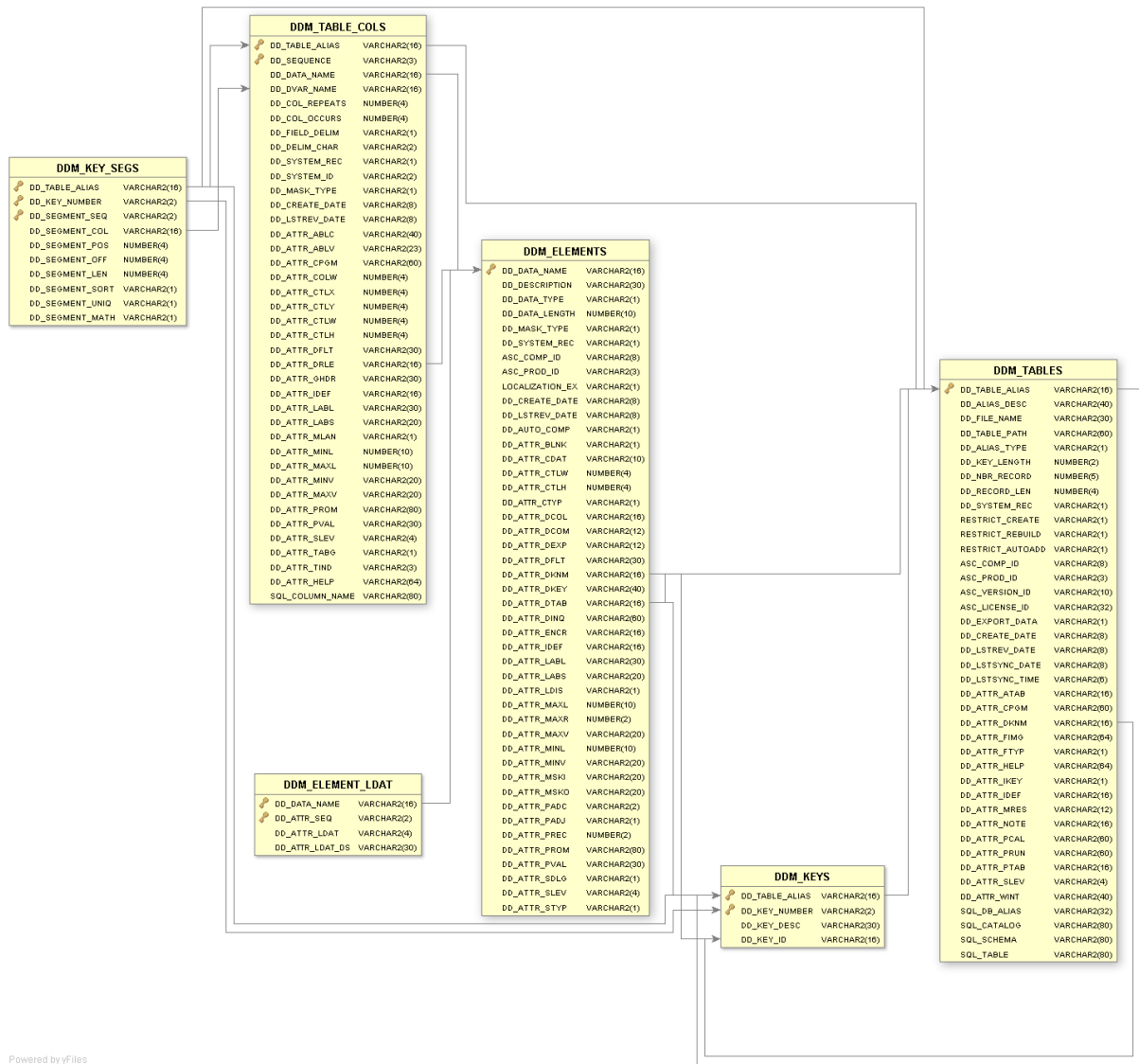
Each of the six text files must exist in the same directory and contain at least a header line with tab-delimited column names representing the required and optional data to import. The column names are based on the corresponding table templates in Barista and their correlation can be seen in the Element Type and Table Maintenance forms.

The six required file names are:

1. `imp_tables.txt`
2. `imp_elements.txt`
3. `imp_table_cols.txt`
4. `imp_keys.txt`
5. `imp_key_segs.txt`
6. `imp_element_ldat.txt`

The order of the files above mirrors the sequence in which they are processed during the import.

For a successful import, the relationships between the files need to be upheld as shown in the diagram on the next page.



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With the exception of a couple of internal system columns, any of the other columns in the Barista tables seen in the diagram above may be present in the import file. There are only a few required columns per record that must be filled for the record to be imported. Here is a list of the required and recommended columns:

imp_tables.txt (DDM TABLES)

DD TABLE ALIAS
DD ALIAS DESC
DD TABLE PATH
DD FILE NAME
DD ALIAS TYPE

imp_elements.txt (DDM ELEMENTS)

DD DATA NAME
DD DESCRIPTION
DD DATA TYPE
DD DATA LENGTH
DD ATTR LABL (*recommended, defaults to DD DESCRIPTION)
DD ATTR LABS (*recommended, defaults to DD ATTR LABL)
DD ATTR CTYP (*recommended, defaults to character input ("E"))

imp_table_cols.txt (DDM_TABLE_COLS)

DD TABLE ALIAS
DD SEQUENCE
DD DATA NAME
DD DVAR NAME
DD FIELD DELIM (*defaults to no field delimiter ("N"))
DD DELIM CHAR (*defaults to linefeed char ("0A") if DD FIELD DELIM="Y")

imp_keys.txt (DDM_KEYS)

DD TABLE ALIAS
DD KEY NUMBER
DD KEY DESC
DD KEY ID

imp_key_segs.txt (DDM_KEY_SEGS)

DD TABLE ALIAS
DD KEY NUMBER
DD SEGMENT SEQ
DD SEGMENT COL

imp_element_ldat.txt (DDM_ELEMENT_LDAT)

DD DATA NAME
DD ATTR SEQ
DD ATTR LDAT
DD ATTR LDAT ds

Primary Barista Attribute Values

Here is a recap of the permissible values for several attributes in Barista. Please refer to the “Getting Started” document for further details about the individual attributes.

DD_ALIAS_TYPE:

K	MKeyed File	X	XKeyed File	V	VKeyed File
M	Single MKeyed File	C	Serial File	D	Direct File
I	Indexed File	S	Sort File	Q	SQL Database Table
T	String File	O	Child Alias	P	Options Entry
R	Reference				

DD_ATTR_FTYP:

X	No Form Used	T	Maintenance Form	G	Maintenance Grid
S	Options Entry Form	R	Options Entry Grid	P	Yes/No Process

DD_ATTR_CTYP:

(none)	E	CharacterEdit	e	CharacterSpinner	
N	NumericEdit	n	NumericSpinner	D	DateEdit
d	DateSpinner	U	MultiLineEdit	L	ListButton
O	ListBox	C	CheckBox	I	Slider
R	RadioButtons	H	(none - Hidden)	X	(none - Ref Only)

DD_ATTR_LDIS:

O	Description	D	Description (Code)	C	Code - Description
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Note: Defaults to “O” (letter “O”), if DD_ATTR_CTYP is a ListButton (“L”) or ListBox (“O”)

DD_ATTR_PADC:

(none)	20	Space	22	Quote	
23	Pound (#)	2A	Asterisk (*)	2E	Period (.)
30	Zero	5E	Caret	5F	Underscore

DD_ATTR_PADJ :

(none)	L	Left	R	Right
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Note: Consider using padding and justification for key fields in particular.

DD_ATTR_SDLG:

(none)	O	File Open	D	Directory Open	
S	File Save	G	Global Variable (STBL)	A	Attachment

DD_ATTR_STYP:

(none)	1	Date (YYYYMMDD)	2	Date (YYYYMM)	
3	Date (YYYY)	4	Date (YYMMDD)	5	Date (MMDD)
J	Date (Julian)	6	Created Date Stamp	7	Revised Date Stamp
8	Created Time Stamp	9	Revised Time Stamp	A	Time (HHMMSS)
B	Time (HHMM)	C	Time (MMSS)	P	Postal Code
T	Telephone	S	Sequence Counter	I	Image Path

Note: Sub-type “J” requires a 7-digit numerical data type. All other sub-types are designed to work with the character data type.

DD_DATA_TYPE:

C	Character	N	Number	I	Integer
U	Unsigned Integer	B	Business Math	O	Blob

Note: Barista requires that key fields have a base data type of character (C) or number (N).

DD_FIELD_DELIM:

Y	Yes
N	No
E	End
S	Escaped
P	Padded

DD_DELIM_CHAR:

(none)	
00	00 - (000) - (NUL)
01	01 - (001) - (SOH)
...	
FD	FD - (253)
FE	FE - (254)
FF	FF - (255)

Note: The field delimiter will default to 10 (\$0A\$), if DD_FIELD_DELIM=”Y”

DD_MASK_TYPE:

(none)	A	Amount	I	ID	
U	Units	%	Percent	R	Rate
E	Extension	Q	Quantity	C	Cost
P	Price	V	Conv Factor	M	Mtl Factor
O	Ovhd Factor	H	Hours	Z	Zip Code
T	Telephone				

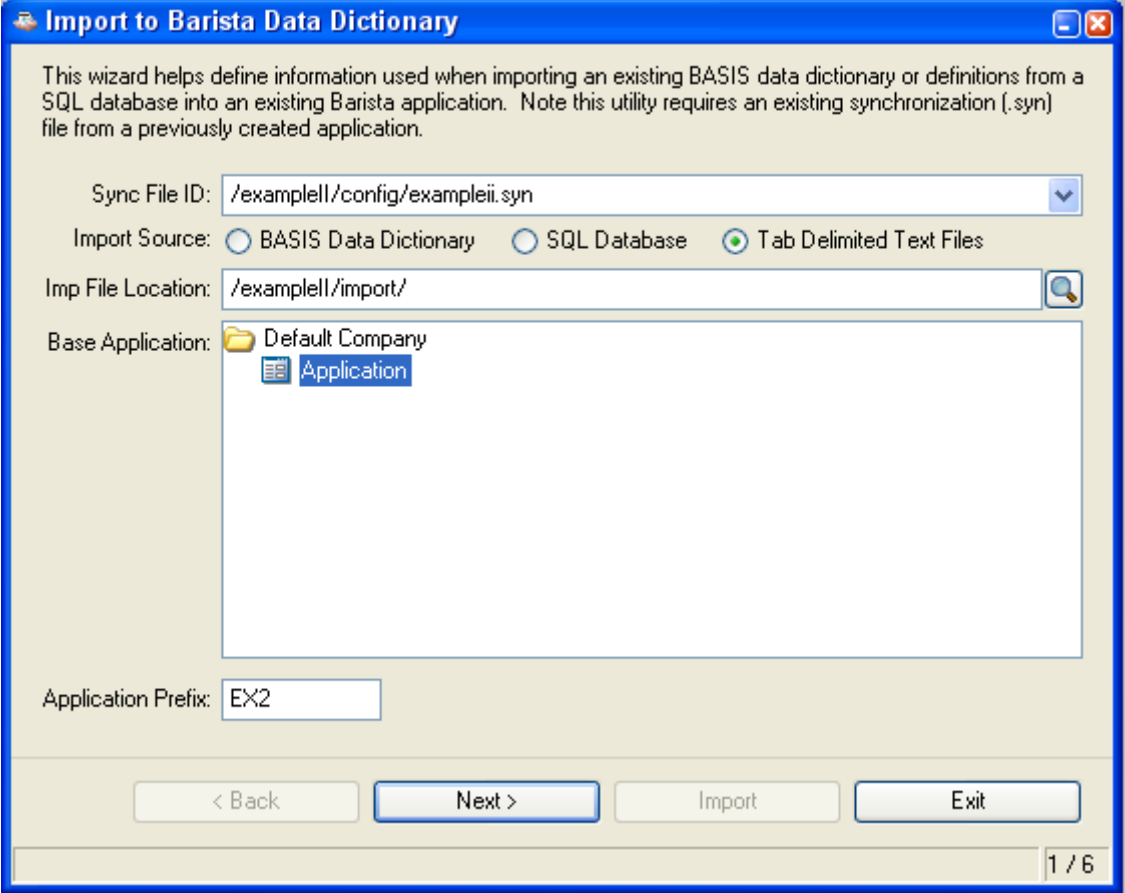
Note: The use of the mask type requires that corresponding records are created under “Barista Administration/Maintenance/Input/Display Masks”.

The General Import Process

First create an application under “Barista Development/Create Application”, using your customer id at BASIS as the company id or “00000000” for development and testing that will not be deployed to end customers.

Run “Barista Development/Import To Barista Dictionary”.

In the first frame of the import wizard, select the synchronization file you created and choose the “Tab Delimited Text Files” radio button. Enter or use the directory selection dialog to select the directory where the six import text files can be found. Enter an application prefix to use for prefixing your application object names, such as table and element names, in Barista to make finding them much easier and to help separate your application from other vertical apps that may be installed into Barista. Here is an example:



If an existing element type should be used, then you won’t want it become automatically prefixed. To avoid prefixing, begin the element type name with an asterisk, like *FIRM_ID or *USER_ID.

The rest of the import process is the same for any of the three import source types. Please refer to the documentation dedicated to describing the import process for further details.