ANZLIC Interface Design and Development Changes for ArcGIS 10.1

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# ArcCatalog Options

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **ANZLIC** | **Validation**   |  |  |  | | --- | --- | --- | | **Element** | **XML Tag** | **#** | |
| Metadata Style Configuration | | |
| "C:\Program Files (x86)\ArcGIS\Desktop10.1\Metadata\Config\ANZLIC.cfg"  C:\Program Files (x86)\ArcGIS\Desktop10.1\Metadata\Stylesheets\ArcGIS\_Imports\anzlic.xslt |  |  |

# ArcCatalog Form Elements

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| --- | --- | --- | --- | --- | --- |
| **ISO 19139** | **ANZLIC** | **Validation**   |  |  |  | | --- | --- | --- | | **Element** | **XML Tag** | **#** | |
| Forms | | |
|  |  |  |

| Overview | | |
| --- | --- | --- |
| Item Description | | |
|  |  | |  |  |  | | --- | --- | --- | | **Abstract  (M)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > abstract [25] | **25** | | Purpose | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > citation [24] > CI\_Citation [359] > purpose [26] | 26 | | **Title**  **(M)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23 > MD\_DataIdentification [36] > citation [24] > CI\_Citation [359] > title [360] | **360** | |
| Code Changes | ANZLIC.cfg:   * Keep the Validation for the *Abstract* and *Title* Elements. * **Removed** Validation for Tools and Extent Elements   IntemInfo.xml.cs   * Only Show the Elements defined the elements column. * EsriAU Comment **10001**: Hide Thumbnail element   EsriAU Comment **10002**: Comment the rest of the elements | |

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| --- | --- | --- |
| Topics & Keywords | | |
|  |  | |  |  |  | | --- | --- | --- | | Keyword (ANZLIC Search Words)  **(M)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > descriptiveKeywords [33] > MD\_Keywords [52] > thesaurusName [53] | 53 | | PLACE KEYWORDS (ASGC) | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > descriptiveKeywords [33] > MD\_Keywords [52] > thesaurusName [53] | 53 | | **Topic Category (ISO)**  **(M)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > topicCategory [41] | 41 | |
| Code Changes | ANZLIC.cfg:   * Keep the Validation for …..   Keywords.xml   * Only shown the elements defined the elements column. * EsriAU Comment **10200**: Hide Rest of the keyword elements * EsriAU Comment **10201**: Move Content Type Underneath Theme Keywords   MD\_Keywords.xaml.cs   * EsriAU Comment **10202**: Add Reference to ANZLIC Defaults Class; * EsriAU Comment **10203**: Create a new Defaults object * EsriAU Comment **10204**: Intialise the Defaults * EsriAU Comment **10205**: Set XMLProvider for ANZLICsearchThemes * EsriAU Comment **10206**: Add Code to add the selected item to the Keywords List and prevent the used from typing text in the text box   MD\_Keywords.xaml   * Create a dropdown list for the topic elements, see the example supplied by Esri in the toolkit pack * EsriAU Comment **10207**: Data provider for Custom Keywords XML * EsriAU Comment **10208**: Create a dropdown list control and assign it to the Data Provider * EsriAU Comment **10209**: Add a Name parmater to the Textbox so you can refernce it in the Code (see 10007) | |
| Citation | | |
|  |  | |  |  |  | | --- | --- | --- | | Resource Reference Date Type (code list) | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > citation [24] > CI\_Citation [359] > date [362] > CI\_Date [393] > dateTypes [395] | 395 | | Alternative Title (file name) | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > citation [24] > CI\_Citation [359] > alternateTitle [361] | 361 | | **Resource Reference Date (Revision Date)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > citation [24] > CI\_Citation [359] > date [362] > CI\_Date [393] > date [394] | **394** | |
| Code Changes | ANZLIC.cfg:   * Add CustomMetadataEditor.Pages.DatasetCitation * EsriAU Comment **10010**: Set Validation for All Dates   CI\_Citation.xaml:   * EsriAU Comment **10011**: Remove additional Dates from the display by adding e:MetadataStyle.OnlyProfiles="NAP" * EsriAU Comment **10012**: Remove additional reponsible parties * EsriAU Comment **10013**: Remove additional ISBN ans ISSN from the display by adding e:MetadataStyle.OnlyProfiles="NAP" * EsriAU Comment **10014**: Remove ISO presentation from the display by adding e:MetadataStyle.OnlyProfiles="NAP" * EsriAU Comment **10015**: Remove Other Details from the display | |
| Citation Contacts | | |
|  |  | |  |  |  | | --- | --- | --- | | Organisation Name | MD\_Metadata [1] >contact [8] >CI\_ResponsibleParty [374] >organisationName [376] | 376 | | Personal Name | MD\_Metadata [1] > contact [8] > CI\_ResponsibleParty [374] > individualName [375] | 375 | | Position Name | MD\_Metadata [1] >contact [8] >CI\_ResponsibleParty [374] > positionName [377] | 377 | | Role (Data contact) (internal) | MD\_Metadata [1] > contact [8] > CI\_ResponsibleParty [374] > role [379] | 379 | |
| Code Changes | ANZLIC.cfg:   * Add <page class= "CustomMetadataEditor.Pages.ResourceCitationContacts,EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **10400**: Set Validation   CI\_ResponsibleParty.xaml:   * EsriAU Comment **10401**: Data provider for Organisation List * EsriAU Comment **10402**: Add Dropdown List for the Organisations and bind it to rpOrgName * EsriAU Comment **10403**: Data provider for Position and Set the Source in the cs file see Comment 1003 * EsriAU Comment **10404**: Add Dropdown List for the Positions and bind it to rpPosName * EsriAU Comment **10405:** Add Loaded Event to Textbox to add Default Values * EsriAU Comment **10406:** Add Loaded Event to Textbox to add Default Values * EsriAU Comment **10407:** Add Loaded Event to Textbox to add Default Values * EsriAU Comment **10408:** ‘’’’ * EsriAU Comment **10409:** Add Textbox to add Default Values   CI\_ResponsibleParty.cs:  EsriAU Comment **10411**: Add Reference to ANZLIC Defaults Class ; using CustomMetadataEditor.ANZLIC\_Defaultss;   * EsriAU Comment **10412**: Create a new Defaults object; DefaultValues oDefault = new DefaultValues(); * EsriAU Comment **10413:** Intialise the Defaults * EsriAU Comment **10414:** Set XMLProvider for Organisations * EsriAU Comment **10415:** Set XMLProvider for Positions * EsriAU Comment **10416:** Add themethod to handle Default Value loads   CI\_Contact.xml.cs  EsriAU Comment **10421**: Add Reference to ANZLIC Defaults Class; using CustomMetadataEditor.ANZLIC\_Defaultss;   * EsriAU Comment **10422**: Create a new Defaults object; DefaultValues oDefault = new DefaultValues(); * EsriAU Comment **10433:** Intialise the Defaults; DefaultValues oDefault = new DefaultValues(); * EsriAU Comment **10444:** Add themethods to handle Default Value loads * EsriAU Comment **10445**: Intialise the Defaults; oDefault.Initialize();   CI\_Contact.xml   * EsriAU Comment **10446:** Add theLoadedevent to handle Default Value loads   Loaded="TextBox\_Loaded" />   * For   + CI\_Address\_electronicMailAddress   + CI\_Address\_deliveryPoint   + CI\_Address\_city   + CI\_Address\_administrativeArea   + CI\_Address\_country   + CI\_Telephone\_voice   + CI\_Telephone\_facsimile * EsriAU Comment **10447:** Add column for default textboxes to manage Default Values * EsriAU Comment **10448:** Add Textboxto manage Default Values   + addressType   + CI\_Address\_country   CI\_OnlineResource.xaml.cs   * EsriAU Comment **10450:** Add Textboxto manage Default Values   CI\_OnlineResource.xaml   * EsriAU Comment **10451**: Add Reference to ANZLIC Defaults Class; using CustomMetadataEditor.ANZLIC\_Defaultss; * EsriAU Comment **10452**: Create a new Defaults object; DefaultValues oDefault = new DefaultValues(); * EsriAU Comment **10453**: Intialise the Defaults; oDefault.Initialize(); * EsriAU Comment **10454:** Add themethods to handle Default Value loads | |
| Locales | | |
|  |  |  |
| Code Changes | ANZLIC.cfg:   * Add <page class="CustomMetadataEditor.Pages.Locales,EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **10500**: Set Validation   Locales.xaml   * EsriAU Comment **10510**: Add Grid and Rows and column for default textboxes to manage Default Values * EsriAU Comment **10511**: Add Textbox to manage Language Default Values * EsriAU Comment **10512**: Add Textbox to manage Country Default Values   Locales.xaml.cs   * EsriAU Comment **10551**: Add Reference to ANZLIC Defaults Class; using CustomMetadataEditor.ANZLIC\_Defaultss; * EsriAU Comment **10552**: Create a new Defaults object; DefaultValues oDefault = new DefaultValues(); * EsriAU Comment **10553**: Intialise the Defaults; oDefault.Initialize(); * EsriAU Comment **10554**: Add Textbox Load event to manage Language Default Values * EsriAU Comment **105554**: Add Textbox Load event to manage Country Default Values | |

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| --- | --- | --- |
| Metadata | | |
| Metadata Details | | |
|  |  | |  |  |  | | --- | --- | --- | | ANZLIC Identifier (historical) | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > citation [24] > CI\_Citation [359] > identifier [365] |  | | Dataset URL | MD\_Metadata [1] > datasetURI [11.1] | 11.1 | | Hierarchy Level | MD\_Metadata [1] > hierarchyLevel [6] | 6 | | Hierarchy Level Name (if not dataset) | MD\_Metadata [1] > hierarchyLevelName [7] | 7 | | Identifier of Related Resource | MD\_Metadata [1] >identificationInfo [15] >MD\_Identification [23] >MD\_DataIdentification- [36] >aggregationInfo [35.1] > MD\_AggregateInformation [66.1] > aggregateDataSetIdentifier [66.3] >MD\_Identifier [205] > code [207] | 207 | | Metadata Character Set | MD\_Metadata [1] > characterSet [4] | 4 | | **Metadata Date stamp** | MD\_Metadata [1] > dateStamp [9] | **9** | | **Metadata File Identifier** | MD\_Metadata [1] > fileIdentifier [2] | **2** | | Metadata Language | MD\_Metadata [1] > language [3] | 3 | | Parent Metadata File Identifier | MD\_Metadata [1] > parentldentifier [5] | 5 | | Relationship | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > aggregationInfo [35.1] > MD\_AggregateInformation [66.1] > associationType [66.4] >DS\_AssociationTypeCode [B.5.7] | 66.4 | |
| Code Changes | ANZLIC.cfg:   * Add <page class="CustomMetadataEditor.Pages.Locales,EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **23100**: Set Validation for Identifier * EsriAU Comment **23101**: Set Validation for Language   MD\_FileIdentifier.xaml   * EsriAU Comment **23110**: Add Validation Mesage for Identifier * EsriAU Comment **23111**: Add Validation for Identifier; v:Nav.AnchorName="mdFileID,."   LanguageCode.xaml.cs   * EsriAU Comment **23151**: Add Reference to ANZLIC Defaults Class; using CustomMetadataEditor.ANZLIC\_Defaultss; * EsriAU Comment **23152**: Create a new Defaults object; DefaultValues oDefault = new DefaultValues(); * EsriAU Comment **23153**: Intialise the Defaults; oDefault.Initialize(); * EsriAU Comment **23154**: Add Textbox Load event to manage Language Default Values | |

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| --- | --- | --- |
| Metadata Contacts | | |
|  |  | |  |  |  | | --- | --- | --- | | Electronic Mail Address | MD\_Metadata [1] > contact [8] > CI\_ResponsibleParty [374] > contactInfo [378] > CI\_Contact [387] > address [389] > CI\_Address [380] > electronicMailAddress [386] | 386 | | **Organisation Name** | MD\_Metadata [1] >contact [8] >CI\_ResponsibleParty [374] >organisationName [376] | **376** | | Personal Name | MD\_Metadata [1] >contact [8] >CI\_ResponsibleParty [374] >individualName [375] | 375 | | **Position Name** | MD\_Metadata [1] >contact [8] >CI\_ResponsibleParty [374] > positionName [377] | **377** | |
| Code Changes | ANZLIC.cfg:   * Add <page class="CustomMetadataEditor.Pages. MetadataContacts,EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **23200**: Set Validation for Contact | |
| Maintenance | | |
|  | Remove | |  |  |  | | --- | --- | --- | | Date of Next Update | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > resourceMaintenance [30] > MD\_MaintenanceInformation [142] > DateOfNextUpdate[144] | 144 | | Maintenance and Update Frequency | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > resourceMaintenance [30] > MD\_MaintenanceInformation [142] > maintenanceAndUpdateFrequency [143] > MD\_MaintenanceFrequencyCode [B.5.18] | 143 | | Maintenance Update Scope | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > resourceMaintenance [30] > MD\_MaintenanceInformation [142] > UpdateScope[146] | 146 | |
| Code Changes | ANZLIC.cfg:   * Remove <page class="CustomMetadataEditor.Pages. MetadataMaintenance,EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **23300**: Set Remove for Metadata Maintenance | |
| Constraints | | |
|  |  | |  |  |  | | --- | --- | --- | | Access Constraints | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > resourceConstraints [35] > MD\_LegalConstraints [69] > otherConstraints [72] | 72 | | **Security Classification (eg Public)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > resourceConstraints [35] > MD\_SecurityConstraints [73] > classification [74] (code list) | **74** | | **Use Constraints (copyright)** | MD\_Metadata [1] > identificationInfo [15] >MD\_Identification [23] > MD\_DataIdentification [36] > resourceConstraints [35] > MD\_LegalConstraints [69] > useConstraints [71] > MD\_RestrictionCode [B.5.24]  MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > resourceConstraints [35] >MD\_LegalConstraints [69 ]> useLimitation [68 ] | **68** | | **Use Constraints (licence)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > resourceConstraints [35] >MD\_LegalConstraints [69 ]> useLimitation [68 ] | **68** | | Use Limitation (Access Constraints) | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > resourceConstraints [35] > MD\_LegalConstraints [69] > accessConstraints [70] | 68 | |
| Code Changes | ANZLIC.cfg:   * Remove <page class="CustomMetadataEditor.Pages.MetadataConstraints,EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **23400**: Set Remove for MetadataConstraints | |

|  |  |  |
| --- | --- | --- |
| Resource | | |
| Resource Details | | |
|  |  | |  |  |  | | --- | --- | --- | | Dataset Character Set | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > characterSet [40] | 40 | | **Dataset Language** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > language [39] | **39** | | Environment | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > environmentDescription [44] | 44 | | Ground Sample Distance (Raster Data) ) or | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > spatialResolution [38] > MD\_Resolution [59] > distance [61] | 61 | | Progress Status | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] >MD\_DataIdentification [36] > status [28] > MD\_ProgressCode [B 5.23] | 28 | | Scale (Vector Data) ) either | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > spatialResolution [38] > MD\_Resolution [59] > equivalentScale [60] > MD\_RepresentativeFraction [56] > denominator [57] | 38 | | Storage Format Name | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > resourceFormat [32] > MD\_Format [284] > name [285] | 285 | | Storage Format Version | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > resourceFormat [32] > MD\_Format [284] > version [286] | 286 | |
| Code Changes | ANZLIC.cfg:   * <page class="CustomMetadataEditor.Pages.ResourceDetails, EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **24100**: Set ResourceDetails | |

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| --- | --- | --- |
| Extents | | |
|  |  | |  |  |  | | --- | --- | --- | | **Bounding Box (E)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > extent [45] > EX\_Extent [334] > geographicElement [336] > EX\_GeographicExtent [339] > EX\_GeographicBoundingBox [343] > eastBoundLongitude [345] | **345** | | **Bounding Box (N)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > extent [45] > EX\_Extent [334] > geographicElement [336] > EX\_GeographicExtent [339] > EX\_GeographicBoundingBox [343] > northBoundLatitude [347] | **347** | | **Bounding Box (S)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > extent [45] > EX\_Extent [334] > geographicElement [336] > EX\_GeographicExtent [339] > EX\_GeographicBoundingBox [343] > southBoundLatitude [346] | **346** | | **Bounding Box (W)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > extent [45] > EX\_Extent [334] > geographicElement [336] > EX\_GeographicExtent [339] > EX\_GeographicBoundingBox [343] > westBoundLongitude [344] | **344** | |
| Code Changes | ANZLIC.cfg:   * <page class="CustomMetadataEditor.Pages.ResourceExtent, EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **24200**: Set ResourceExtent | |

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| --- | --- | --- |
| Point Of Contacts | | |
|  | No Changes | |  |  |  | | --- | --- | --- | | Electronic Mail Address | MD\_Metadata [1]>identificationInfo [15]>MD\_Identification [23]>MD\_DataIdentification [36]>pointOfContact [29]>CI\_ResponsibleParty [374]>contactInfo [378]>CI\_Contact [387]>address [389>CI\_Address [380]> electronicMailAddress [386] | 386 | | **Organisation Name** | MD\_Metadata [1] >identificationInfo [15] >MD\_Identification [23] >SV\_ServiceIdentification [47] >pointOfContact [29] >CI\_ResponsibleParty[374] >organisationName [376] | **376** | | Organisation Name | MD\_Metadata [1] >identificationInfo [15] >MD\_Identification [23] >SV\_ServiceIdentification [47] >pointOfContact [29] >CI\_ResponsibleParty[374] >organisationName [376] | 376 | | Phone | MD\_Metadata [1]>identificationInfo [15]>MD\_Identification [23]>MD\_DataIdentification [36]>pointOfContact [29]>CI\_ResponsibleParty [374]>contactInfo [378]>CI\_Contact [387]>phone [388]>CI\_Telephone [407]> voice [408] | 408 | | **Position Name** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] >MD\_DataIdentification [36] > pointOfContact [29] > CI\_ResponsibleParty [374] > positionName [377] | **377** | | Position Name (title) | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] >MD\_DataIdentification [36] > pointOfContact [29] > CI\_ResponsibleParty [374] > positionName [377] | 377 | |
| Code Changes | ANZLIC.cfg:   * <page class="CustomMetadataEditor.Pages.ResourcePoc, EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **24300**: Set ResourcePoc | |

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| --- | --- | --- |
| Maintenace | | |
|  | No Changes | |  |  |  | | --- | --- | --- | | Date of Next Update | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > resourceMaintenance [30] > MD\_MaintenanceInformation [142] > DateOfNextUpdate[144] | 144 | | Maintenance and Update Frequency | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > resourceMaintenance [30] > MD\_MaintenanceInformation [142] > maintenanceAndUpdateFrequency [143] > MD\_MaintenanceFrequencyCode [B.5.18] | 143 | | Maintenance Update Scope | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > resourceMaintenance [30] > MD\_MaintenanceInformation [142] > UpdateScope[146] | 146 | |
| Code Changes | ANZLIC.cfg:   * <page class="CustomMetadataEditor.Pages.ResourcePoc, EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **24300**: Set ResourcePoc | |

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| --- | --- | --- |
| Constraints | | |
|  | Default Values | |  |  |  | | --- | --- | --- | | Access Constraints | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > resourceConstraints [35] > MD\_LegalConstraints [69] > otherConstraints [72] | 72 | | **Security Classification (eg Public)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > **resourceConstraints** [35] > MD\_SecurityConstraints [73] > classification [74] (code list) | **74** | | **Use Constraints (copyright)** | MD\_Metadata [1] > identificationInfo [15] >MD\_Identification [23] > MD\_DataIdentification [36] > resourceConstraints [35] > MD\_LegalConstraints [69] > useConstraints [71] > MD\_RestrictionCode [B.5.24]  MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > **resourceConstraints** [35] >MD\_LegalConstraints [69 ]> useLimitation [68 ] | **68** | | **Use Constraints (licence)** | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > MD\_DataIdentification [36] > **resourceConstraints** [35] >MD\_LegalConstraints [69 ]> useLimitation [68 ] | **68** | | Use Limitation (Access Constraints) | MD\_Metadata [1] > identificationInfo [15] > MD\_Identification [23] > resourceConstraints [35] > MD\_LegalConstraints [69] > accessConstraints [70] | 68 | |
| Code Changes | ANZLIC.cfg:   * <page class="CustomMetadataEditor.Pages.Constraints, EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **24500**: Set ResourcePoc   MD\_RestrictionCode.xaml   * EsriAU Comment **24510**: Add Textbox to manage Language Default Values   MD\_RestrictionCode.xaml.cs   * EsriAU Comment **24520**: Add Reference to ANZLIC Defaults Class; using CustomMetadataEditor.ANZLIC\_Defaultss; * EsriAU Comment **24521**: Create a new Defaults object; DefaultValues oDefault = new DefaultValues(); * EsriAU Comment **24522**: Intialise the Defaults; oDefault.Initialize(); * EsriAU Comment **24523**: Add Textbox Load event to manage Restriction Code Default Values   MD\_ClassificationCode.xaml   * EsriAU Comment 24530: Add Textbox to manage Language Default Values Visibility="Collapsed"   MD\_ClassificatiobCode.xml.cs   * EsriAU Comment 24531: Add Reference to ANZLIC Defaults Class; * EsriAU Comment 24521: Create a new Defaults object; * EsriAU Comment 24533: Add Textbox Load event to manage Language Default Values | |

|  |  |  |
| --- | --- | --- |
| Spatial Reference | | |
|  |  | |  |  |  | | --- | --- | --- | | Reference System Identifier (coord ref system code) | MD\_Metadata [1] > referenceSystemInfo [13] > MD\_ReferenceSystem [186] > referenceSystemIdentifier [187] > RS\_Identifier [208] > code [207] | 187 | |

|  |  |  |
| --- | --- | --- |
| Spatial Representation Information | | |
|  | No Changes | |  |  |  | | --- | --- | --- | | Spatial Representation Type (code list eg vector) | MD\_Metadata[1] > identificationInfo[15] > MD\_Identification[23] > MD\_DataIdentification[36] > spatialRepresentationType [37] > MD\_SpatialRepresentationType [B.5.26] | 37 | |

|  |  |  |
| --- | --- | --- |
| Content Information | | |
|  | Remove | No Validation |

|  |  |  |
| --- | --- | --- |
| Data Quality | | |
|  |  | |  |  |  | | --- | --- | --- | | Completeness | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] > DQ\_Element [99] > DQ\_Completeness [108] > DQ\_CompletenessOmission [110] > result [107] > DQ\_Result [128] > DQ\_ConformanceResult [129] > explanation [131] | 108 | | Data Quality Absolute External Positional Accuracy | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] > DQ\_Element [99] > DQ\_PositionalAccuracy [116] > DQ\_AbsoluteExternalPositionalAccuracy [117] > result [107] > DQ\_Result [128] > DQ\_ConformanceResult [129] > explanation [131] | 117 | | Data Quality Completeness Commission | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] > DQ\_Element [99] > DQ\_LogicalConsistency [111] > DQ\_ConceptualConsistency [112] > result [107] > DQ\_Result [128] > DQ\_ConformanceResult [129] > explanation [131] | 109 | | Data Quality Completeness Omission | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] > DQ\_Element [99] > DQ\_ThematicAccuracy [124] > DQ\_NonQuantitativeAttributeAccuracy [126] > result [107] > DQ\_Result [128] > DQ\_ConformanceResult [129] > explanation [131] | 110 | | Data Quality Conceptual Consistency | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] > DQ\_Element [99]>DQ-LogicalConsistency[111]>DQ\_ConceptualConsistency[112] | 112 | | Data Quality Non Quantitative Attribute Accuracy | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] >DQ\_Element [99] >DQ\_ThematicAccuracy[124]> DQ\_NonQuantitativeAttributeAccuracy[126] | 126 | | Data Quality Quantitative Attribute Accuracy | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] >DQ\_Element [99] >DQ\_ThematicAccuracy[124]> DQ\_QuantitativeAttributeAccuracy[127] | 127 | | Data Quality Topological Consistency | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] > DQ\_Element [99]>DQ-LogicalConsistency[111]>DQ\_TopologicalConsistency[115] | 115 | | Logical Consistency (Conceptual) | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] > DQ\_Element [99]>DQ-LogicalConsistency[111] - This is an abstract element - parent element | 111 | | Spatial Attribute Accuracy (Thematic) | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] >DQ\_Element [99] >DQ\_ThematicAccuracy[124]> - this is an abstract element - parent element | 124 | | Spatial Positional Accuracy (Absolute External Position) | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > report [80] > DQ\_Element [99]>DQ\_PositionalAccuracy[116]> - - this is an abstract element - parent element | 116 | |

|  |  |  |
| --- | --- | --- |
| Lineage | | |
|  |  | |  |  |  | | --- | --- | --- | | Lineage Statement | MD\_Metadata [1] > dataQualityInfo [18] > DQ\_DataQuality [78] > lineage [81] > LI\_Lineage [82] > processStep [84] > LI\_ProcessStep [86] > description [87] | 87 | |

|  |  |  |
| --- | --- | --- |
| Distribution Information | | |
|  |  | |  |  |  | | --- | --- | --- | | Distribution format name (Format or product name/s) | MD\_Metadata [1] > distributionInfo [17] > MD\_Distribution [270] > distributionFormat [271] > MD\_Format [284] > name [285] | 285 | | Distribution Service (Dist format name, eg QGIS) | MD\_Metadata [1] > distributionInfo [17] > MD\_Distribution [270] > distributionFormat [271] > MD\_Format [284] > name [285] | 285 | | Fees (Price, GST, AUD, ) | MD\_Metadata [1] > distributionInfo [17] > MD\_Distribution [270] > distributor [272] > MD\_Distributor [279] > distributionOrderProcess [281] > MD\_StandardOrderProcess [298] > fees [299] | 299 | | Order Turnaround | MD\_Metadata [1] > distributionInfo [17] > MD\_Distribution [270] > distributor [272] > MD\_Distributor [279] > distributionOrderProcess [281] > MD\_StandardOrderProcess [298] turnaround [302] | 302 | | Ordering Instructions | MD\_Metadata [1] > distributionInfo [17] > MD\_Distribution [270] > distributor [272] > MD\_Distributor [279] > distributionOrderProcess [281] > MD\_StandardOrderProcess [298] orderingInstructions [301] | 301 | | Organisation Name (Distributor organisation) | MD\_Metadata [1] > distributionInfo [17] > MD\_Distribution [270] > distributor [272] > MD\_Distributor [279] > distributorContact [280] > CI\_ResponsibleParty [374] > organisationName [376] | 376 | | Planned Available Date Time | MD\_Metadata [1] > distributionInfo [17] > MD\_Distribution [270] > distributor [272] > MD\_Distributor [279] > distributionOrderProcess [281] > MD\_StandardOrderProcess [298] > PlannedAvailableDateTime [300] | 300 | | Transfer Options (transfer size, Mb) | MD\_Metadata [1] > distributionInfo [17] > MD\_Distribution [270] > distributionFormat [273] > MD\_DigitalTransferOptions [274] > transferSize [276] | 276 | | URL (to QGIS) | MD\_Metadata [1] > distributionInfo [17] > MD\_Distribution [270] > transferOptions [273] > MD\_DigitalTransferOptions [274] > online [277] > CI\_OnlineResource [396] > linkage [397] | 397 | |
| Code Changes | ANZLIC.cfg:   * <page class="CustomMetadataEditor.Pages.DistributionInfo, EsriAu.ANZLIC.Metadata.Editor"> * EsriAU Comment **241100**: Set DistributionInfo   MD\_Format.xml   * EsriAU Comment **241101**: Data provider for DistributionFormat XML * EsriAU Comment **241102**: Create a dropdown list control ad assign it to the Data Provider and set selected value and text * EsriAU Comment **241103**: add Column to the grid for the dropdown list and change the textbox column number * EsriAU Comment **241104**: Add Loaded Event to Textbox to add Default Values   MD\_Format.xml.cs   * EsriAU Comment **241201**: Add Reference to ANZLIC Defaults Class; * EsriAU Comment **241202**: Create a new Defaults object; * EsriAU Comment **241203**: Initialise the Defaults object * EsriAU Comment **241204**: Add Textbox Load event to manage Format Default Values * EsriAU Comment 241205: Set XMLProvider for Distribution Format Code | |
| Fields | | |
|  | No Changes | No Validation |
| References | | |
|  | No Changes | No Validation |
| Geoprocessing History | | |
|  | No Changes | No Validation |

# Code Lists

Reference: ANZLIC pick lists and defaults.doc.

To increase stability and enforcing data quality users will select items from a predefined pick list

## Functional Specification:

The code list must be preconfigured and the user must select one item from the list

The administrator can customise the items in the pick list.

The user must be able to add items to the pick list.

The code list values are stored in a Esri Code List Style XML document and can be configured by each organisation to meet their needs.

## Theme keywords

We use the following ANZLIC list and cite the thesaurus

ANZLIC Search Words**,** Version 2.1**,** edition date 15-5-2008

#### Design

The form will be extended by adding a combo box to the form’s Theme Keyword element. The combo box will contain a list of values read from an xml document and the value will populate the ANZLIC Element.

#### Code list

Code list is configured in file called ANZLIC\_Codelists\_searchThemes.XML.

This file is deployed to C:\Program Files (x86)\ArcGIS\Desktop10.1\Metadata\ANZLIC\_CodeLists

The file is structured as shown in the following snippet

<codelists>

<codelist id="anzlic-theme">

<code value="">Empty</code>

<code value="AGRICULTURE">AGRICULTURE non-specific</code>

</codelist>

</codelists>

## Contacts (Metadata, Point of Contact, Distributor etc)

All contacts forms will have additional code lists for the Organisation Name, Position Name, elements.

#### Design

The forms will be extended to by adding a combo box to the form. The combo box will contain a list of values read from an xml document and the value will populate the ANZLIC element.

Pages affected by the changes are:

* Overview Citation Contacts;
* Metadata Contacts;
* Resource Point of Contacts.

The changes are made in the CI\_ResponsibleParty.xaml which is referenced by the previously mentioned Pages

#### Code list

A Sample list is be provided with the installation in XML document format and called: ANZLIC\_Codelists\_Organisations.xml and ANZLIC\_Codelists\_Positions.xml.

This files is deployed to C:\Program Files (x86)\ArcGIS\Desktop10.1\Metadata\ANZLIC\_CodeLists

Sample Values for Organisation:

* Geosciences
* Esri Australia

Sample Values for Position:

* Administrator
* GIS Administrator
* GIS Officer

## Distribution Formats

Distribution formats are found Resource -> Distribution Information -> Format Name

#### Design

The form will be extended by adding a combo box to the form’s distribution element. The combo box will contain a list of values read from an xml document and the value will populate the ANZLIC Element.

This files is deployed to C:\Program Files (x86)\ArcGIS\Desktop10.1\Metadata\ANZLIC\_CodeLists

#### Code list

A Sample list is be provided with the installation in XML document format and called:

ANZLIC\_Codelists\_Distribution.xml

<?xml version="1.0" encoding="utf-8" ?>

<codelists>

<codelist id="anzlic-DistributionFormat">

<code value="">Empty</code>

<code value="Geoscience">Geoscience</code>

<code value="File Geodatabase Feature Class">File Geodatabase Feature Class</code>

Access database (version just specified as 1)

ArcGIS file geodatabase version 9.3

ArcGIS file geodatabase version 10.0

ArcGIS layer package version 10.0

ArcGIS personal geodatabase 9.3

ArcGIS personal geodatabase 10.0

ArcGIS raster catalog (version just specified as 1)

ArcInfo export file (version just specified as 1)

ArcSDE export file (version just specified as 1)

ArcView shapefile (version just specified as 1)

BIL Image (version just specified as 1)

DWG 2004

DXF 2004

ECW (version just specified as 1)

ERS (version just specified as 1)

Erdas Imagine (version just specified as 1)

Excel spreadsheet (version just specified as 1)

GML 0

GML 3

GeoPDF (version just specified as 1)

JPEG (version just specified as 1)

KML (version just specified as 1)

MIF / MID (version just specified as 1)

MapInfo TAB (version just specified as 1)

TIFF (version just specified as 1)

Text file (version just specified as 1)

VRML (version just specified as 1)

## Default Values

This section discusses elements that need default values.

Due to the nature of the customisation each element has to be dealt with separately therefore adding element to the XML document does not automatically mean a default value will be set.

Agencies generally have a single security, copyright and licence statement that covers the majority of the data.

The system must be able to set default values for:

* Locale (language, Local)
* Security Classification
* Use Constraints (copyright)
* Use Constraints (Licence)
* Quality (Completeness, Logical Consistency, Spatial Attribute Accuracy, Spatial Positional Accuracy)

Defaulte file is called ANZLIC\_Defaults.xml and is deployed to C:\Program Files (x86)\ArcGIS\Desktop10.1\bin\ANZLIC\_Settings

The ANZLIC\_Settings.xml requires a Defaults setting to tell the application where to find Default settings.

<Defaults Value="C:\Program Files (x86)\ArcGIS\Desktop10.1\bin\ANZLIC\_Settings\ANZLIC\_Defaults.xml"></Defaults>

### Locality

**Location:**

Locale is set in Overview-> Locales -> Locale

**ANZLIC Element:** *MD\_Metadata\_language, MD\_Metadata\_locale*

***Language***

Update the *MD\_Metadata\_language* Value Tag in the ANZLIC\_Defaults.xml file for Language

Value tag options:

* Aus for Australian languages
* eng for ENGLISH

**XML:**

<Element>

<Name>MD\_Metadata\_language</Name>

<Value>aus</Value>

<Interface>Overview|Locales|Locale </Interface>

<Comments>aus Australian languages|eng ENGLISH </Comments>

</Element>

***Country***

Update the *MD\_Metadata\_locale* Value Tag in the ANZLIC\_Defaults.xml file for Country

Value tag options:

* US for UNITED STATES
* AU for AUSTRALIA
* NZ for NEW ZEALAND

**XML:**

<Element>

<Name>MD\_Metadata\_locale</Name>

<Value>AU</Value>

<Interface>Overview|Locales|Locale </Interface>

<Comments>AU AUSTRALIA|NZ NEW ZEALAND | US UNITED STATES</Comments>

</Element>

### Security Classification

**Location:**

Security Classification is set in Resource->Constraints -> Security constraints -> Classification

**ANZLIC Element:** *MD\_ClassificationCode*

Update the *MD\_ClassificationCode* Value Tag in the ANZLIC\_Defaults.xml file

Value tag options:

* 000 to set to Empty
* 001 to set to Unclassified
* 002 to set to Restricted
* 003 to set to Confidential
* 004 to set to Secret
* 005 to set to Top Secret

**XML:**

<Element>

<Name>MD\_ClassificationCode</Name>

<Value>002</Value>

<Interface>MetaData|Constraints|Security Constraints|Classification</Interface>

<Comments>"" Empty|001 Unclassified|002 Restricted|003 Confidential|004 Secret|005 Top Secret</Comments>

</Element>

### Use Constraints (Copyright and Licence)

**Location:**

Use Constraints are set in Metadata->Constraints -> Legal Constraints- >Access Constraints/Use Constraints

**ANZLIC Element:** *MD\_RestrictionCode* used for both Access Constraints and Use Constraints

Update the *MD\_RestrictionCode* Value Tag in the ANZLIC\_Defaults.xml file

Value tag options:

* 001 copyright
* 002 patent
* 003 patentPending
* 004 trademark
* 005 license
* 006 intellectualPropertyRights
* 007 restricted
* 008 otherRestrictions

(Values taken from ISO 19115)

**XML:**

<Element>

<Name>MD\_RestrictionCode</Name>

<Value>002</Value>

<Interface>MetaData|Constraints|Legal Constraints|Access Constraints/Use Constraints</Interface>

<Comments>001 copyright|002 patent|003 patentPending|004 trademark|005 license|006 intellectualPropertyRights|007 restricted|008 otherRestrictions</Comments>

</Element>

# ArcCatalog Tools

## Validate Tool

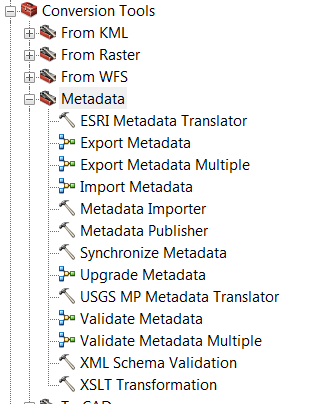
### Summary

Exports metadata to a standard metadata format then validates the exported file.

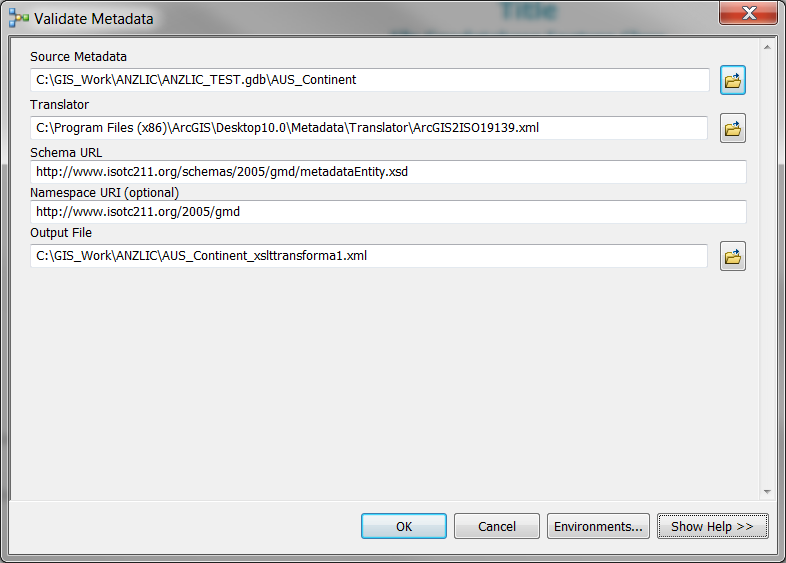
ArcGIS metadata can't be directly validated against a metadata standard's XML schema. This tool validates ArcGIS metadata by first exporting it to an XML file that is formatted to follow a metadata standard's XML schema using [Export Metadata](ms-its:C:\Program%20Files%20(x86)\ArcGIS\Desktop10.0\help\conversion_toolbox.chm::/00120000000t000000.htm), then validating the exported file using [XML Schema Validation](ms-its:C:\Program%20Files%20(x86)\ArcGIS\Desktop10.0\help\conversion_toolbox.chm::/001200000016000000.htm). Only use this tool to validate ArcGIS metadata, not a stand-alone XML file that is already formatted correctly for a metadata standard's XML format.

### Location

The Metadata tools are found in the ArcGIS Toolbox -> Conversion Tools -> Metadata



#### Tool Settings for ANZLIC



‑: Metadata Validate Tool

Source Metadata: <Feature Class>

**Translator:**

C:\Program Files (x86)\ArcGIS\Desktop10.0\Metadata\Translator\ANZLIC\_ISO2ISO19139.xml

**Schema URL:**

http://www.isotc211.org/2005/gmd/metadataEntity.xsd

**Namespace URI**:

http://www.isotc211.org/2005/gmd/

**Output File:**

<File Name>

Schema source: <http://asdd.ga.gov.au/asdd/profileinfo/>

* <http://www.isotc211.org/2005/gmx/>
* **http://www.isotc211.org/2005/gmd/**
* http://www.isotc211.org/2005/gmd/metadataEntity.xsd

### Syntax

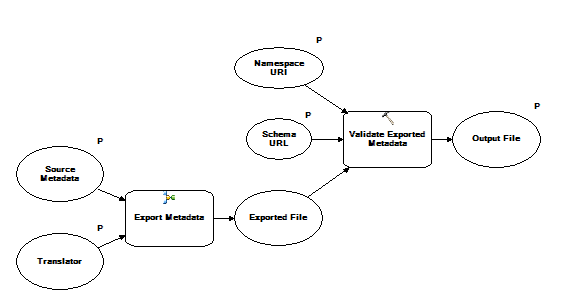
ValidateMetadata\_conversion (Source\_Metadata, Translator, Schema\_URL, {Namespace\_URI}, {Output\_File})

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Explanation** | **Data Type** |
| Source\_Metadata | The item whose metadata will be validated or a stand-alone XML file that will be validated. | Data Element; Layer |
| Translator | An XML file that defines the conversion that will be performed.  The translator files provided with ArcGIS Desktop can be found in the <ArcGIS Installation Location>\Metadata\Translator folder. The following conversions are supported:  ArcGIS to FGDC (ARCGIS2FGDC.xml)  ArcGIS to ISO 19139 (ARCGIS2ISO19139.xml)  FGDC to ArcGIS (FGDC2ESRI\_ISO.xml)  FGDC to ISO 19139 (FGDC2ISO19139.xml)  ISO 19139 to ArcGIS (ISO19139\_2ESRI\_ISO.xml)  ArcGIS or ESRI-ISO to ISO 19139 (ESRI\_ISO2ISO19139.xml) | File |
| Schema\_URL | The XML Schema or XML DTD that describes the structure and content of a valid XML document. | String |
| Namespace\_URI  (Optional) | The XML namespace that will be validated for an XML Schema, if appropriate, or the root element of the document for an XML DTD.  If this value is inappropriate for the XML Schema being used, provide the pound sign (#) instead of a namespace URI. | String |
| Output\_File  (Optional) | A stand-alone XML file that will be created containing the converted metadata. | File |

### 

### Model

#### Model diagram



‑: Validate Metadata Tool Model

#### Function Calls

1. **ValidateMetadata**

* C:\GIS\_Work\\_ANZLIC\ANZLIC\_TEST.gdb\AUS\_Continent "C:\Program Files (x86)\ArcGIS\Desktop10.0\Metadata\Translator\ANZLIC\_ISO2ISO19139.xml" http://www.isotc211.org/2005/gmd/metadataEntity.xsd http://www.isotc211.org/2005/gmd/ C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma1.xml
  1. **ExportMetadata** C:\GIS\_Work\\_ANZLIC\ANZLIC\_TEST.gdb\AUS\_Continent "C:\Program Files (x86)\ArcGIS\Desktop10.0\Metadata\Translator\ANZLIC\_ISO2ISO19139.xml" C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma1.xml
     1. **SynchronizeMetadata** C:\GIS\_Work\\_ANZLIC\ANZLIC\_TEST.gdb\AUS\_Continent ALWAYS
     2. **CalculateValue**
* GetInstalledFile() "def GetInstalledFile():\n import arcpy\n installDir = arcpy.GetInstallInfo("desktop")["InstallDir"]\n xsltPath = "Metadata/Stylesheets/gpTools/prep metadata for export.xslt"\n filePath = installDir + xsltPath\n return filePath\n" File
  + 1. **XSLTransform** C:\GIS\_Work\\_ANZLIC\ANZLIC\_TEST.gdb\AUS\_Continent "C:\Program Files(x86)\ArcGIS\Desktop10.0\Metadata/Stylesheets/gpTools/prep metadata for export.xslt" C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma.xml #
    2. **ESRITranslator** C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma.xml "C:\Program Files(x86)\ArcGIS\Desktop10.0\Metadata\Translator\ANZLIC\_ISO2ISO19139.xml" C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma1.xml C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma.log

1. **XMLSchemaValidator** C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma1.xml http://www.isotc211.org/2005/gmd/metadataEntity.xsd http://www.isotc211.org/2005/gmd/

## Export Metadata Tool

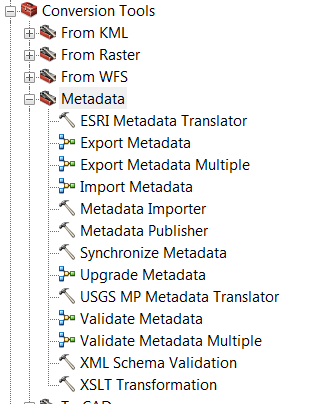
### Summary

Updates metadata to contain the most current properties of the ArcGIS item before processing the metadata and finally exporting it to an XML file that conforms to a standard metadata format.

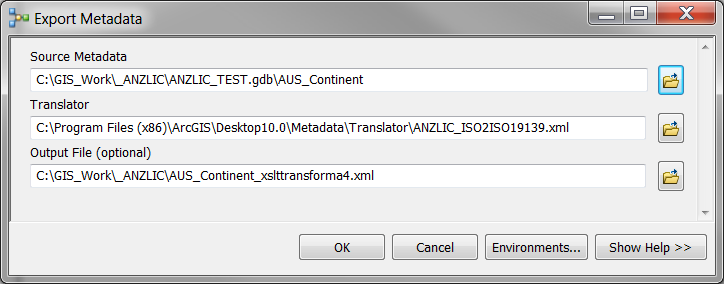
Initial processing is performed to produce the best results when exporting information to a standard metadata format. Afterwards, the metadata is exported using the [ESRI Metadata Translator](ms-its:C:\Program%20Files%20(x86)\ArcGIS\Desktop10.0\help\conversion_toolbox.chm::/00120000000s000000.htm).

### Location

The Metadata tools are found in the ArcGIS Toolbox -> Conversion Tools -> Metadata



### Settings for ANZLIC



‑: Export Metadata Tool

**Source Metadata:**

<Feature Class>

**Translator:**

C:\Program Files (x86)\ArcGIS\Desktop10.0\Metadata\Translator\ANZLICISO2ISO19139.xml

**Output File:**

<File Name>

### Syntax

ExportMetadata\_conversion (Source\_Metadata, Translator, {Output\_File})

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Explanation** | **Data Type** |
| Source\_Metadata | The item whose metadata will be converted or a stand-alone XML file that will be converted. | Data Element; Layer |
| Translator | An XML file that defines the conversion that will be performed.  The translator files provided with ArcGIS Desktop can be found in the <ArcGIS Installation Location>\Metadata\Translator folder. The following conversions are supported:   * ArcGIS to FGDC (ARCGIS2FGDC.xml) * ArcGIS to ISO 19139 (ARCGIS2ISO19139.xml) * FGDC to ArcGIS (FGDC2ESRI\_ISO.xml) * FGDC to ISO 19139 (FGDC2ISO19139.xml) * ISO 19139 to ArcGIS (ISO19139\_2ESRI\_ISO.xml) * ArcGIS or ESRI-ISO to ISO 19139 (ESRI\_ISO2ISO19139.xml) | File |
| Output\_File  (Optional) | A stand-alone XML file that will be created containing the converted metadata. | File |

### 

### Model

#### Model diagram

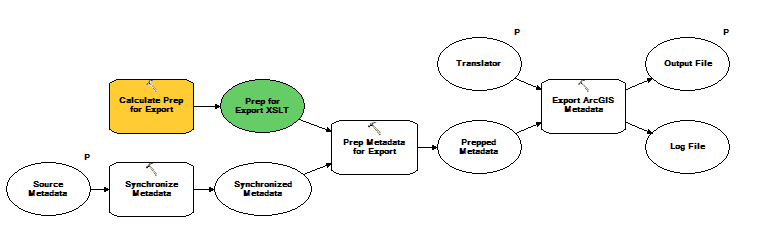


Figure : Export Metadata Model

#### Function Calls

* ExportMetadata C:\GIS\_Work\\_ANZLIC\ANZLIC\_TEST.gdb\AUS\_Continent "C:\Program Files (x86)\ArcGIS\Desktop10.0\Metadata\Translator\ANZLIC\_ISO2ISO19139.xml" C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma1.xml

1. **(Synchronize Metadata)**: ***SynchronizeMetadata*** C:\GIS\_Work\\_ANZLIC\ANZLIC\_TEST.gdb\AUS\_Continent ALWAYS
2. **(Calculate Prep for Export)**: ***CalculateValue*** GetInstalledFile() "def GetInstalledFile():\n import arcpy\n installDir = arcpy.GetInstallInfo("desktop")["InstallDir"]\n xsltPath = "Metadata/Stylesheets/gpTools/prep metadata for export.xslt"\n filePath = installDir + xsltPath\n return filePath\n" File

* Value = C:\Program Files (x86)\ArcGIS\Desktop10.0\Metadata/Stylesheets/gpTools/prep metadata for export.xslt

1. **(Prep Metadata for Export)**: ***XSLTransform*** C:\GIS\_Work\\_ANZLIC\ANZLIC\_TEST.gdb\AUS\_Continent "C:\Program Files (x86)\ArcGIS\Desktop10.0\Metadata/Stylesheets/gpTools/prep metadata for export.xslt" C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma.xml #
2. **(Export ArcGIS Metadata)**: ***ESRITranslator*** C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma.xml "C:\Program Files (x86)\ArcGIS\Desktop10.0\Metadata\Translator\ANZLIC\_ISO2ISO19139.xml" C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma.xml C:\GIS\_Work\\_ANZLIC\AUS\_Continent\_xslttransforma.log
3. **Starting validation**: file:///C:/Program%20Files%20(x86)/ArcGIS/Desktop10.0/Metadata/Translator/Rules/ISO19139\_min\_schema.txt
4. **Starting validation**: file:///C:/Program%20Files%20(x86)/ArcGIS/Desktop10.0/Metadata/Translator/Rules/ESRI-ISO\_schema.txt

## Esri Metadata Translator tool

### Summary

Uses the ArcGIS metadata translation engine or an XSLT transformation to export metadata content from ArcGIS to a stand-alone metadata XML file. The exported metadata will be formatted to satisfy the metadata standard associated with the specified translation.

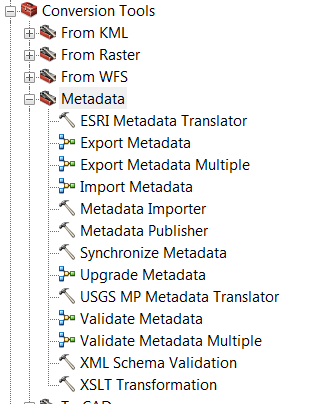
Metadata for items in ArcGIS is stored in the ArcGIS metadata format. Use the ArcGIS to translations to export ArcGIS metadata to another metadata XML format. For example, do this to share information outside of ArcGIS by publishing it to a metadata catalog. Different metadata catalogs accept information in different XML formats. ArcGIS metadata can be exported to different formats if you must publish your information to metadata catalogs with different requirements.

When using ISO 19139 translation, the exported metadata will be formatted following the rules defined in ISO standard 19139, Geographic information — Metadata — XML schema implementation, and it’s associated XML Schemas. The same translation is used to export metadata according to an ISO metadata profile. The translation accounts for the metadata style selected in ArcGIS.

The ArcGIS translations convert other metadata XML formats to the ArcGIS metadata format. This is an important step in the process of importing metadata that exists in another format to an ArcGIS item; however, several additional steps are also required to achieve the best results. Use the Import Metadata tool with the appropriate translation to complete this task instead.

### Tool Location

The Metadata tools are found in the ArcGIS Toolbox -> Conversion Tools -> Metadata



#### Settings for ANZLIC

### Syntax

ESRITranslator\_conversion (source, translator, {output}, {logfile})

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Explanation** | **Data Type** |
| source | The item whose metadata will be converted or a stand-alone XML file that will be converted. | Data Element; Layer |
| translator | An XML file that defines the conversion that will be performed.  The translator files provided with ArcGIS Desktop can be found in the <ArcGIS Installation Location>\Metadata\Translator folder. The following conversions are supported:  ArcGIS to FGDC (ARCGIS2FGDC.xml)  ArcGIS to ISO 19139 (ARCGIS2ISO19139.xml)  FGDC to ArcGIS (FGDC2ESRI\_ISO.xml)  FGDC to ISO 19139 (FGDC2ISO19139.xml)  ISO 19139 to ArcGIS (ISO19139\_2ESRI\_ISO.xml)  ArcGIS or ESRI-ISO to ISO 19139 (ESRI\_ISO2ISO19139.xml)  A translator file must be specified. This tool does not have a default value for this parameter. | File |
| output  (Optional) | A stand-alone XML file that will be created containing the converted metadata.  To check for problems in the metadata using the ESRI Metadata Translator's translation engine and not produce an output XML file, provide the pound sign (#) instead of a file name. | File |
| logfile  (Optional) | A text file that will be created listing the warnings and errors that occurred during the conversion process.  To export metadata without producing a log file, provide the pound sign (#) instead of a file name.  A log file will not be created when using the ArcGIS to FGDC translation even if a log file name is provided. | File |

**Known issue:**

Each Translator, except the ArcGIS to FGDC and ArcGIS to ISO 19139 translators, references files containing validation rules. The message “*Starting validation*” indicates validation is beginning using the rules in the specified file. The validation rules defined in *ISO19139\_min\_schema.txt* cover the *minimum* mandatory requirements for ISO metadata, and the rules defined in *ESRI-ISO\_schema.txt* address the remaining metadata elements.

These rules identify if mandatory elements have been provided, if conditional elements are required and provided, and if the value provided in a metadata element is of the correct data type. Validation rules can't detect cardinality issues such as only one purpose element is allowed but two have been provided. Any validation issues found are reported as warnings in the tool's messages.

**For example**, a metadata contact is required in ISO metadata. The following warning indicates complete metadata contact information hasn't been provided: ***Validation failed: em:Metadata($a) --> em:contact($a, $b), em:CI\_ResponsibleParty($b)***. That is, a metadata contact hasn't been provided at all, or the contact information provided doesn't follow the rules for contacts defined in the CI\_ResponsibleParty information class in the ISO 19115 metadata standard.

After validation the translator generates the output metadata XML file. Cardinality rules are tested at this time. If more than the expected number of elements exists, none of them will be written to the output metadata XML file. Some validation issues prevent the translator from generating valid output XML and will also be reported as warnings in this phase.

**For example**, if a valid metadata contact hasn't been provided, this information can't be included in the output: ***Error [InvalidForSome]: <MD\_Metadata> for-some clause: em:contact(v:Metadata, v:Object) <contact>***; that is, one or more contact elements could not be added to the MD\_Metadata element in the output XML file. This message is a warning even though it begins with the word error.

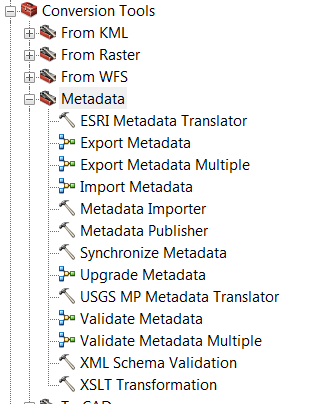
## Import tool

### Summary

This tool was not modified for ANZLIC.

### Tool Location

The Metadata tools are found in the ArcGIS Toolbox -> Conversion Tools -> Metadata



# Appendix ANZLIC references

FAQs on the ANZLIC Metadata Profile

<http://www.linz.govt.nz/geospatial-office/about/projects-and-news/anzlic-metadata-profile/faq>

**Code List Source**

<http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml>