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| **Test Plan v0.1 (draft)** Author: Dominic Woollatt - Met Office  Date: 10/02/2016 | GeoNetwork opensource logo |

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| **OpenWIS Version: v3.14.2** | | |  | |
| Target Release Date | March 2016 | Testing Complexity (High, Average, Low) | | **Low** |
| Planned Chill Date | 28th Jan 2016 | Requirements/Design Quality and Testability | | **Low** |

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| **Summary** |
| This Test Plan to check that OpenWIS v3.14.2 passes WMO WIS Compliance Specifications for GISC functionality.  (<https://www.wmo.int/pages/prog/www/WIS/documents/TechnicalSpecification1-2.doc>)  The OpenWIS Testing Team will be responsible for the system test of the software, with the OpenWIS Technical Committee (TC) overseeing it, to monitor the progress and quality. Test Case development will take in the order of 7 days. System testing will take in the order of 7 days. However, this is based on assumptions about availability of personnel. |

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| **Hosting Environments** |
| Amazon Web Service (AWS) |

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| **Testing Team Members** |
| Dominic Woollatt |

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| **Key Outcomes** |
| Deliver a public release of OpenWIS that passes the WMO WIS Tech Specs:   1. WIS-TechSpec-1, Uploading of Metadata for Data and Products 2. WIS-TechSpec-2, Uploading of Data and Products 3. WIS-TechSpec-3, Centralization of Globally Distributed Data 4. WIS-TechSpec-4, Maintenance of User Identification and Role Information 5. WIS-TechSpec-5, Consolidated View of Distributed Identification and Role Information 6. WIS-TechSpec-6, Authentication of a User 7. WIS-TechSpec-7, Authorization of a User Role 8. WIS-TechSpec-8, DAR Catalogue Search and Retrieval 9. WIS-TechSpec-9, Consolidated View of Distributed DAR Metadata Catalogues 10. WIS-TechSpec-10, Downloading Files via Dedicated Networks 11. WIS-TechSpec-11, Downloading Files via Non-dedicated Networks 12. WIS-TechSpec-12, Downloading Files via Other Methods 13. WIS-TechSpec-13, Maintenance of Dissemination Metadata 14. WIS-TechSpec-14, Consolidated View of Distributed Dissemination Metadata Catalogues 15. WIS-TechSpec-15, Reporting of Quality of Service |

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| **Proposed Approach** |
| 1. To achieve Key Outcomes develop tests based on WMO Information Compliance Specification Use Cases for Major WIS functions and store in GitHub    1. Use Case B.1, Provide Metadata for Data or Product    2. Use Case B.2, Upload Data or Product to DCPC or GISC    3. Use Case B.3, Control Metadata Association to Data or Product    4. Use Case B.4, Manage Cache of Data across GISCs    5. Use Case B.5, Maintain Identification and Role Information for WIS Users    6. Use Case B.6, Discover Data or Products    7. Use Case B.7, Ad Hoc Request for Data or Product ("Pull")    8. Use Case B.8, Subscribe to Data or Product ("Push")    9. Use Case B.9, Download Data or Product from WIS Centre    10. Use Case B.10, Provide Dissemination Metadata    11. Use Case B.11, Report Quality of Service across WIS Centres 2. Carry out Tests on OpenWIS v3.14.2 deployment in AWS 3. Log issues/defects on GitHub 4. Produce test report for OpenWIS Technical Committee |

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| **Out of Scope** |
| Installation Testing |
| Load Testing |
| Performance Testing |
| Penetration Testing |
| As there is no FTP/email harness available for use with the AWS instance of OpenWis, all tests involving data delivery by FTP/email will be skipped (but tests will be written) |
| DCPC/NC Deployment Testing |

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| **Critical Dependencies** |
| A baseline build of OpenWIS v3.14.2 successfully deployed on Amazon Web Services (AWS) that can reach the internet and has full access for testing team |
| Testing personnel availability |
| Associated documentation (such as release notes and user documentation) must have been made available. |

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| **Testing Dependencies** |
| Fully functional baseline deployment of OpenWIS v3.14.2 available in AWS |
| Testers have full access to the deployment in AWS. |
| Canned data available for cache + tester can add data to cache either manually or via ftp |
| Up to date Administrator and User Guides available. |

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| **Risk Areas/Assumptions** | **Risk** |
| Assumption - that the Middleware Uplift and bug fixes/additions from v3.12 have already passed unit testing by developers | **Low** |
| Assumption - that deployment on AWS has been carried out successfully as per updated Installation Guide. | **Low** |
| Assumption - All required metadata and data feeds are available and working | **Medium** |
| Admin and User documentation is available and up to date | **Medium** |
| Access to AWS for testing OpenWIS v3.14.2 is available | **Low** |
| Canned data may not be sufficient to provide a good level of testing | **Medium** |
| Software under test remains static during testing, with no changes being made | **Low** |
| Only testing GISC functionality (DCPC/NC deployment not tested) | **Low** |

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| **Estimates** | |
| **Test Case Development:** | ~ 7 days |
| **Testing:** | ~ 7 days |
| **Total:** | **~ 14 days** |