

## ICSM ePlan Review Manifest

**PROJECT DELIVERABLE**  
**UPDATED RELEASE**

### Document Information

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## DOCUMENT CONTROL

### Version History

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## ICSM ePlan Review Manifest

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## ICSM ePlan Review Manifest

### 1 PURPOSE

This document contains a list of ICSM ePlan review documents, XML Schemas and XML data developed by NSW Lands for the EPlan Project.

## 2 OVERVIEW

NSW Lands have recently conducted a review of the ICSM ePlan Model and Jurisdictional XML Schemas for capturing and representing Australian jurisdictional data with a LandXML document.

The ICSM ePlan Model and XML Schema Review for the EPlan Project was comprised of two phases:

- [Phase I – ICSM ePlan Model and Schema Review](#)

*The first phase was a preliminary review of the ICSM ePlan Model and Jurisdictional XML Schemas developed by Queensland's NRW. This document was initially released at the ICSM ePlan Working Group Meeting, held in Hobart, Tasmania, during May 2007.*

- [Phase II – ICSM ePlan Jurisdictional XML Schema Changes](#)

*The second phase extended on Phase I with a detailed review of the Jurisdictional XML Schemas, resulting in revised XML Schema definitions and a new approach for representing Surveyor Certificates using W3C XForms.*

The ICSM ePlan Review resulted in many documents, XML Schema and XML data files. The file paths and descriptions to these items are contained in the following sections.

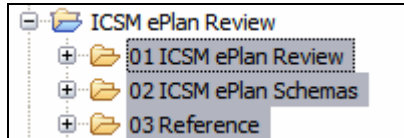


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### 3 PHASES

The top level folder structure for the ICSM ePlan Review is outlined below.

#### 3.1 FOLDER STRUCTURE



#### 3.2 FOLDER DESCRIPTIONS

Folder Path	Folder Name	Description
ICSM ePlan Review/	01 ICSM ePlan Review/	Contains Phase I documents.
As above.	02 ICSM ePlan Schemas	Contains Phase II XML Schemas and XML data files.
As above.	03 Reference	Contains reference documents.

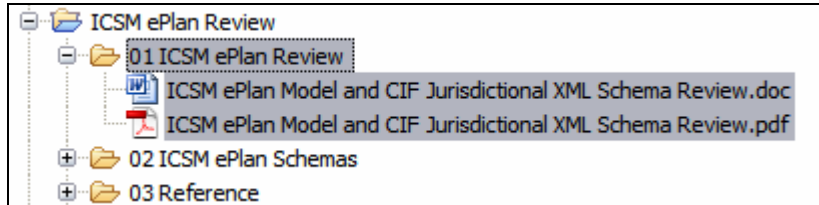
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## 4 PHASE I – ICSM EPLAN MODEL AND SCHEMA REVIEW

### 4.1 DOCUMENTS

#### 4.1.1 Folder and File Structure

The following folder structure shows the parent folder for the ICSM ePlan Review documents and XML files.



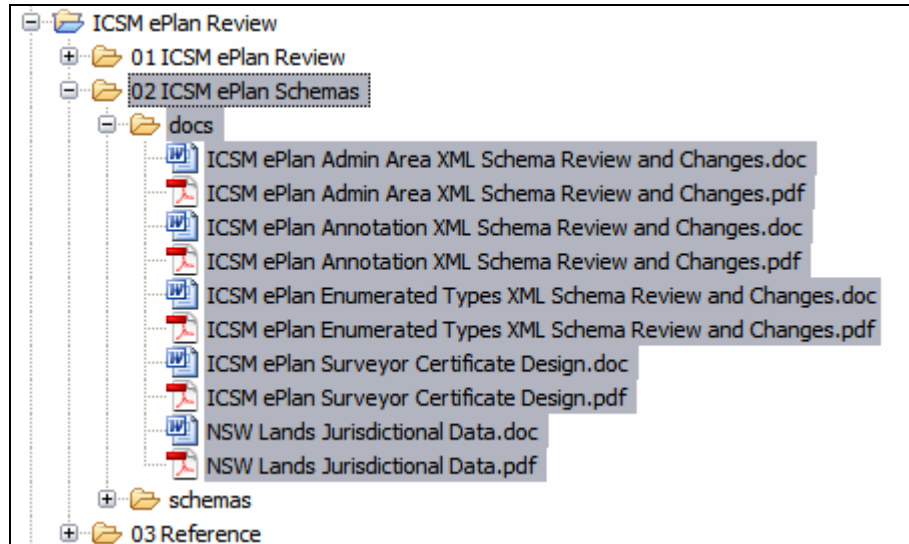
#### 4.1.2 Folder and File Descriptions

File Path	File Name	Description	Format
01 ICSM ePlan Review/	ICSM ePlan Model and CIF Jurisdictional XML Schema Review.doc	Contains a review of the ICSM ePlan Model and Jurisdictional XML Schemas.	MS Word
As above.	ICSM ePlan Model and CIF Jurisdictional XML Schema Review.pdf	As above.	Adobe PDF

## 5 PHASE II – ICSM EPLAN JURISDICTIONAL XML SCHEMA CHANGES

### 5.1 DOCUMENTS

#### 5.1.1 Folder and File Structure



#### 5.1.2 Folder and File Descriptions

Folder Path	File Name	Description	Format
02 ICSM ePlan Schemas/docs/	ICSM ePlan Enumerated Types XML Schema Review and Changes.doc	Contains a review of the ICSM ePlan Enumerated Types XML Schema and lists the revised schema.	MS Word
As above.	ICSM ePlan Enumerated Types XML Schema Review and Changes.pdf	As above.	Adobe PDF
As above.	ICSM ePlan Admin Area XML Schema Review and	Contains a review of the ICSM ePlan Admin Area XML Schema and lists	MS Word

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	<b>Changes.doc</b>	the revised schema.	
As above.	<b>ICSM ePlan Admin Area XML Schema Review and Changes.pdf</b>	As above.	Adobe PDF
As above.	<b>ICSM ePlan Annotation XML Schema Review and Changes.doc</b>	Contains a review of the ICSM ePlan Survey Plan Annotation XML Schema and lists the revised schema.	MS Word
As above.	<b>ICSM ePlan Annotation XML Schema Review and Changes.pdf</b>	As above.	Adobe PDF
As above.	<b>ICSM ePlan Surveyor Certificate Design.doc</b>	Contains the design of the ICSM ePlan Surveyor Certificate.	MS Word
As above.	<b>ICSM ePlan Surveyor Certificate Design.pdf</b>	As above.	Adobe PDF
As above.	<b>NSW Lands Jurisdictional Data.doc</b>	Contains tables of NSW specific jurisdictional data for enumerated types, administrative areas, survey plan	MS Word

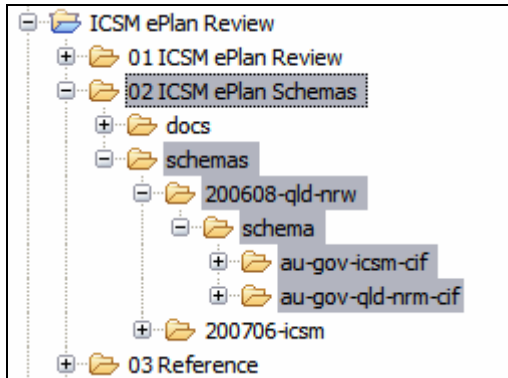
### ICSM ePlan Review Manifest

		annotations and survey certificates.	
As above.	<b>NSW Lands Jurisdictional Data.pdf</b>	As above.	Adobe PDF

## 5.2 QUEENSLAND NRW XML SCHEMAS

The Queensland NRW XML Schemas and XML data files are included for reference, as they form the basis of the ICSM ePlan Review.

### 5.2.1 Folder and File Structure



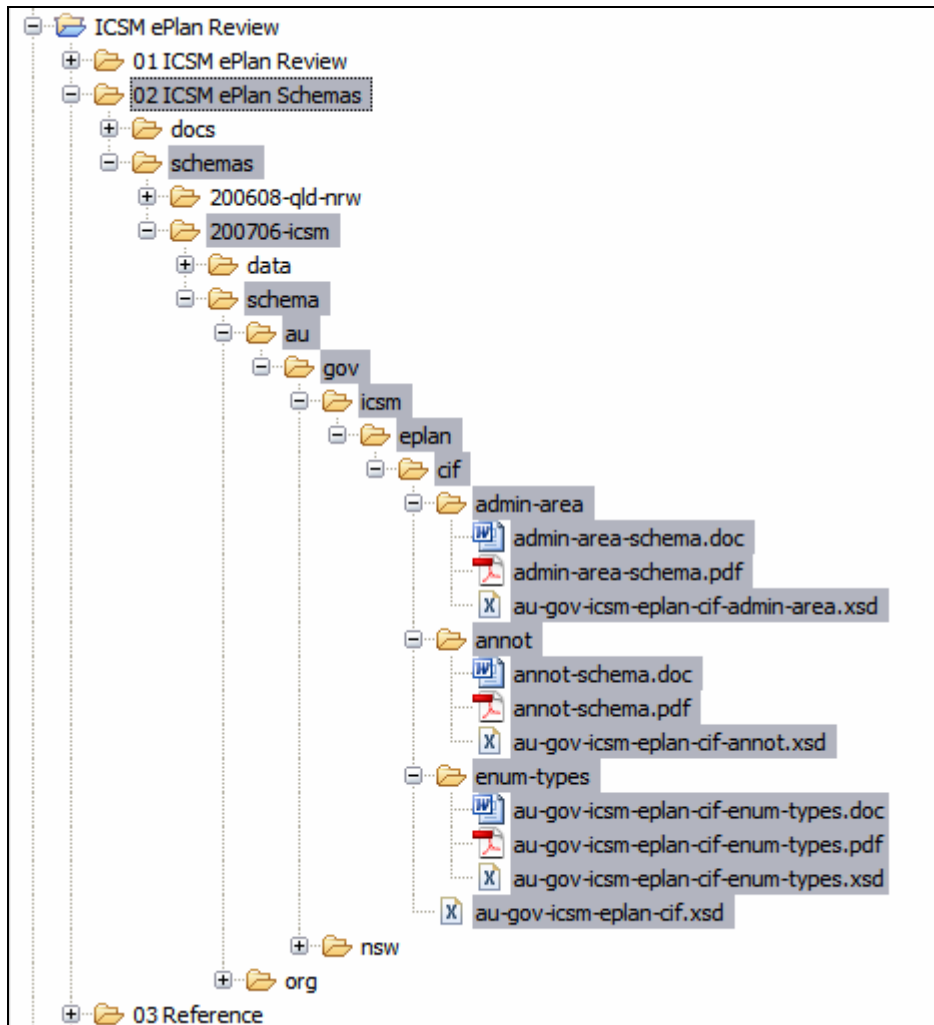
### 5.2.2 Folder and File Descriptions

For more details, see Gray & Chowdhury (2006) and Cumerford (2004).

### 5.3 ICSM EPLAN XML SCHEMAS

The ICSM ePlan XML Schemas are intended to represent the jurisdictional specific data for the LandXML XML Schema.

#### 5.3.1 Folder and File Structure



#### 5.3.2 Folder and File Descriptions

Folder Path	Folder/File Name	Description
02 ICSM ePlan Schemas/ schemas/ 200706-icsm/ schema/ au/gov/icsm/eplan/cif/ admin-area/	au-gov-icsm- eplan-cif- admin-area.doc	Revised ICSM ePlan Admin Area XML Schema documentation. Generated by XmlSpy.

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As above.	<a href="#">au-gov-icsm-eplan-cif-admin-area.pdf</a>	As above.
As above.	<a href="#">au-gov-icsm-eplan-cif-admin-area.xsd</a>	Revised ICSM ePlan Admin Area XML Schema.
<a href="#">02 ICSM ePlan Schemas/schemas/200706-icsm/schema/au/gov/icsm/eplan/cif/annot/</a>	<a href="#">au-gov-icsm-eplan-cif-annot.doc</a>	Revised ICSM ePlan Admin Area XML Schema documentation. Generated by XmlSpy.
As above.	<a href="#">au-gov-icsm-eplan-cif-annot.pdf</a>	As above.
As above.	<a href="#">au-gov-icsm-eplan-cif-annot.xsd</a>	Revised ICSM ePlan Plan Annotation XML Schema.
<a href="#">02 ICSM ePlan Schemas/schemas/200706-icsm/schema/au/gov/icsm/eplan/cif/enum-types/</a>	<a href="#">au-gov-icsm-eplan-cif-enum-types.doc</a>	Revised ICSM ePlan Enumerated Types XML Schema documentation. Generated by XmlSpy.
	<a href="#">au-gov-icsm-eplan-cif-enum-types.pdf</a>	As above.
As above.	<a href="#">au-gov-icsm-eplan-cif-enum-types.xsd</a>	Revised ICSM ePlan Enumerated Types XML Schema. This XML Schema must be copied and populated by a particular jurisdiction



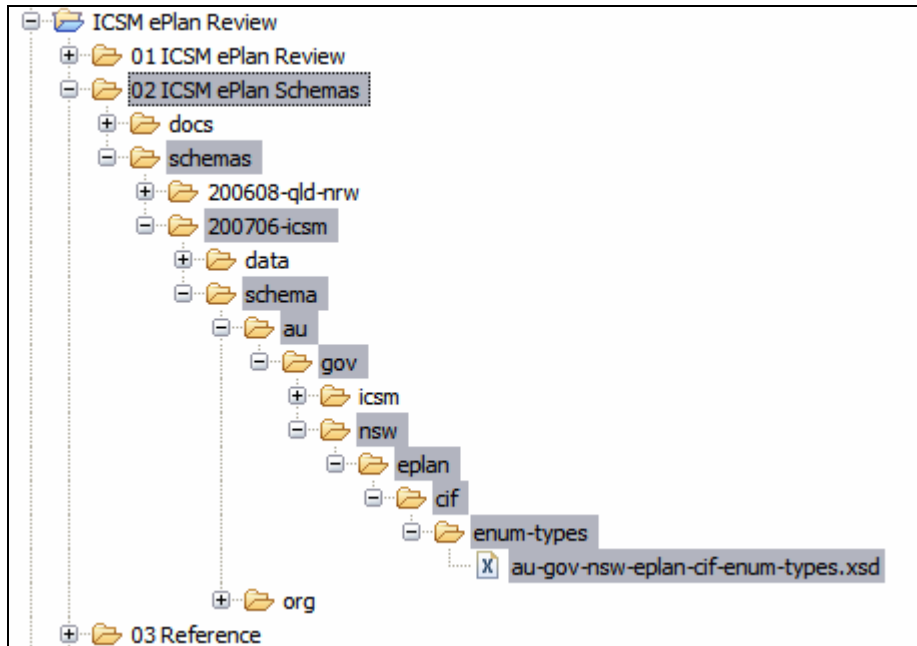
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		(eg. NSW, QLD).
02 ICSM ePlan Schemas/ schemas/ 200706-icsm/ schema/ au/gov/icsm/eplan/cif/	au-gov-icsm- eplan-cif.xsd	Sample parent XML Schema which includes other ICSM ePlan XML Schemas.

## 5.4 NSW LANDS ENUMERATED TYPES XML SCHEMA

The NSW Lands Enumerated Types XML Schema is an implementation of the ICSM ePlan Enumerated Types XML Schema. It contains enumerated values specific to NSW.

### 5.4.1 Folder and File Structure



### 5.4.2 Folder and File Descriptions

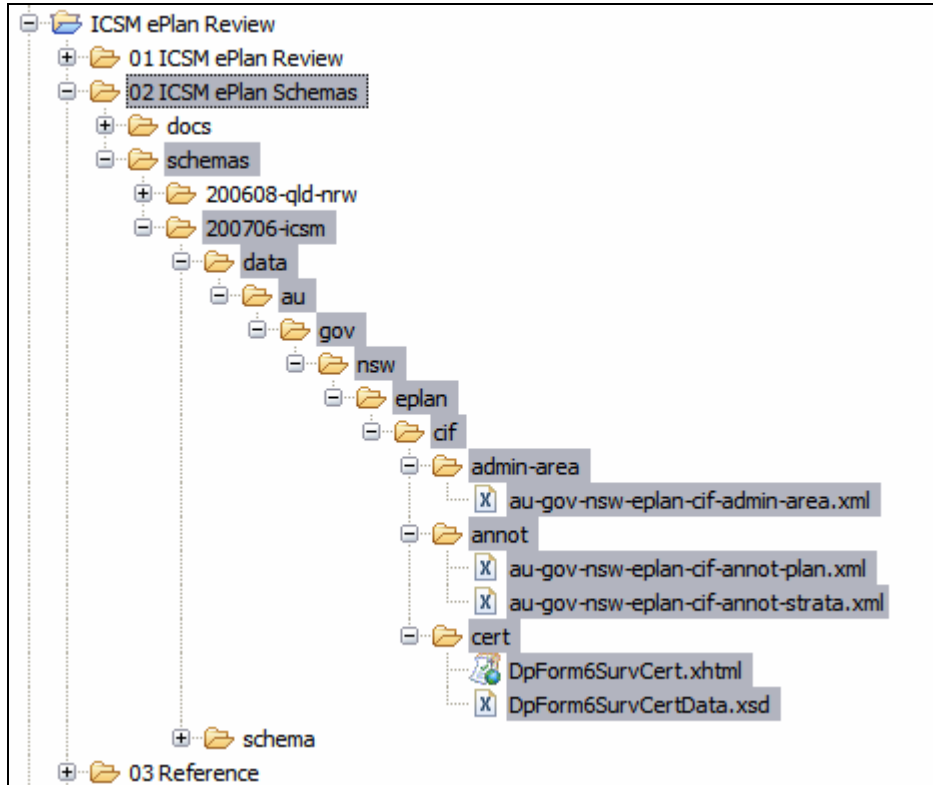
Folder Path	Folder/File Name	Description
02 ICSM ePlan Schemas/ schemas/ 200706-icsm/ schema/ au/gov/nsw/eplan/cif/	au-gov-nsw-eplan-cif-enum-types.xsd	NSW specific Enumerated Types XML Schema. This XML Schema was copied from the ICSM ePlan Enumerated Types XML Schema and populated with NSW jurisdictional data.

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5.5 NSW LANDS JURISDICTIONAL XML DATA

5.5.1 Folder and File Structure

The following folder structure shows the NSW Lands XML data files.



5.5.2 Folder and File Descriptions

Folder Path	Folder/File Name	Description
02 ICSM ePlan Schemas/ schemas/ 200706-icsm/ data/ au/gov/nsw/eplan/cif/ admin-area/	au-gov-nsw-eplan-cif-admin-area.xml	NSW specific admin area XML data.
02 ICSM ePlan Schemas/ schemas/ 200706-icsm/ data/ au/gov/nsw/eplan/cif/	au-gov-nsw-eplan-cif-annot-plan.xml	NSW specific plan annotation XML data.

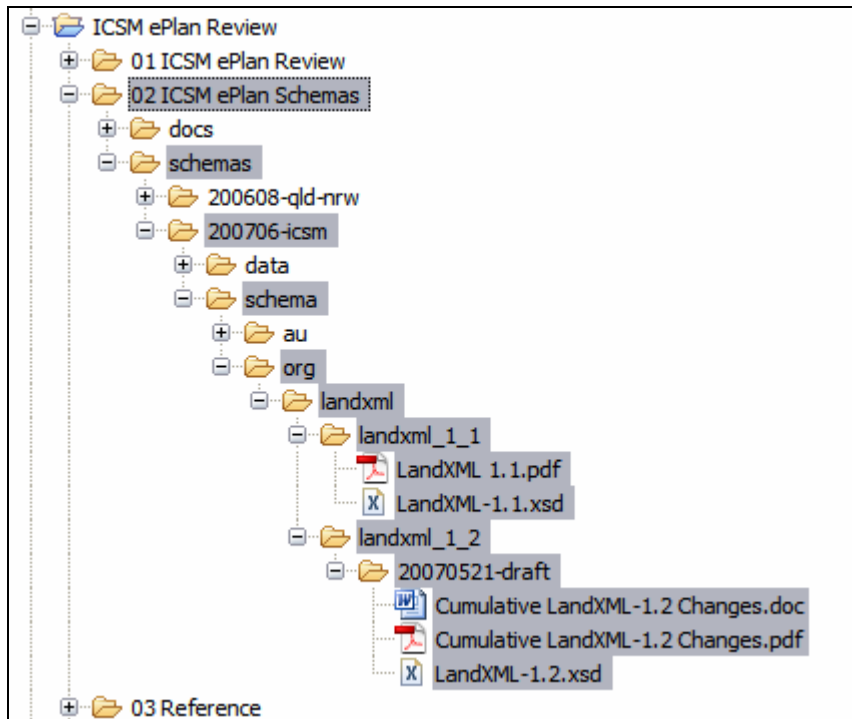
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<a href="#">annot/</a>		
As above	<a href="#">au-gov-nsw-eplan-cif-annot-strata.xml</a>	NSW specific strata annotation XML data.
<a href="#">02 ICSM ePlan Schemas/schemas/200706-icsm/data/au/gov/nsw/eplan/cif/cert/</a>	<a href="#">DpForm6SurvCert.xhtml</a>	NSW Deposited Plan Form 6 Surveyor Certificate XHTML + XForms definition.
As above.	<a href="#">DpForm6SurvCertData.xsd</a>	XML Schema for NSW Deposited Plan Form 6 Surveyor Certificate.

## 5.6 LANDXML XML SCHEMAS

### 5.6.1 Folder and File Structure

The following folder structure shows the LandXML XML Schema files. For more details, see Crews (2006a, 2006b).



### 5.6.2 Folder and File Descriptions

Folder Path	Folder/File Name	Description
200706-icsm/ schema/ org/landxml/ landxml_1_1/	LandXML-1.1.pdf	LandXML 1.1 XML Schema documentation. Generated by XmlSpy.
As above.	LandXML-1.1.xsd	LandXML 1.1 XML Schema. For more details, see Crews (2006a, 2006b).
200706-icsm/ schema/ org/landxml/	Cumulative LandXML-1.2 Changes.doc	Cumulative list of changes between LandXML version 1.1 and 1.2, as of 21 May

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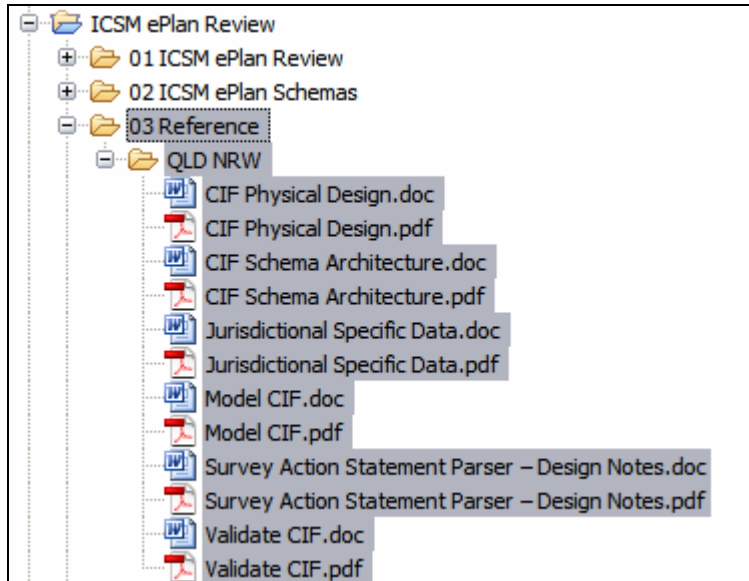
<a href="#">landxml_1_2/ 20070521- draft/</a>		2007.
As above.	<a href="#">Cumulative LandXML-1.2 Changes.pdf</a>	As above.
As above.	<a href="#">LandXML-1.2.xsd</a>	Draft edition of LandXML 1.2 XML Schema. For more details, see Crews (2006a, 2006b).

## 6 REFERENCE DOCUMENTS

### 6.1 QUEENSLAND NRW

A range of Queensland NRW documents were referenced in the ICSM ePlan Review documents during Phases I & II (above). The key QLD NRW documents are listed below.

#### 6.1.1 Folder and File Structure



#### 6.1.2 Folder and File Descriptions

File Path	File Name	Description	Format
03 Reference/ QLD NRW/	CIF Physical Design.doc	Describes the physical requirements for the Cadastral Information File (CIF).	MS Word
As above.	CIF Physical Design.pdf	As above.	Adobe PDF
As above.	CIF Schema Architecture.doc	Describes the CIF Schema Architecture.	MS Word

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As above.	<b>CIF Schema Architecture.pdf</b>	As above.	Adobe PDF
As above.	<b>Jurisdictional Specific Data.doc</b>	Describes the method of embedding jurisdictional specific lists within the LandXML 1.1 schema.	MS Word
As above.	<b>Jurisdictional Specific Data.pdf</b>	As above.	Adobe PDF
As above.	<b>Model CIF.doc</b>	Describes the physical layout of a CIF file using the LandXML 1.1 XML Schema.	MS Word
As above.	<b>Model CIF.pdf</b>	As above.	Adobe PDF
As above.	<b>Survey Action Statement Parser – Design Notes.doc</b>	Contains design notes relating to the design of a component that parses the action statement text traditionally found on the face of a paper plan.	MS Word
As above.	<b>Survey Action Statement Parser</b>	As above.	Adobe PDF



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	<b>- Design Notes.pdf</b>		
As above.	<b>Validate CIF.doc</b>	Describes the validation process for CIF data.	MS Word
As above.	<b>Validate CIF.pdf</b>	As above.	Adobe PDF

## 7 REFERENCES

**NOTES:** *These references are defined according to the Harvard Referencing Standard. For more details, see [http://en.wikipedia.org/wiki/Harvard\\_referencing](http://en.wikipedia.org/wiki/Harvard_referencing) and <http://library.curtin.edu.au/referencing/harvard.pdf>*

*While all references listed below were used in the preparation of this review document, not all references are listed inline.*

Crews, N. (2006a) LandXML.

<http://www.landxml.org>

Crews, N. (2006b) LandXML 1.1 XML Schema.

<http://www.landxml.org/schema/LandXML-1.1/LandXML-1.1.xsd>

Cumerford, N. (2005) Model CIF. Survey Information Processing Project. Queensland Department of Natural Resources and Water, Australia.

Cumerford, N. (2006) Jurisdictional Data. Survey Information Processing Project. Queensland Department of Natural Resources and Water, Australia.

Gray, N. & L. Chowdhury (2006) CIF Schema Architecture. Survey Information Processing Project. Queensland Department of Natural Resources, Mines and Water, Australia