

Metadata Specification

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Element Description

The Metadata Specification element requires the user to add in schema information into every granule record. It includes the schema's name, version, and URL location.

Best Practices

The information provided in this element is controlled through enumerations.

There are three sub-elements that comprise the Metadata Specification element:

- **URL:** This element provides the URL where the schema lives or where the schema can be downloaded.
- **Name:** This element provides the name of the schema.
- **Version:** This element provides the version of the schema.

Example:

```
"MetadataSpecification": [  
  {  
    "URL": "https://cdn.earthdata.nasa.gov/umm/granule/v1.6.5",  
    "Name": "UMM-G",  
    "Version": "1.6.5"  
  }  
],
```

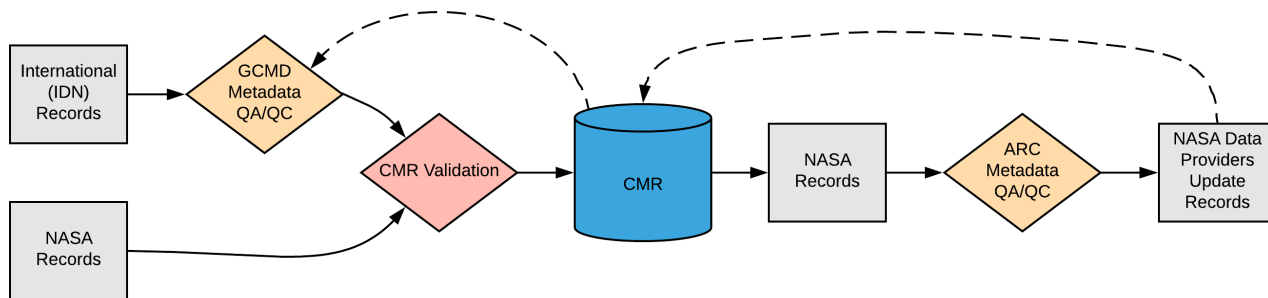
Element Specification

Metadata Specification is required in the UMM-G (Cardinality: 1).

Model	Element	Type	Constraints	Required?	Cardinality
UMM-G	MetadataSpecification/URL	Constant	https://cdn.earthdata.nasa.gov/umm/granule/v1.6.5	Yes	1
UMM-G	MetadataSpecification/Name	Constant	UMM-G	Yes	1
UMM-G	MetadataSpecification/Version	Constant	1.6.5	Yes	1

Metadata Validation and QA/QC

All metadata entering the CMR goes through the below process to ensure metadata quality requirements are met. All records undergo CMR validation before entering the system. The process of QA/QC is slightly different for NASA and non-NASA data providers. Non-NASA providers include interagency and international data providers and are referred to as the International Directory Network (IDN).



Please see the expandable sections below for flowchart details.

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ARC Priority Matrix

Priority Categorization	Justification
Red = High Priority Finding	This element is categorized as highest priority when: <ul style="list-style-type: none"> No Metadata Specification is provided (specifically in UMM-G format granule metadata records).
Yellow = Medium Priority Finding	Not Applicable
Blue = Low Priority Finding	Not Applicable
Green = No Findings/Issues	The element is provided and follows all applicable criteria specified in the best practices section above.

ARC Automated Checks

ARC uses the [pyQuARC library](#) for automated metadata checks. Please see the [pyQuARC GitHub](#) for more information.

Dialect Mappings

ECHO 10

The Metadata Specification element does not currently map to ECHO 10.

UMM-G Element	ECHO 10 Path	Type	Constraints	Required in ECHO10?	Cardinality
MetadataSpecification	N/A	N/A	N/A	N/A	N/A

Example Mapping

ECHO 10

N/A

UMM

N/A

ISO 19115-2 MENDS

The Metadata Specification element does not currently map to ISO 19115-2 MENDS.

UMM-G Element	ISO Path	Type	Notes
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MetadataSpecification	N/A	N/A	N/A
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Example Mapping

ISO 19115-2 MENDS

N/A

UMM

N/A

ISO 19115-2 SMAP

The Metadata Specification element does not currently map to ISO 19115-2 SMAP.

UMM-G Element	ISO Path	Type	Notes
MetadataSpecification	N/A	N/A	N/A

Example Mapping

ISO 19115-2 SMAP

N/A

UMM

N/A

UMM Migration

UMM Version 1.4.0	Translation Direction	UMM Version 1.5.0

History

UMM Versioning

Version	Date	What Changed
1.6.1	5/28/2020	Updated the version number to 1.6.1.
1.6.0	11/4/2019	Updated the version number to 1.6.
1.5.0	01/30/2019	The Metadata Specification element was added to the UMM-G schema during the transition from version 1.4.0 to 1.5.0.
1.4.0	08/01/2018	Metadata Specification was not available in version 1.4.0.

ARC Documentation

Version	Date	What Changed	Author
1.0	04/22/2019	Recommendations/priority matrix transferred from internal ARC documentation to wiki space	Ingrid Garcia-Solera Jeanne' le Roux

