

## AWDIP WORK PLAN 2007-08

**Priorities for the TWG:**

The TWG has prepared an AWDIP work plan from May 2007 to June 2008. This table lists a number of outstanding tasks, responsibilities, timeframes and priority of these tasks. The TWG has placed high priority on certain work:

1. The TWG believes that there is a need to establish a governance process which will ensure that the capabilities of AWDIP can be expanded to cater for the wider needs of the NWI and also the water information needs of the National Water Security Plan (which includes AWRIS).
2. The TWG believes that there is the need for documentation and rigorous testing to ensure AWDIP is robust and can support client needs (including the National Land and Water Resources Audit, the National Water Initiative and the water information needs of the National Water Security Plan, which includes AWRIS).

The TWG anticipates all jurisdictions (except ACT) will have fully operational services delivering datasets by June 2008. Additional datasets will be made available by the agencies as they become feasible.

Number	Task	Responsibility	Priority	Demonstration of progress (Task)	Timeframe
<b>1</b>	<b>Governance/Change management</b>			<b>16.1</b>	<b>June 2007</b>
1.1	<ul style="list-style-type: none"> <li>• Define the Governance Process for AWDIP objects</li> </ul>	TWG	1	16.1	June 2007
1.1	<ul style="list-style-type: none"> <li>• Define the Governance of AWDIP documentation</li> </ul>	TWG	1	16.1	June 2007
1.2	<ul style="list-style-type: none"> <li>• Define the Governance of AWDIP queries</li> </ul>	TWG	1	16.1	June 2007
1.3	<ul style="list-style-type: none"> <li>• Define the Governance of AWDIP profiles</li> </ul>	TWG	1	16.1	June 2007
1.4	<ul style="list-style-type: none"> <li>• Define the Governance of extending AWDIP profiles</li> </ul>	TWG	1	16.1	June 2007
<b>2</b>	<b>Upgrade AWDI model</b>		<b>1</b>	<b>16.1</b>	<b>15 June 2007</b>
2.1	Realignment of query and response model to include all features in the NR model	Evert Bleys / Rob Atkinson		16.1	
2.2	Upgrade model to allow for: <ul style="list-style-type: none"> <li>• identification of what data is available from feature including parameters available, period of availability and number of observations made</li> <li>• changes to international standards including the Observations and Measurements model</li> </ul>	Rob Atkinson / Evert Bleys		16.1	
2.3	Upgrade scripts to deal with upgraded model	Rob Atkinson		16.1	
<b>3</b>	<b>Database upgrades</b>		<b>1</b>	<b>16.1</b>	<b>30 June 2007</b>
3.1	Modify table structures to accommodate changes to the model e.g. "view" with features, parameters, temporal extent, counts	Evert Bleys / Agencies		16.1	
<b>4</b>	<b>Reference implementation of upgraded GeoServer</b>		<b>1</b>	<b>16.2</b>	<b>December 2007</b>
4.1	Install a reference implementation	Evert Bleys or an Agency (e.g. SA)		16.2	August 2007
4.2	Upgrade SQL scripts to deal with new version of GeoServer	Rob Atkinson / Agencies		16.2	August 2007
4.3	Implementation of reference GeoServer using SDE	Rob Atkinson / Agencies		As available	As available
4.4	Test new version of GeoServer against reference implementation: <ul style="list-style-type: none"> <li>• Load test</li> </ul>	TWG / Rob Atkinson		16.2	September 2007 to December 2007

20070723

	<ul style="list-style-type: none"> <li>Reliability test</li> <li>Error handling</li> <li>Other?</li> </ul>				
<b>5</b>	<b>Testing</b>			<b>16.2</b>	<b>November 2007</b>
5.1	<ul style="list-style-type: none"> <li>Development of test harness <ul style="list-style-type: none"> <li>Documentation on how to use</li> </ul> </li> </ul>	Reference Implementer	2	16.2	August 2007
5.2	<ul style="list-style-type: none"> <li>Design tests</li> </ul>	TWG / Rob Atkinson	2	16.2	November 2007
5.3	<ul style="list-style-type: none"> <li>Testing against development</li> </ul>	TWG	2	16.1, 16.2, 16.3 and 16.4	At each stage
<b>6</b>	<b>Operational Services</b>		<b>2</b>	<b>16.2</b>	<b>December 2007</b> (implementation could be delayed if GeoServer V1.6 is not released as scheduled;  only Task 4 would be affected)
6.1	Upgrade scripts to accommodate local database structure	Agencies / Rob Atkinson?		16.2	December 2007
6.2	Install new version of GeoServer [after reference implementation has been tested for stability]	Agencies		16.2	December 2007
6.3	Test agency installation <ul style="list-style-type: none"> <li>Load test</li> <li>Reliability test</li> <li>Error handling</li> <li>Standard datasets</li> <li>Other priority datasets (as appropriate)</li> </ul>	Agencies		16.2	December 2007
6.4	<ul style="list-style-type: none"> <li>Publish operational services</li> </ul>	Agencies	2	As available	Post-testing
<b>7</b>	<b>Registries</b>			<b>16.2</b>	<b>August 2007</b>
7.1	Investigate catalogue registries and develop template	BRS	2	16.2	30 June 2007
7.2	Development of a short-term register of participating nodes	BRS	1	16.2	August 2007
7.3	Model design of enterprise level catalogue / registry	CSIRO	3	As available	As available
7.4	Implement enterprise level catalogue / registry	CSIRO	3	As available	As available
<b>8</b>	<b>Documentation of AWDI profile</b>			<b>16.1, 16.2 and 16.4</b>	<b>June 2008</b>
8.1	Describe the documentation required	BRS / CSIRO	1	16.1	By 12 June 2007
8.2	Define query model and application schema	BRS		16.2 and 16.4	
8.2.1	<ul style="list-style-type: none"> <li>Working description of the query model</li> </ul>	BRS	1	16.2	August 2007
8.2.2	<ul style="list-style-type: none"> <li>Query model documented in a formal format</li> </ul>	CSIRO	3	16.4	June 2008
8.3	Vocabularies	BRS		16.1 and 16.2	August 2007
8.3.1	<ul style="list-style-type: none"> <li>Identify / harmonise with other models including Australian natural resource models and other international water models (e.g. WaterML)</li> </ul>	BRS	1	16.1	July 2007
8.3.2	<ul style="list-style-type: none"> <li>Document vocabularies – Features, Parameters, Methods, Uses, etc</li> </ul>	BRS	1	16.2	August 2007
8.3.3	<ul style="list-style-type: none"> <li>Document definitions</li> </ul>	BRS	2	16.2	September 2007
8.4	<ul style="list-style-type: none"> <li>Describe Reference Model</li> </ul>	BRS / Other	2	16.4	June 2008
8.5	<ul style="list-style-type: none"> <li>Describe Reference Implementation</li> </ul>	BRS / Other	2	16.2	Draft September 2007

20070723

				16.2	Final December 2007
8.6	• Describe AWDI profiles	CSIRO	2	16.3	March 2008
<b>9</b>	<b>Implement metadata standards</b>			<b>16.2, 16.3 and 16.4</b>	<b>June 2008</b>
9.1	• Describe AWDIP	BRS		16.2	
9.1.1	○ Generate stand-alone metadata records for the documents that describe AWDIP in an appropriate international standard and published on the ASDD		1	16.2	August 2007 (Ongoing as documentation is completed / modified)
9.1.2	○ Generate metadata records for the components (e.g. code-lists, schemas and scripts) of AWDIP		1	16.2	August 2007 (Ongoing updating of components and as new components arise)
9.2	• Data quality tags system for individual results (or sets)			16.3 and 16.4	
9.2.1	○ Identify standard data quality categories	TWG	2	16.3	March 2008
9.2.2	○ Develop coding system [ISO19115 DQ_DataQuality]	BRS / TWG	2	16.4	May 2008
9.2.3	○ Implementation at response generation	Agencies	2	16.4	June 2008
9.3	• Dataset Metadata Tags to link to documents conforming to ISO19115-ISO19139			16.2 and 16.3	
9.3.1	○ Generate and display appropriate metadata to associate with responses (at the dataset, feature or feature instance level)	TWG / Agencies / BRS	1	16.2	November 2007
9.3.2	○ Response FeatureMember linked to metadata record	Agencies / TWG	1	16.3	February 2008
9.4	• Service Metadata Tags to link to documents conforming to ISO19115, ISO19119 and ISO19139			16.2 and 16.3	
9.4.1	○ Generate and display appropriate metadata to associate with responses	? / TWG	1	16.2	December 2007
9.4.2	○ Query responses (including "showCapabilities") linked to metadata record	Agencies / TWG	1	16.3	February 2008
<b>10</b>	<b>Assist other jurisdictions in delivery</b>		<b>2</b>	<b>As available</b>	<b>June 2008</b>
10.1	Victoria investigating database alignment	Agencies / BRS		As available	Ongoing
10.2	Queensland employing Rob Atkinson to install Geoserver	Agencies / BRS		16.1	30 June 2007
10.3	Northern Territory paralleling Qld	Agencies / BRS		16.1	
10.4	Kisters is developing the data management processes Kisters-developed scripts will be shared with other agencies	Agencies / BRS		16.1	30 June 2007 30 June 2007
<b>11</b>	<b>Increase data capabilities to support Products</b>			<b>As available</b>	<b>June 2008</b>
11.1	• New parameters:				
11.1.1	○ To meet NLWRA reporting requirements, for selected features: ▪ annual mean flow and annual mean EC ▪ Exceedance of (local) Standards	TWG / NLWRA	1	16.2	October 2007
11.1.2	○ Priority Datasets	TWG / BOM	3	As available	

20070723

	<ul style="list-style-type: none"> <li>▪ define appropriate parameters</li> </ul>				
11.1.3	<ul style="list-style-type: none"> <li>○ New Datasets               <ul style="list-style-type: none"> <li>▪ Investigation of client needs and feasibility for delivery</li> </ul> </li> </ul>	TWG / CSIRO	3	As available	
11.2	<ul style="list-style-type: none"> <li>○ Delivery of data</li> </ul>	Agencies	2	16.2	November 2007
<b>12</b>	<b>Publish Regions / Features</b>		<b>2</b>	<b>16.1, 16.2 and 16.4</b>	<b>June 2008</b>
12.1	<ul style="list-style-type: none"> <li>• Identify appropriate regionalisations that could be delivered on (NAP/NHT, River Basins, GMUs, WMUs, Rivers, etc)</li> </ul>	TWG / NLWRA		16.1	August 2007
12.2	<ul style="list-style-type: none"> <li>• Identify appropriate agencies to publish regionalisations</li> </ul>	NLWRA / TWG		16.2	December 2007
12.3	<ul style="list-style-type: none"> <li>• Publish regions not being served by other agencies as WFS</li> </ul>	BRS / NLWRA		16.4	June 2008
<b>13</b>	<b>Technical issues - query/response incompatibility needs sorting</b>	<b>NR_Atlas / Other</b>	<b>2</b>	<b>As available</b>	<b>Once identified</b>
<b>14</b>	<b>Maintaining currency</b>			<b>16.4</b>	<b>June 2008</b>
14.1	<ul style="list-style-type: none"> <li>• Alignment of AWDI with major technical innovations</li> </ul>	CSIRO / TWG	2	As available	Ongoing
<b>15</b>	<b>Prepare website with links (www.daff.gov.au/awdip) to the reference implementation documentation, and to appropriate sites that use AWDI or have tools associated with AWDI</b>	<b>BRS</b>	<b>2</b>	<b>16.2</b>	<b>August 2007 and ongoing updates</b>
<b>16</b>	<b>Demonstrations</b>				<b>June 2008</b>
16.1	<ul style="list-style-type: none"> <li>• Spatial Enabling Government</li> </ul>	TWG	2		13-14 August 2007
16.2	<ul style="list-style-type: none"> <li>• ESCAWRI or other</li> </ul>	TWG	2		December 2007
16.3	<ul style="list-style-type: none"> <li>• ESCAWRI or other</li> </ul>	TWG	2		March 2008
16.4	<ul style="list-style-type: none"> <li>• ESCAWRI or other</li> </ul>	TWG	2		June 2008
16.5	<ul style="list-style-type: none"> <li>• Progress on developments (including documentation)</li> </ul>	TWG	2		As required
<b>17</b>	<b>Support alternative Standard database structures</b>	<b>TWG</b>	<b>4</b>	<b>16.4</b>	<b>June 2008 (as required)</b>
17.1	<ul style="list-style-type: none"> <li>• Developing SQL queries to extract information from the National Groundwater Data Transfer Standard</li> </ul>			As available	
<b>18</b>	<b>Implement and test Web Map Services to complement WFS, particularly for fine scale mapping</b>	<b>NLWRA / BRS</b>	<b>5</b>	<b>As available</b>	
<b>19</b>	<b>Explore cascading WFS to present an integrated national service</b>		<b>5</b>	<b>As available</b>	