

umsCodeGenerator 0.4

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1. Major Versions

umsCodeGenerator version 0.4

Capability of

- choice
- repeat
- optional
- zeroOrMore
- oneOrMore.

has been recovered from this version with new processing algorithms

- Method 3: - One pass processing which supports XML, interleave (recurse of self is prohibited), recursive ref-define within finite depth. Sample is shown [here](#) (docs/method3candidate.c) .

Supported **Data Structure** and **Processing Language** is the same with tableTools version 0.4.

tableTools version 0.4

This version can only handle simple table type structure. Both decoding and encoding of sequential data are supported. On the other hand, following capability was tentatively descoped

- choice
- repeat
- optional
- zeroOrMore
- oneOrMore.
- Supported **Data Structure**
 - Sequential Data in Text and Binary format - <http://ums.isas.jaxa.jp/0.4/dat>
- Supported **Processing Language**
 - C - <http://ums.isas.jaxa.jp/0.4/clng>
 - JAVA - <http://ums.isas.jaxa.jp/0.4/java>

umsCodeGenerator version 0.3

Most of processing in 'umsCompiler' has been moved into the XSL stylesheet of 'umsCodeGenerator' version 0.3. Since XSLT has limited capability in handling of strings, small portion of processing is still written in JAVA. This version of umsCodeGenerator supports generation of decoding library of serial data. C, JAVA and PERL version was available. Only Method 2 type processing was supported in this version.

- Supported **Data Structure**
 - Sequential Data in Text and Binary format - <http://ums.isas.jaxa.jp/0.3/dat>
- Supported **Processing Language**
 - Perl - <http://ums.isas.jaxa.jp/0.3/perl>

- C - <http://ums.isas.jaxa.jp/0.3/cIng>
- JAVA - <http://ums.isas.jaxa.jp/0.3/java>

umsCompiler version < 0.2

Oldest version of this program written in JAVA language. This version supported two decoding algorithms

- Method 1 (only for input of text data): Converts mapping definition into a regular expression and use regular expression library.
- Method 2: Two pass processing for both text and binary data.

2. Minor Releases

2006#11#22#: [20061122 # #####](#) (release/20061122_ums_release.html)

- #####
- Xalan#MSV#Jing#Trang#####
- W3C datatype # hexBinary #####

2006#10#20#: [20061020 # #####](#) (release/20061020_ums_release.html)

- value #####
- #####

2006#10#06#: [20061006 # #####](#) (release/20061006_ums_release.html)

- umsCodeGenerator #####
- #####

2006#09#13#: [20060913 # #####](#) (release/20060913_ums_release.html)

- ##### UMS_THREAD #####
- umsCodeGenerator #####

2006#08#16#: [20060816 # #####](#) (release/20060816_ums_release.html)

- ##### (mapping definition file) #####

2006#07#28#: [20060728 # #####](#) (release/20060728_ums_release.html)

- 20060714 # UMS #####
- Java ## package #####

2006#07#14#: [20060714 # #####](#) (release/20060714_ums_release.html)

- 20060419 # UMS #####
- group, interleave, choice, optional, zeroOrMore, oneOrMore, empty #####
#dat#####

2006#06#23#: [20060623 # #####](#) (release/20060623_ums_release.html)

- pre #####umsCodeGenerator ##### build #####

:

2005#10#25#: [umsCodeGenerator-2005102501.tar.gz](#)

(/archives/umsCodeGenerator-2005102501.tar.gz)

interleave

#####(-KM-)

2005#9#19#:

```
#####( see http://ums.isas.jaxa.jp/ )# umsCodeGenerator
##### line ##### lines #####(-KM-)
2005#9#17#: umsCodeGenerator-2005091701.tar.gz
(/archives/umsCodeGenerator-2005091701.tar.gz)
##### ### encodingLibrary #####(-KM-)
2005#8#3#: umsCodeGenerator-2005080301.tar.gz
(/archives/umsCodeGenerator-2005080301.tar.gz)
tableTools # umsCodeGenerator ##### file #####mapping definition
#####(-KM-)
2005#8#1#:
tableTools/umsCodeGenerator ### line ###param ##### line
##### ###umsCodeGenerator # optional, choice,
zeroOrMore, oneOrMore # ##### CC
#####(-KM-)
2005#7#29#: tableTools-2005072953.tar.gz
(/archives/tableTools-2005072953.tar.gz)
umsCodeGenerator-2005072953.tar.gz
(/archives/umsCodeGenerator-2005072953.tar.gz)
• #####
• ##### CC ###
• line #####
• optional ##### (umsCodeGenerator ##)
2005#7#23#: tableTools-2005072305.tar.gz
(/archives/tableTools-2005072305.tar.gz)
umsCodeGenerator-2005072305.tar.gz
(/archives/umsCodeGenerator-2005072305.tar.gz)
### syntax (XML-XML syntax) ### XML-language syntax #####
##### oneOrMore, zeroOrMore, choice
#####(umsCodeGenerator)# (-KM-)
2005#7#2#: tableTools-2005070253.tar.gz
(/archives/tableTools-2005070253.tar.gz)
• XSL #####
• pre XSL ##### XSL #####
• post xsl #####
2005#6#26#: tableTools-2005062653.tar.gz
(/archives/tableTools-2005062653.tar.gz)
umsCodeGenerator-2005062653.tar.gz
(/archives/umsCodeGenerator-2005062653.tar.gz)
• #####
• list ##### separator ###delimiter ## #####
```

- umsCodeGenerator (#####) # tableTools (#####) #####
C

2005#6#24#: [tableTools-2005062451.tar.gz](#)
(/archives/tableTools-2005062451.tar.gz)

- JAVA ##### <list/> ##### CSV ##### separator ##### ##separator
###delimiter ##### mapping ### re-write #####
- ##### RELAX NG #####
- #####

2005#6#21#:

encodingLibrary ##### (#####)#

2005#4#25#: [tableTools-2005042504.tar.gz](#)
(/archives/tableTools-2005042504.tar.gz)

C ##### <list/> ##### encodingLibrary (RELAX NG # datatypeLibrary
#####) # tableTools #####tableTools #####
encodingLibrary #####

- ##### datatypeLibrary #####
- (C ###) W3C_typeConversionLibrary #####int ## #####txt #####
unsignedInt ## #####

2005#4#18#:

tableTools version 0.4 ##### mappingSchema ### (version 0.4) ##

#####(-KM-)

2005#4#16#: [tableTools-20050416.tar.gz](#)
(/archives/tableTools-20050416.tar.gz)

- (C ###) typeConversionLibrary ##### <data/> ###<value/> ### datatype
#####
- <value/> - string, token ## encode ### ##### \ #####
- <defineMapping/> - #####

2005#4#15#: [tableTools-2005041501.tar.gz](#)
(/archives/tableTools-2005041501.tar.gz)

2005#4#13#: [tableTools-2005041301.tar.gz](#)
(/archives/tableTools-2005041301.tar.gz)

[2005#03#####](#) (/devel/history_ja.html)

3.

- <value-of>### select ##### a.b.c
#####<value-of
select="(a).a"/>#####
- C### typedef #####
- #####Java #####

- C#####
- Java ## typeConversionLibrary ##### encode ##### "US-ASCII" #####
- dataTypeLibrary # URI # type #####

4. #####

See [Bugzilla](#)

(http://eda.plain.isas.jaxa.jp/bugzilla/buglist.cgi?product=UMS&bug_status=NEW&bug_status=ASSIGNED)

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