U.S. Census Bureau

Geography Division

National/State Geographic Partnerships Branch



GPMS

MRF2ISO\_ver1Rel.px

ITV Then Production Release

 MRF2ISO\_ver1Rel

Release Notes

March 3, 2015

Release Notes MRF2ISO\_ver1Rel



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# I. Brief Description of System

MRF2ISO\_ver1Rel.px validates metadata for compliance with the Geospatial Product Metadata Standard (GPMS). It ensures that mandatory metadata elements are included in metadata files, are properly formatted (i.e. a real number or a fixed value) and, if applicable, contain the correct values.

If the input metadata file in the Metadata Repository Format (MRF) is determined to be valid, output files in the Federal Geographic Data Committee (FGDC) format and ISO 19115-2 formats are created for posting to the geoplatform.gov (the geoplatform) and data.gov portals.

Additionally, if the input FGDC file has Entity and Attribute information, an Entity and Attribute file (ISO 19110) is created. Only one file will created per theme.

This Perl script will also create a Series Information for every theme. This file is created to aid in data discovery in data.gov and geoplatform.gov by indicating a collection of similarly themed files (i.e. roads, address ranges etc.). Like the previously mentioned Entity and Attribute files, only one file will be created per theme.

## Input

Metadata files (/mtdata/geo/gpms/input/mrf)

List file (/mtdata/geo/gpms/input/list)

Input metadata files are XML files that meet specific format and content requirements specified in the Census MRF format standard and must be located in the **/mtdata/geo/gpms/input/MRF** directory.

**NOTE**: Sample/test metadata files can be found in the input directory (mtdata/geo/gpms/input/mrf). A corresponding sample/test List File can be found in the list file directory (mtdata/geo/gpms/input/list).

## The List File

The List File is a text file created by the user that contains the names of the metadata files to be processed, the profile flag and the posting flag of the files to be processed. The List File should have the metadata file name followed by a space, the profile flag, a space and the posting flag.

The List file must be located in the **/mtdata/geo/gpms/input/list** directory.

There should not be any file path specified in the List File since input files must be located in the **/mtdata/geo/gpms/input/mrf** directory.

The profile flag indicates the GPMS profile type for the metadata file. These profile flags are listed below:

* v for the Vector profile
* k for the KML profile

**NOTE**: The profile type for Cartographic Shapefiles is **v for the vector** metadata files (.shp.xml) or **k for KML** metadata fileS (.shp.xml).

The posting flag (“p” for post, “np” for no post) indicates whether the file is to be posted to the www.geoplatform.gov and data.gov portals. The metadata files are posted by National/State Geographic Partnerships Branch (NSGPB) as a separate step, after production, once the product sponsor has officially released the product.

**NOTE**: The posting flag for cartographic Shapefiles is “p”.

Here is an example list file that was created to process the 2015 cartographic Shapefile metadata files:

cb\_2013\_01\_bg\_500k.mrf v p

cb\_2013\_01\_sldl\_500k.mrf v p

cb\_2013\_02\_sldu\_500k.mrf k p

cb\_2013\_02\_county\_within\_ua\_500k.mrf v p

cb\_2013\_02\_bg\_500k.mrf v p

cb\_2013\_02\_anrc\_500k.mrf v p

cb\_2013\_02\_cousub\_500k.mrf v p

cb\_2013\_02\_sldu\_500k\_bad.mrf k p

## Output

Validated metadata file will be sent to the following directories:

* /mtdata/geo/gpms/output/fgdc
* /mtdata/geo/gpms/output/ISO
* /mtdata/geo/gpms/output/ISO/usersuppliedname/EAFiles
* /mtdata/geo/gpms/output/ISOParent

**NOTE:** Validated cartographic Shapefile metadata files will be written to /mtdata/geo/gpms/output/ISOParent, /mtdata/geo/gpms/output/fgdc, /mtdata/geo/gpms/output/ISO and /mtdata/geo/gpms/output/ISO/usersuppliedname/EAFiles.

**NOTE:** Every output file type has its own file extension. Table one describes each output file type.

The **/mtdata/geo/gpms/output/fgdc** will contain metadata files in the Federal Geographic Data Committee’s (FGDC) Content Standard for Digital Geospatial (CSDGM) metadata. Files in this directory will end in the **.xml** extension.

The **/mtdata/geo/gpms/output/ISO** directory will contain files in the ISO 19115-2 (ISO 19115-2:2009(E)) format. These files contain all the information contained in the CSDGM files with the exception of attribute and entity information. All files in this directory will end in the **.shp.iso.xml** extension.

Entity and attribute information is stored in files in the ISO 19110 or feature catalog format. These files are stored in a subdirectory of the ISO directory **(/mtdata/geo/gpms/output/ISO/usersuppliedname/EAFiles**). Only one file will be made per theme. All files in this directory will end in the **.shp.ea.iso.xml** extension.

The **/mtdata/geo/gpms/output/ISOParent** directory will contain series information files. These files are created for discovery on data.gov and geoplatform.gov. These file exist to indicate that a series of files with a similar theme (i.e. roads, places) exist. Themes at all levels of Census geography (national, state and local) will receive series information files. All files in this directory will end in the **.shp.iso.xml** extension.

Log file (**/mtdata/geo/gpms/log**)

 The log file will be in a subdirectory under the log directory. See Output File Subdirectory Names section below for information on the naming convention of the subdirectory. All the log files will end in the **.log** extension. The log file contains the following:

* the number of files that were transformed
* the date and time the translation/validation took place
* the name of the file containing the filenames to be validated
* a list of files that could not be found
* files that did not have either a profile or posting flag and therefore could not be processed
* files that have improper XML
* files that failed validation
* files that passed validation and had FGDC and ISO output files made
* a list of the entity and attribute files made
* a list of the series information files made

Error file (**/mtdata/geo/gpms/log**)

An error file (.err) detailing metadata validation errors is created if validation errors are encountered. They are placed in a subdirectory of the log file directory (**/mtdata/geo/gpms/log**).

FailedFiles file (**/mtdata/geo/gpms/log**)

A text file containing the name, the profile flag, and the posting flag for each file that failed translation/validation is created if validation errors are encountered. The file is placed in a subdirectory of the log file directory (**/mtdata/geo/gpms/log**).

UnknownThemes.txt

A text file containing the names of all the files whose theme could not be determined from the filename. As with the fore mentioned FailedFiles file, this file is placed in a subdirectory of the log file directory (**/mtdata/geo/gpms/log**).

Table 1 Directories and filetypes used by the Perl script when creating output files

|  |  |  |
| --- | --- | --- |
| Directory | Extension | Explanation |
| /mtdata/geo/gpms/output/fgdc | .xml | Validated output files in the FGDC CSDGM format |
| /mtdata/geo/gpms/output/ISO | .shp.iso.xml | Validated metadata in the 19115-2 format. This file contains all the information with the exception of the Entity and Attribute information. |
| /mtdata/geo/gpms/output/ISO/usersuppliedname/EAFiles | .shp.ea.iso.xml | Validated metadata in the ISO 19110 format. This file contains all the entity and attribute information. |
| /mtdata/geo/gpms/log | .log | A history of the script run. This file contains lists of all the files that passed validation and all the files that failed validation. |
| /mtdata/geo/gpms/log | .err | A text file detailing the validation errors. |
| /mtdata/geo/gpms/log | .txt | There are two text files in this directory. FailedFiles.txt lists the files that failed validation with their profile and posting flags. UnknownThemes.txt one contains the names of all the files whose theme could not be determined. |

## Output file subdirectory names

MRF2ISO\_ver1Rel.px will create subdirectories for output metadata files and log files with the following naming convention: *usersuppliednameyyyymmdd:hh:mm* where *usersuppliedname* is the product name abbreviation supplied by the user at the command prompt and *yyyymmdd:hh:mm* is the system assigned date and time the script is executed (yyyy=year, mm=month, dd: =day, hh: =hour, and mm:=minute).

## Exit Status

MRF2ISO\_ver1Rel.px captures the exit status of the program is captured using the Perl exit command. The exit status codes are as follows:

0 = the program ran successfully and the input passed validation

1 = the program failed to complete due to a missing parameter, etc.

2 = the program ran successfully and input failed validation

## Execution of the script

At the Linux command line or within a command procedure, run the Perl script: MRF2ISO\_ver1Rel.px

Required Input Parameters:

* Name of user’s List File
* The name of the directory containing the files to be validated
* Product name abbreviation for which metadata is being created (i.e. TL2007FE)

Usage:

perl MRF2ISO\_ver1Rel.px –listfile=*listfile -*directory*=/dir/subdir -*product=*productnameabbreviation*

The List File is a text file in the **mtdata/geo/gpms/input/list** directory that contains the filenames to be processed. More information on the list file is supplied in Section 1.

The directory specifies the directory containing the input MRF XML files to be validated.

The product name abbreviation is a user supplied name that is utilized by the script to name the subdirectories created under the following directories:

 mtdata/geo/gpms/output/fgdc, mtdata/geo/gpms/output/ISO, /mtdata001/geo/gpms/output/ISOParent and mtdata/geo/gpms/log.

Example execution:

 perl MRF2ISO\_ver1Rel.px -listfile=list.txt -directory=/dir/subdir -product=PLACE500K

## Validation Failures

For files that fail validation, the error file (.err) and the original MRF input file will be available in a directory under the log directory as an aid to diagnosing problems.

**NOTE:** Three of the sample metadata files are deficient and should fail validation:

* cb\_2013\_02\_bg\_500k.mrf
* cb\_2013\_02\_cousub\_500k.mrf
* cb\_2013\_02\_sldu\_500k\_bad.mrf

# II. Scope of this Release

This is the first release of the MRF2ISO\_ver1Rel.px

The timing for this release corresponds to validating the metadata files for the 2015 Cartographic Shapefiles.

# III. Known Problems and Workarounds

This script will ignore any elements that do not have the correct XML tags or are out of place in the metadata file.

This script will not process any files without profile and/or posting flags.

Entity and Attribute files will not be created for any files whose theme cannot be determined.

# IV. References

*Geospatial Product Metadata Standard System Software Requirement Specification.*

from: [https://collab.ecm.census.gov/div/geo/CM.Repository/\_layouts/WordViewer.aspx?id=/div/geo/CM.Repository/LegacyCRs/0000s%20(less%20than%201000)/MT.CR.663\_attachment%20SEP\_8610\_SRS.doc&DefaultItemOpen=1&Source=http%3A%2F%2Fintranet%2Eecm%2Ecensus%2Egov%2Fsites%2Fsearch%2Fpages%2Fresults%2Easpx%3Fk%3DMetadata%2520Repository%2520Format%26r%3Dwrite%253D%2522AQdFYXJsaWVyBXdyaXRlABcBWzsyMDE0LTAxLTI2VDIzOjU5OjU5Wl0%253D%2522](https://collab.ecm.census.gov/div/geo/CM.Repository/_layouts/WordViewer.aspx?id=/div/geo/CM.Repository/LegacyCRs/0000s%20%28less%20than%201000%29/MT.CR.663_attachment%20SEP_8610_SRS.doc&DefaultItemOpen=1&Source=http%3A%2F%2Fintranet%2Eecm%2Ecensus%2Egov%2Fsites%2Fsearch%2Fpages%2Fresults%2Easpx%3Fk%3DMetadata%2520Repository%2520Format%26r%3Dwrite%253D%2522AQdFYXJsaWVyBXdyaXRlABcBWzsyMDE0LTAxLTI2VDIzOjU5OjU5Wl0%253D%2522)

*Geospatial Product Metadata Standard Version 5.0* <https://collab.ecm.census.gov/div/geo/cpb/SiteAssets/CAMPS%20Wiki/MRF/GPMS_D6_1VER5_0_SIGNED.docx>

*ISO 19115-2 Geographic information-Metadata Part 2: Extensions for imagery and gridded data Workbook: Guide to implementing ISO 19115-2:2009, the North American Profile and ISO 19110 Feature Catalogue,* August 2011, National Coastal Development Center, National Oceanographic Data Center, National Oceanic and Atmospheric Administration.

From: [http://www.ncddc.noaa.gov/metadata-standards/](http://www.ncddc.noaa.gov/metadata-standards/%20)

**NOTE:**

MRF2ISO\_ver1Rel.px is a first phase development product. The first phase development addresses the **GPMS System SRS requirements 4.1 – 4.3 and 4.5 only**. A pre-defined directory structure will serve as a pseudo “metadata repository” described in 4.4.

# V. Operating System

The following is the Operating system environment.

|  |  |
| --- | --- |
| Software | Description |
| LINUX | Blade server operating system  |

# VI. Software Overview

MRF2ISO\_ver1Rel.px is a Perl script. This script uses the GetOpt::Long, File::Copy, DateTrans.pm and xsdxsltcheck.pm modules. It also uses Saxon-SA 8.6.1 XSLT processor and Java Development Kit 1.5.0\_24.

# VII. COTS Interfaces

The system uses the following COTS:

PERL for Linux,

The script references PERL using /usr/lib/perl

Saxon-SA

 The script references saxon8sa.jar using /opt/saxon\_lib/saxon/saxon8sa.jar

Java Development Kit (JDK)

 The software references JDK using /apps/saxon/jdk1.5.0\_24

The CLASSPATH and PATH environment variables can be used to reference Saxon-SA and JDK for the user’s command procedure. For example:

export PATH=/apps/saxon/jdk1.5.0\_24/bin:$PATH

export CLASSPATH=/apps/saxon/jdk1.5.0\_24/lib/:/apps/saxon\_lib/saxon/ saxon9ee.jar:/opt/saxon\_lib/saxon/ saxon9ee:/opt/saxon\_lib/saxon/

in script

$ENV{'PATH'} = "/apps/saxon/jdk1.5.0\_24/bin::/apps/saxon/saxon9ee.jar::/apps/saxon:$rootout/mrf/$newerrdir:$ENV{'PATH'}";

$ENV{$cp} = "/apps/saxon/jdk1.5.0\_24/lib/:/apps/saxon/saxon9ee.jar:/apps/saxon/saxon9ee.jar $CLASSPATH:/usr/share/java/saxon.jar";

# VIII. Software Interfaces

None

# IX. Databases Needed

None

# X. Installation/System Assembly

The Serena VM version label for this release is “**MRF2ISO\_ver1Rel**”.

## CM Instructions

Create the following directories:

/mtdata/geo/gpms

/mtdata/geo/gpms/input

/mtdata/geo/gpms/input/mrf

/mtdata/geo/gpms/input/list

/mtdata/geo/gpms/log

/mtdata/geo/gpms/output

/mtdata/geo/gpms/output/fgdc

/mtdata/geo/gpms/output/ISO

/mtdata001/geo/gpms/output/ISOParent

/mt/apps/gpms

/mt/apps/gpms/DateTrans

/mt/apps/gpms/DateTrans/lib

/mt/apps/gpms/DateTrans/t

/mt/apps/gpms/xsl

/mt/apps/gpms/xsl/xsl4mrf2fgdc

/mt/apps/gpms/mrf2ea

/mt/apps/gpms/mrf2ISO

/mt/apps/gpms/xsd

Perform the following tasks to release version GPMS\_TVBatch\_Ver9 (using Serena VM version label “**MRF2ISO\_ver1Rel**”):

1. Copy the following file(s) as text:

From: Serena VM: GEO.CM.REPOSITORY: SPATIAL\_EXTRACT\_PRODUCTS: MRF2ISO: XSLT Transforms: mrf2ISO

To: /mt/apps/gpms/mrf2ISO

* 1. 01\_gmd\_fileIdentifier.xsl
	2. 02\_gmd\_language.xsl
	3. 03\_gmd\_characterSet.xsl
	4. 03B\_gmd\_parentIdentifier.xsl
	5. 04\_gmd\_hierarchySet.xsl
	6. 05\_gmd\_contact.xsl
	7. 06\_gmd\_dateStamp.xsl
	8. 07\_gmd\_metadataStandardName.xsl
	9. 08\_gmd\_dataSetURI.xsl
	10. 09\_gmd\_spatialRepresentationInfo.xsl
	11. 10\_gmd\_referenceSystemInfo.xsl
	12. 11\_gmd\_identificationInfo.xsl
	13. 12\_gmd\_contentInfo.xsl
	14. 13\_gmd\_distributionInfo.xsl
	15. 14\_gmd\_dataQualityInfo.xsl
	16. 15\_metadataMaintenance.xsl
	17. distCont.xsl
	18. ExtraContent.xsl
	19. ExtraDataQualityTemplate.xsl
	20. IdPointOfContact.xsl
	21. ISOKeywords.xsl
	22. MD\_MaintenanceFrequencyCode.xsl
	23. MD\_MediumFormatCode.xsl
	24. MD\_SpatialRepresentationType.xsl
	25. mrf2ISOMaster.xsl
	26. NGDA\_Themes.xsl
1. NonISOKeywords.xsl
2. Copy the following file(s) as text:

from: Serena VM : GEO.CM.REPOSITORY : SPATIAL\_EXTRACT\_PRODUCTS : MRF2ISO: Data : SampleMRFfiles

To: /mtdata/geo/gpms/input/MRF/Test

* 1. cb\_2013\_01\_bg\_500k.mrf
	2. cb\_2013\_01\_cousub\_500k.mrf
	3. cb\_2013\_01\_place\_500k.mrf
	4. cb\_2013\_01\_puma10\_500k.mrf
	5. cb\_2013\_01\_sldl\_500k.mrf
	6. cb\_2013\_01\_sldu\_500k.mrf
	7. cb\_2013\_01\_tract\_500k.mrf
	8. cb\_2013\_02\_anrc\_500k.mrf
	9. cb\_2013\_02\_bg\_500k.mrf
	10. cb\_2013\_02\_county\_within\_ua\_500k.mrf
	11. cb\_2013\_02\_cousub\_500k.mrf
	12. cb\_2013\_02\_sldu\_500k.mrf
	13. cb\_2013\_02\_sldu\_500k\_bad.mrf
	14. cb\_2013\_us\_aiannh\_500k.mrf
	15. cb\_2013\_us\_cbsa\_20m.mrf
	16. cb\_2013\_us\_cbsa\_500k.mrf
	17. cb\_2013\_us\_cbsa\_5m.mrf
	18. cb\_2013\_us\_cd113\_20m.mrf
	19. cb\_2013\_us\_cd113\_500k.mrf
	20. cb\_2013\_us\_cd113\_5m.mrf
	21. cb\_2013\_us\_county\_20m.mrf
	22. cb\_2013\_us\_county\_500k.mrf
	23. cb\_2013\_us\_county\_5m.mrf
	24. cb\_2013\_us\_county\_within\_cd113\_500k.mrf
	25. cb\_2013\_us\_csa\_20m.mrf
	26. cb\_2013\_us\_csa\_500k.mrf
	27. cb\_2013\_us\_csa\_5m.mrf
	28. cb\_2013\_us\_division\_20m.mrf
	29. cb\_2013\_us\_division\_500k.mrf
	30. cb\_2013\_us\_division\_5m.mrf
	31. cb\_2013\_us\_nation\_20m.mrf
	32. cb\_2013\_us\_nation\_500k.mrf
	33. cb\_2013\_us\_nation\_5m.mrf
	34. cb\_2013\_us\_necta\_500k.mrf
	35. cb\_2013\_us\_region\_20m.mrf
	36. cb\_2013\_us\_region\_500k.mrf
	37. cb\_2013\_us\_region\_5m.mrf
	38. cb\_2013\_us\_state\_20m.mrf
	39. cb\_2013\_us\_state\_500k.mrf
	40. cb\_2013\_us\_state\_5m.mrf
	41. cb\_2013\_us\_ua10\_500k.mrf
	42. cb\_2013\_us\_zcta510\_500k.mrf
1. Copy the following file(s) as text:

from: Serena VM : GEO.CM.REPOSITORY : SPATIAL\_EXTRACT\_PRODUCTS : MRF2ISO: Data : List

to: /mtdata/geo/gpms/input/list

* 1. MRFTest\_mif\_listfile.txt
1. Copy the following file(s) as text:

from: Serena VM : GEO.CM.REPOSITORY : SPATIAL\_EXTRACT\_PRODUCTS : MRF2ISO: Perl

To: /mt/apps/gpms

* 1. MRF2ISO\_ver1Rel.px
1. Copy the following file(s) as text:

from: Serena VM : GEO.CM.REPOSITORY : SPATIAL\_EXTRACT\_PRODUCTS : MRF2ISO: Perl : DateTrans

To: /mt/apps/gpms/DateTrans

* 1. Changes
	2. Makefile.PL
	3. MANIFEST
	4. README
1. Copy the following file(s) as text:

from: Serena VM : GEO.CM.REPOSITORY : SPATIAL\_EXTRACT\_PRODUCTS : MRF2ISO : Perl : DateTrans: lib

To: /mt/apps/gpms/DateTrans/lib

* 1. DateTrans.pm
	2. xsdxsltcheck.pm
1. Copy the following file(s) as text:

from: Serena VM : GEO.CM.REPOSITORY : SPATIAL\_EXTRACT\_PRODUCTS : MRF2ISO: Source : Perl : DateTrans: t

To: /mt/apps/gpms/DateTrans/t

* 1. DateTrans.t
1. Copy the following file(s) as text:

From: Serena VM: GEO.CM.REPOSITORY: SPATIAL\_EXTRACT\_PRODUCTS: MRF2ISO: XSD Schemas

to: /mt/apps/gpms/xsd

* 1. Atlas.xsd
	2. CitationInformation.xsd
	3. ContactInformation.xsd
	4. DataQualityInformation.xsd
	5. DistributionInformation.xsd
	6. Edges.xsd
	7. EdgesEnhanced.xsd
	8. EntityAndAttributeInformation.xsd
	9. IdentificationInformation.xsd
	10. Legacy.xsd
	11. Map.xsd
	12. MetadataeferenceInformation.xsd
	13. MiscTypesAndGroups.xsd
	14. Planned.xsd
	15. Repository.xsd
	16. SpatialDataOrganizationInformation.xsd
	17. SpatialReferenceInformation.xsd
	18. Tabular.xsd
	19. Test.xsd
	20. Vector.xsd
1. Copy the following file(s) as text:

From: Serena VM: GEO.CM.REPOSITORY: SPATIAL\_EXTRACT\_PRODUCTS: MRF2ISO: XSLT Transforms: mrf2ISOParent

 To: /mt/apps/gpms/mrf2ISOParent

* 1. 01\_gmd\_fileIdentifier.xsl
	2. 02\_gmd\_language.xsl
	3. 03\_gmd\_characterSet.xsl
	4. 03B\_gmd\_parentIdentifier.xsl
	5. 04\_gmd\_hierarchySet.xsl
	6. 05\_gmd\_contact.xsl
	7. 06\_gmd\_dateStamp.xsl
	8. 07\_gmd\_metadataStandardName.xsl
	9. 08\_gmd\_dataSetURI.xsl
	10. 09\_gmd\_spatialRepresentationInfo.xsl
	11. 10\_gmd\_referenceSystemInfo.xsl
	12. 11\_gmd\_identificationInfo.xsl
	13. 12\_gmd\_contentInfo.xsl
	14. 13\_gmd\_distributionInfo.xsl
	15. 14\_gmd\_dataQualityInfo.xsl
	16. 15\_metadataMaintenance.xsl
	17. abstract.xsl
	18. boundingCoordinates.xsl
	19. distCont.xsl
	20. extent.xsl
	21. ExtraContent.xsl
	22. ExtraDataQualityTemplate.xsl
	23. IdPointOfContact.xsl
	24. ISOKeywords.xsl
	25. MD\_MaintenanceFrequencyCode.xsl
	26. MD\_MediumFormatCode.xsl
	27. MD\_SpatialRepresentationType.xsl
	28. MRF2ISOParent.xsl
	29. NGDA\_Themes.xsl
	30. NonISOKeywords.xsl
	31. SeriesInfoTitle.xsl
	32. title.xsl
1. Copy the following file(s) as text:

From: Serena VM: GEO.CM.REPOSITORY: SPATIAL\_EXTRACT\_PRODUCTS: MRF2ISO: XSLT Transforms: mrf2FGDC

To: /mt/apps/gpms/xsl/xsl4mrf2fgdc

* 1. 01\_Identification\_Information.xsl
	2. 02\_Data\_Quality\_Information.xsl
	3. 03\_Spatial\_Data\_Organization\_Information.xsl
	4. 04\_Spatial\_Reference\_Information.xsl
	5. 05\_Entity\_And\_Attribute\_Information.xsl
	6. 06\_Distribution\_Information.xsl
	7. 07\_Metadata\_Reference\_Information.xsl
	8. MRF2FGDC.xsl
1. Copy the following file(s) as text:

From: Serena VM: GEO.CM.REPOSITORY: SPATIAL\_EXTRACT\_PRODUCTS: MRF2ISO: XSLT Transforms: mrf2ea

to: /mt/apps/gpms/mrf2ea

1. 01\_name.xsl
2. 02\_scope.xsl
3. 03\_version.xsl
4. 04\_LanguageCharacterset.xsl
5. 05\_gmd\_contact.xsl
6. 06\_gfc\_featureType.xsl
7. gfc\_carrierOfCharacteristics.xsl
8. mrf2eamaster.xsl

# XI. Software Usage

At the Linux command line or within a command procedure, run the Perl script: MRF2ISO\_ver1Rel.px

Required Input Parameters:

Name of user’s List File

Product name abbreviation for which metadata is being created (i.e. Place500K)

Usage:

perl *MRF2ISO\_ver1Rel.px* –listfile=*listfile -*directory*=/dir/subdir -*product=*productnameabbreviation*

The List File is a text file in the mtdata/geo/gpms/input/list directory that contains the filenames to be processed.

The directory specifies the directory containing the input MRF XML files to be validated.

The product name abbreviation is a user supplied name that is utilized by the script to name the subdirectories created under the following directories:

mtdata/geo/gpms/output/fgdc, mtdata/geo/gpms/output/ISO, /mtdata/geo/gpms/output/ISOParent and mtdata/geo/gpms/log.

Example execution:

 perl MRF2ISO\_ver1Rel.px -listfile=list.txt -directory=/dir/subdir -product=PLACE500K

XI. Contacts

|  |  |
| --- | --- |
| Person | Email |
| Matthew McCready | Matthew.j.mccready@census.gov |
| Lynda Liptrap | Lynda.a.liptrap@census.gov |