



Department of Lands

*Land Administration & Management
Property & Spatial Information*

ICSM ePlan Review Manifest

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Author:	Tim Telčík tim.telcik@ajilon.com.au
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Distribution List

NAME	POSITION / TITLE	COMPANY / GROUP	VERSION
Barry Douse barry.douse@lands.nsw.gov.au	Business Sponsor	NSW Lands	
Gail Swan gail.swan@lands.nsw.gov.au	Program Manager	NSW Lands	
Mark Deal mark.deal@lands.nsw.gov.au	Project Manager	NSW Lands	
Shem Semple shem.semple@lands.nsw.gov.au	Project Manager	NSW Lands	
Pedro Harris pedro.harris@lands.nsw.gov.au	Chief Information Technology Officer	NSW Lands	
Nevil Cumerford nevil.cumerford@nrw.qld.gov.au	ePlan Working Group Chairman, EARL Project Leader	QLD NRW	
Lincoln Chowdhury Lincoln.Chowdhury@nrw.qld.gov.au	Consultant	QLD NRW	
Geoff Howard geoff.howard@ajilon.com.au	Ajilon Consulting General Manager	Ajilon	
Nolan Keenan Nolan.keenan@ajilon.com.au	Ajilon Consulting Project Manager	Ajilon	

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DOCUMENT APPROVAL

Business Sponsor Barry Douse / /
Project Sponsor / /
Name Signature Date

Program Manager Gail Swan / /
Name Signature Date

Project Manager Shem Semple / /
Name Signature Date

Project Manager Mark Deal / /
Name Signature Date

Delivery Assurance Geoff Howard / /
Name Signature Date

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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.

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in this document was correct at
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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.

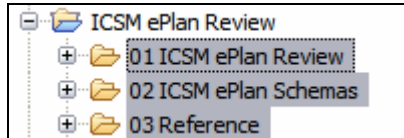
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3 PHASES

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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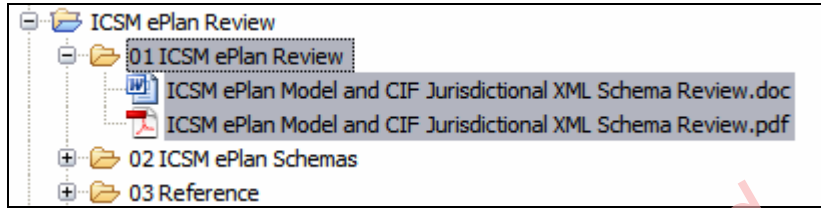
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4 PHASE I – ICSM EPLAN MODEL AND SCHEMA REVIEW

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.



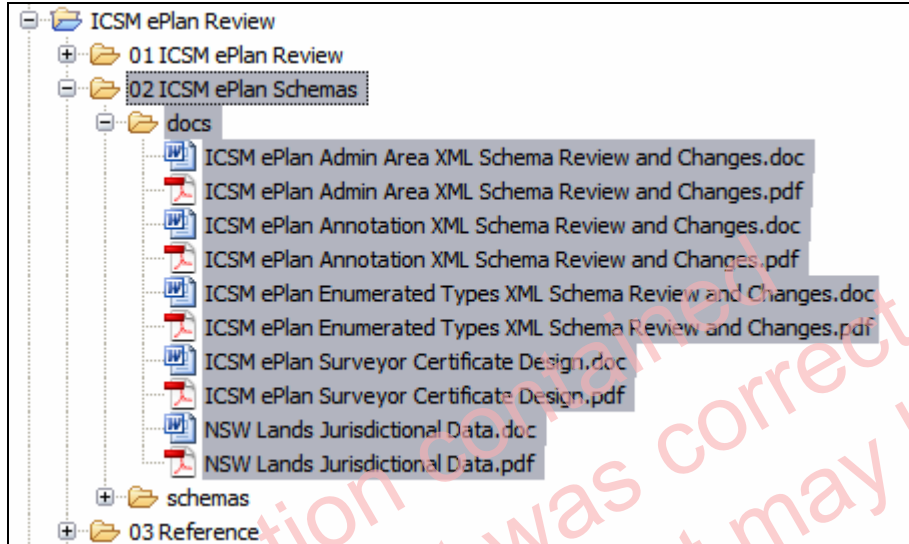
4.1.2 Folder and File Descriptions

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

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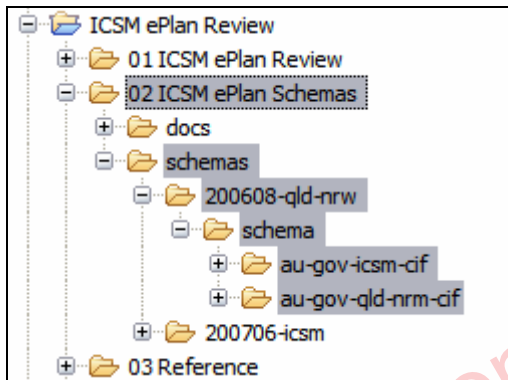
		annotations and survey certificates.	
As above.	NSW Lands Jurisdictional Data.pdf	As above.	Adobe PDF

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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

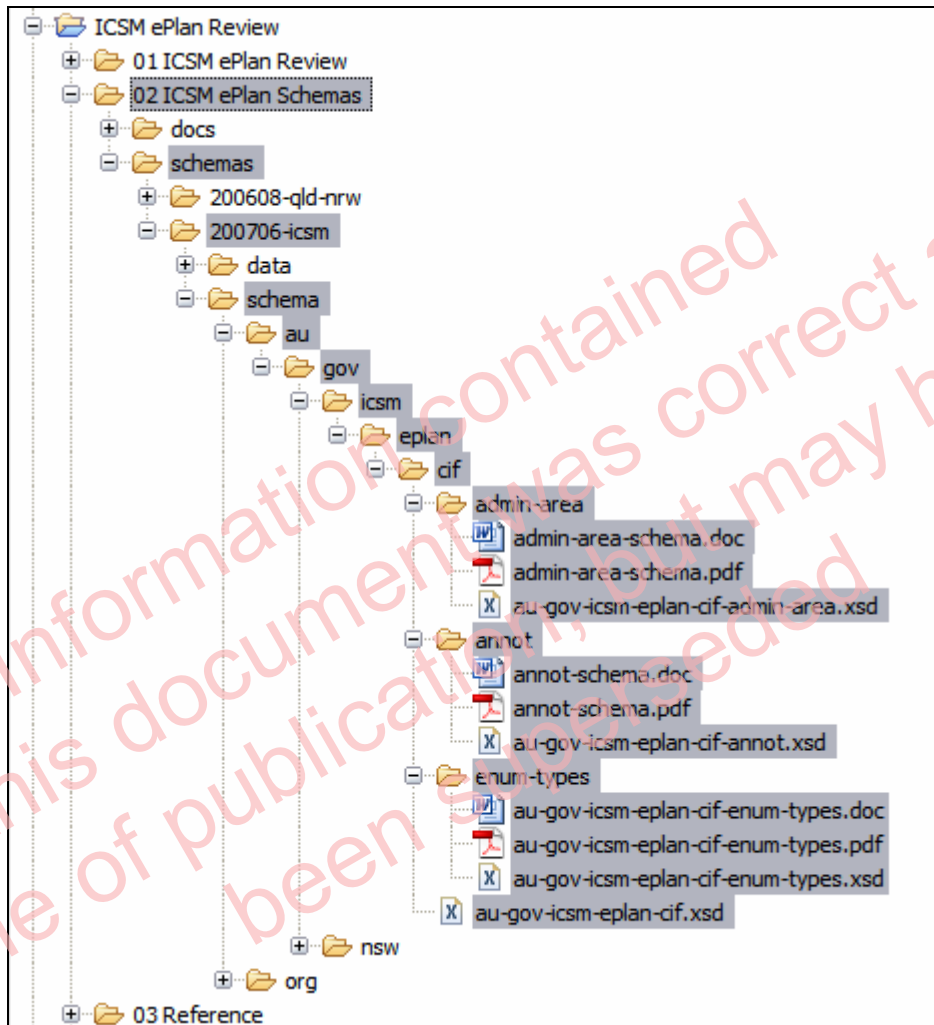
For more details, see Gray & Chowdhury (2006) and Cumerford (2004).

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

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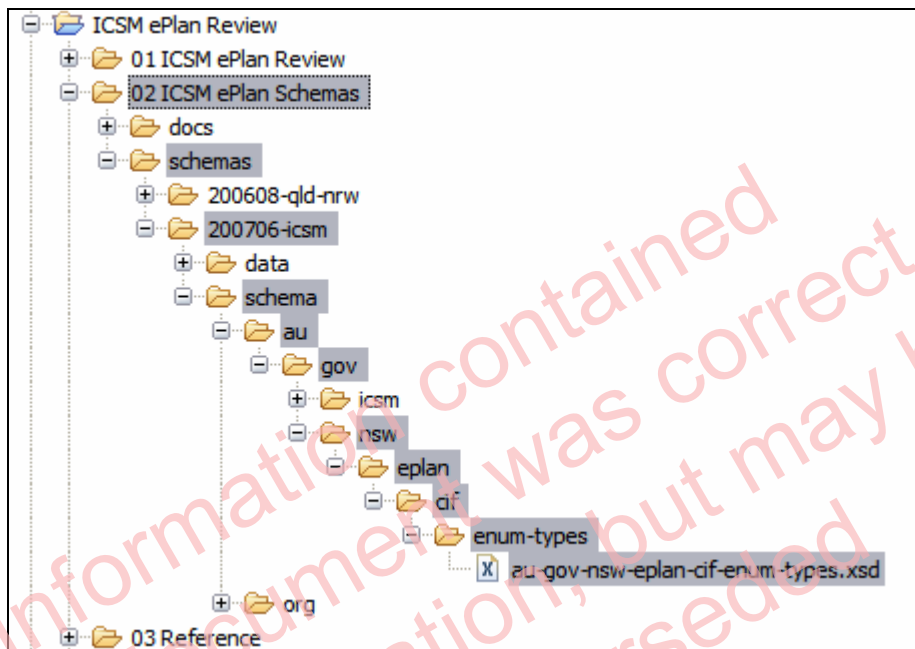
		(eg. NSW, QLD).
02 ICSM ePlan Schemas/ schemas/ 200706-icsm/ schema/ au/gov/icsm/eplan/cif/	au-gov-icsm- eplan-cif.xsd	Sample parent XML Schema which includes other ICSM ePlan XML Schemas.

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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

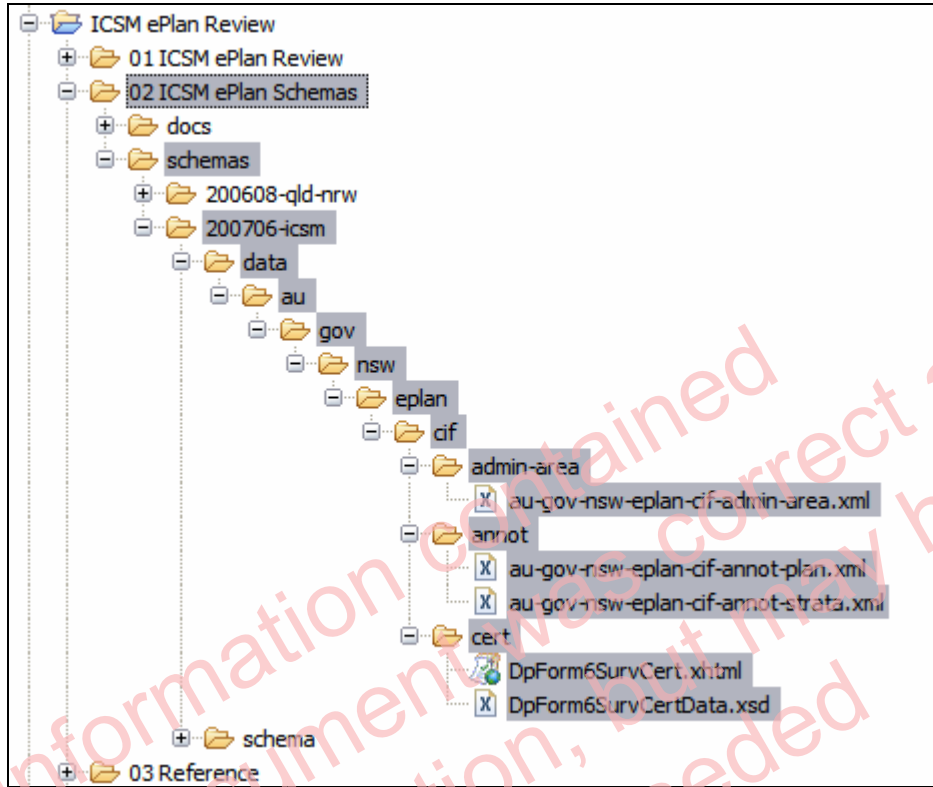
Folder Path	Folder/File Name	Description
02 ICSM ePlan Schemas/ schemas/ 200706-icsm/ schema/ au/gov/nsw/eplan/cif/	au-gov-nsw-eplan-cif-enum-types.xsd	NSW specific Enumerated Types XML Schema. This XML Schema was copied from the ICSM ePlan Enumerated Types XML Schema and populated with NSW jurisdictional 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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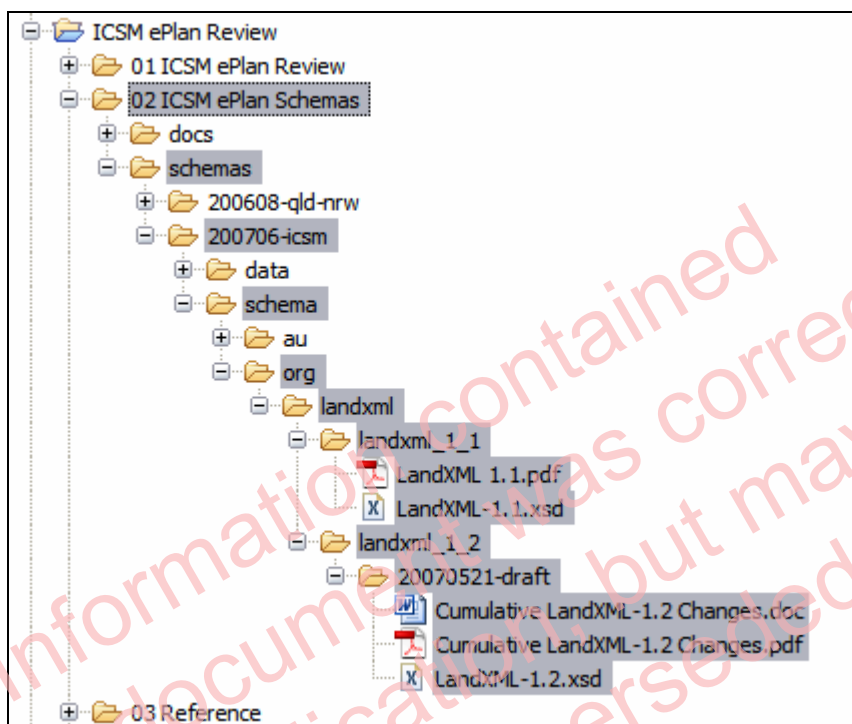
annot/		
As above	au-gov-nsw-eplan-cif-annot-strata.xml	NSW specific strata annotation XML data.
02 ICSM ePlan Schemas/schemas/200706-icsm/data/au/gov/nsw/eplan/cif/cert/	DpForm6SurvCert.xhtml	NSW Deposited Plan Form 6 Surveyor Certificate XHTML + XForms definition.
As above.	DpForm6SurvCertData.xsd	XML Schema for NSW Deposited Plan Form 6 Surveyor Certificate.

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

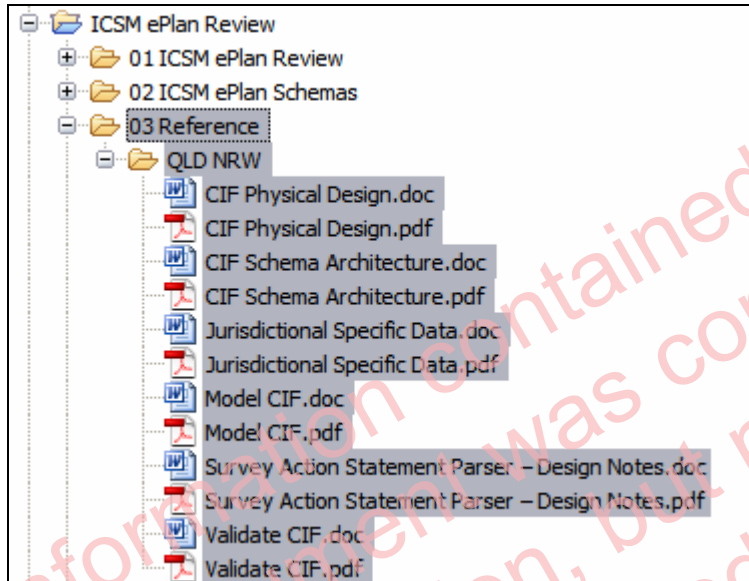
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6 REFERENCE DOCUMENTS

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.	CIF Schema Architecture.pdf	As above.	Adobe PDF
As above.	Jurisdictional Specific Data.doc	Describes the method of embedding jurisdictional specific lists within the LandXML 1.1 schema.	MS Word
As above.	Jurisdictional Specific Data.pdf	As above.	Adobe PDF
As above.	Model CIF.doc	Describes the physical layout of a CIF file using the LandXML 1.1 XML Schema.	MS Word
As above.	Model CIF.pdf	As above.	Adobe PDF
As above.	Survey Action Statement Parser – Design Notes.doc	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.	Survey Action Statement Parser	As above.	Adobe PDF

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

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7 REFERENCES

NOTES: *These references are defined according to the Harvard Referencing Standard. For more details, see 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