

WITS Technical Bulletin Index

Date of last update: 9 February 2022

| **Index** | **AN Affected** | **Subject** | **Type** | **Status (\*)** | **Vers.** | **Date raised** | **Last updated** | **Approved** | **Doc. Pack Release** | **Protocol Version** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| #1 | AN2005-004 Iss. 0.13 | Correction to examples | Correction | AU | 1 | 29-May-08 | 29-May-08 | 5-Jun-08 | 1 Beta |  |
| #2 | AN2005-005 Iss. 0.15 | Callback DS | Design change | AU (BC) | 6 | 13-May-08 | 16-Sep-08 | 23-Sep-08 | 1 Beta |  |
| #3 | AN2005-004 Iss. 0.17 & AN2005-006 Iss. 0.23 | Flags carried by associated values | Clarification | AU (JDH) | 5 | 3-Jun-08 | 24-Jul-08 | 3-Dec-09 | 1 Beta |  |
| #4 | AN2005-005 Iss. 0.15 & AN2005-006 Iss. 0.19 | Alarms (see TQ001) | Design change | AU (AS/CD) | 12 | 13-May-08 | 2-Sep-09 | 2-Sep-09 | 1 Beta |  |
| #5 | AN2005-005 Iss. 0.15 | Data sets (characteristics, prototypes, class 0) | Clarification | AU (JDH) | 1 | 22-Jul-08 | 24-Jul-08 | 22-Sep-08 | 1 Beta |  |
| #6 | AN2005-001 Iss. 0.14 & AN2005-002 Iss. 0.17 & AN2005-004 Iss. 0.13 & AN2005-005 Iss. 0.15 & AN2005-006 Iss. 0.19 | Alarm inhibit (see TQ002) | Design change | AU (JDH/CD) | 6 | 22-Jul-08 | 25-Nov-09 | 25-Nov-09 | 1 Beta |  |
| #7 | AN2005-004 Iss. 0.13 & AN2005-006 Iss. 0.19 | Data logging | Clarification | AU (SC) | 4 | 22-Jul-08 | 21-Mar-09 | 13-Aug-09 | 1 Beta |  |
| #8 | AN2005-005 Iss. 0.15 & AN2005-006 Iss. 0.19 & DP Iss. 0.3 | Add missing binary persistence (includes XML device profile) | Design change | AU (JP) | 4 | 22-Jul-08 | 28-Jul-08 | 23-Sep-08 | 1 Beta |  |
| #9 | AN2007-001 Iss. 0.7 | Unsolicited NULL response or event at connection start-up | Clarification | AU (AS) | 1 | 22-Jul-08 | 24-Jul-08 | 22-Sep-08 | 1 Beta |  |
| #10 | AN2005-005 Iss. 0.15 | Remove ‘state’ element from binary SCDS | Design change | AU (JDH) | 1 | 22-Jul-08 | 24-Jul-08 | 22-Sep-08 | 1 Beta |  |
| #11 | AN2005-006 Iss. 0.19 | IC record ordering (group records for a point and profiles before limits) | Clarification | AU (BC) | 3 | 22-Jul-08 | 16-Sep-08 | 22-Sep-08 | 1 Beta |  |
| #12 | AN2007-001 Iss. 0.7 | Remove ‘assign class’ from implementation table | Correction | AU (JDH) | 1 | 22-Jul-08 | 24-Jul-08 | 22-Sep-08 | 1 Beta |  |
| #13 | AN2007-001 Iss. 0.7 | Remove g70v0 ‘File Events’ from implementation table | Correction | AU (JDH) | 4 | 27-Aug-08 | 22-Sep-08 | 24-Sep-08 | 1 Beta |  |
| #14 | AN2007-001 Iss. 0.19 | IC assumed defaults | Clarification | AU (JP) | 2 | 22-Sep-08 | 25-Sep-08 | 13-Aug-09 | 1 Beta |  |
| #15 | AN2005-005 Iss. 0.15 | Application deletion | Design change | AU (BC) | 7 | 22-Sep-08 | 18-Aug-09 | 18-Aug-09 | 1 Beta |  |
| #16 | AN2005-006 Iss. 0.19 | Scheduled connections | Clarification | AU (AS) | 1 | 22-Sep-08 | 22-Sep-08 | 13-Aug-09 | 1 Beta |  |
| #17 | AN2005-001 Iss. 0.14 & AN2005-002 Iss. 0.17 & AN2007-001 Iss. 0.7 & DP Iss. 0.3 | Support of ‘template’ bulk configuration files | Clarification | AU (JP) | 6 | 28-Oct-08 | 14-Jan-09 | 13-Aug-09 | 1 Beta |  |
| #18 | AN2005-003 Iss. 0.14 & AN2005-002 Iss. 0.17 & AN2007-001 Iss. 0.7 | Security proposal – Initial Update Key Management | Design change | R (SC) | 2 | 21-Oct-08 | 2-Sep-09 |  |  |  |
| #19 | AN2005-005 Iss. 0.15 & AN2005-006 Iss. 0.19 & DP Iss. 0.3 | Connection Detail | Design Change | AU (CD) | 6 | 09-Feb-09 | 4-Sep-09 | 4-Sep-09 | 1 Beta |  |
| #20 | AN2005-004 Iss. 0.13 & AN2005-006 Iss. 0.19 | IC record 1006 name change | Clarification | AU (CD) | 1 | 10-Feb-09 | 24-Feb-09 | 13-Aug-09 | 1 Beta |  |
| #21 | AN2005-005 Iss. 0.15 & AN2007-001 Iss. 0.19 | Add optional ‘1 file=many apps’ to Application Management | Design Change | AU (JDH) | 4 | 22-Jul-09 | 13-Aug-09 | 13-Aug-09 | 1 Beta |  |
| #22 | AN2005-006 Iss. 0.23 | Counter overrides | Clarification | AU (CD) | 3 | 22-Nov-09 | 24-Nov-09 | 26-Nov-09 | 1 Beta |  |
| #23 | AN2005-006 Iss. 0.23 & AN2007-001 Iss. 0.10 | Add disable option to Analogue/Counter point limit configuration | Design Change | AU (RC) | 5 | 11-Feb-10 | 17-Feb-10 | 16-Apr-10 | 1 | 1.0 |
| #24 | AN2005-005 Iss. 0.19 | Use of HCDS Close Comms bit | Design Change | AU (JDH) | 3 | 11-Feb-10 | 22-Feb-10 | 16-Apr-10 | 1 | 1.0 |
| #25 | AN2005-005 Iss. 0.19 & AN2005-006 Iss. 0.23 | Limit thresholds and disable scheduled connections | Clarification | AU (JP) | 3 | 23-Feb-10 | 12-Mar-10 | 16-Apr-10 | 1 | 1.0 |
| #26 | AN2005-005 Iss. 0.19 | Application management get information | Design Change | AU (AS) | 1 | 25-Feb-10 | 25-Feb-10 | 16-Apr-10 | 1 | 1.0 |
| #27 | AN2005-001 Iss. 0.16 & AN2005-002 Iss. 0.19 & AN2005-004 Iss. 0.17 & AN2005-005 Iss. 0.19 & AN2005-006 Iss. 0.23 & AN2007-001 Iss. 0.10 | DNP3 events for analogue counter and binary points | Design Change | AU (AS) | 5 | 1-Apr-10 | 8-Apr-10 | 19-Apr-10 | 1 | 1.0 |
| #28 | AN2005-006 Iss. 0.23 | Integral calculation and TQ003 | Clarification | AU (JP) | 5 | 1-Apr-10 | 20-Apr-10 | 20-Apr-10 | 1 | 1.0 |
| #29 | AN2005-001 Iss. 0.16 | Clarification of terms ‘alarm’ and ‘event’ | Clarification | AU (BS) | 5 | 14-Apr-10 | 26-Apr-10 | 26-Apr-10 | 1 | 1.0 |
| #30 | AN2005-001 Iss 0.16 & AN2005-002 Iss 0.19 & AN2005-004 Iss 0.14 & AN2005-005 Iss. 0.19 & AN2005-006 Iss. 0.23 &  AN2007-001 Iss. 0.10 | Clarification on use of ‘highest of all action’, state change inhibit and other minor corrections | Clarification | AU (CD) | 12 | 14-Apr-10 | 4-May-10 | May 2010 | 1 | 1.0 |
| #31 | Device Profile Iss 0.5 | Improvement to scheduled connection repeat interval token | Design Change | AU (JDH) | 2 | 23-Apr-10 | 26-Apr-10 | May 2010 | 1 | 1.0 |
| #32 | AN2005-005 Iss. 0.19 & AN2005-006 Iss. 0.23 | Improvement to action used for DNP3 object flag change | Design Change | AU (CD) | 13 | 27-Apr-10 | 6-May-10 | May 2010 | 1 | 1.0 |
| #33 | AN2005-001 Rev 1.1 AN2005-002 Rev 1.1 AN2005-003 Rev 1.0 AN2005-004 Rev 1.1 AN2005-005 Rev 1.1 AN2005-006 Rev 1.1 AN2007-001 Rev 1.1 WITS DP Rev 1.1 Compliance Test Manual Rev 1.3 | Editorial corrections and clarifications | Clarification | AU (BS) | 10 | 21-Jun-2010 | 15-Sep-10 | Sep 2010 | 2 | 1.1 |
| #34 | AN2005-006 Rev 1.1 | Change to IC record 2 | Design Change | AU (BS) | 9 | 12-Jul-10 | 15-Sep-10 | Sep 2010 | 2 | 1.1 |
| #35 | AN2005-001 Rev 1.2 AN2005-002 Rev 1.2 AN2005-006 Rev 1.2 AN2007-001 Rev 1.2 WITS DP Rev 1.3 | New IC record using profiles to calculate control point values | Design Change | AU (BS) | 8 | 12-Jul-10 | 15-Sep-10 | Sep 2010 | 3 | 1.2 |
| #36 | AN2005-005 Rev 1.1 AN2005-006 Rev 1.1 AN2007-001 Rev 1.1 WITS DP Rev 1.1 | Clarifications following the completion of interoperability testing. | Clarification / Correction | AU (BS) | 5 | 1-Dec-10 | 15-Dec-10 | 15-Dec-10 | 2 | 1.1 |
| #37 | AN2005-002 Rev 1.2 AN2005-004 Rev 1.2 AN2005-005 Rev 1.2 AN2005-006 Rev 1.2 AN2007-001 Rev 1.2 WITS DP Rev 1.3 | Further clarification and design changes following interoperability testing of WITS-DNP3 version 1.1 | Clarification / Design Change | AU (BS) | 5 | 20-Jan-11 | 2-Feb-11 | 2-Feb-11 | 3 | 1.2 |
| #38 | AN2005-002 Rev 1.2 AN2005-004 Rev 1.2 AN2005-005 Rev 1.2 AN2005-006 Rev 1.2 AN2007-001 Rev 1.2 WITS DP Rev 1.3 | Miscellaneous corrections identified since WITS-DNP3 version 1.1 | Clarification / Design Change | AU (AS) | 5 | 17-May-11 | 6-Jun-11 | 6-Jun-11 | 3 | 1.2 |
| #39 | AN2005-001 Rev 1.3 AN2005-002 Rev 1.3 AN2007-001 Rev 1.3 Appendix A and B  WITS PSA Test Spec | DNP3 Secure Authentication V5 | Discussion / Design Change | AU (BS) | 10 | 20-Dec-11 | 16-Apr-12 | 16-Apr-12 | 4 | 2.0 |
| #40 | AN2005-001 Rev 1.3 AN2005-002 Rev 1.3 AN2005-003 Rev 1.1 AN2005-005 Rev 1.3 AN2005-006 Rev 1.3 AN2007-001 Rev 1.3  WITS PSA Test Spec L2 Test Supplement V0.5 | Miscellaneous corrections Data sets and class 0 responses | Corrections / Design Change | AU (BS) | 6 | 23-Feb-12 | 16-Apr-12 | 16-Apr-12 | 4 | 2.0 |
| #41 | WITS PSA Test Spec | Clarification to tests in 2.5.2 | Clarification | AU (BS) | 2 | 18-June-12 | 20-June-12 | 20-June-12 | 4 | 1.1, 1.2 and 2.0 |
| #42 | AN2005-001 Rev 1.4 AN2005-002 Rev 1.4 AN2005-004 Rev 1.3 AN2005-005 Rev 1.4 AN2005-006 Rev 1.4 AN2007-001 Rev 1.4  WITS DP Rev 1.4  WITS PSA Test Spec | High Speed data sampling and locally applied action inhibits | Design Change | AU (TWUL) | 6 | 2-Aug-12 | 27-Sep-12 | 27-Sep-12 | 5 | 1.3 and 2.1 |
| #43 | AN2005-005 Rev 1.4  AN2005-006 Rev 1.4 | Correcting a data set example.  Clarification of “point type” in IC records 1000, 1001 and 1009 | Clarification | AU (BS) | 4 | 29-Aug-12 | 27-Sep-12 | 27-Sep-12 | 5 | all |
| #44 | AN2005-006 Rev 1.5  XML Device Profile  WITS PSA Test Spec | Clarification of Control Profiles. Strengthening the XML schema and simplifying the xslt translation. Clarifying and correcting the test specs. | Clarification | AU (BS) | 5 | 3-Jan-13 | 12-Feb-13 | 12-Feb-13 | 5 | all |
| #45 | AN2005-002 Rev 1.5  AN2005-004 Rev 1.4  AN2005-006 Rev 1.5  XML Device Profile  WITS PSA Test Spec | Counter reset after periodic logging | Design Change | AU (STW) | 5 | 12-Feb-13 | 7-May-13 | 7-May-13 | 5 | 1.3 and 2.1 |
| #46 | AN2005-002 Rev 1.5  AN2005-004 Rev 1.4  AN2005-006 Rev 1.5 AN2007-001 Rev 1.5  XML Device Profile  WITS PSA Test Spec | A number of corrections and clarifications. The TB is fronted as a Design Change, but in fact the changes are where previous documentation did not cover certain aspects. Vendors conforming to this TB may need to change/update their designs. | Clarification (Design Change) | AU (BS) | 7 | 3-Sep-13 | 28-Nov-13 | 28-Nov-13 | - | all |
| #47 | AN2005-006 Rev 1.5  Device Profile  WITS PSA Test Spec. | Binary point state persistence | Clarification | AU (BS) | 7 | 23-July-14 | 12-Feb-15 | 12-Feb-15 |  | all |
| #48 | ?? | Time zones | Design Change | UC (AS) | 1 | 23-July-14 |  |  |  |  |
| #49 | WITS PSA Test Spec | A correction to section 2.8.1.8 and removing repeated tests from 2.9.2 | Correction | AU (BS) | 3 | 23-July-14 | 26-Aug-14 | 26-Aug-14 | - | all |
| #50 | WITS PSA Test Spec | Added details of tests to be repeated for devices supporting multiple versions of the protocol. | Addition | AU (BS) | 2 | 25-Sep-14 | 15-Oct-14 | 15-Oct-14 | - | all |
| #51 | AN2005-006 Rev 1.5  WITS PSA Test Spec | Clarifying the use of profiles and static limits and testing that FDs do not reject valid configurations. | Clarification / Addition | AU (BS) | 3 | 15-Oct-14 | 27-Oct-14 | 27-Oct-14 | - | all |
| #52 | AN2005-006 Rev 1.5 | Clarifying the expected FD behaviour when configured with dual end-point connection records. | Clarification | AU (BS) | 11 | 15-Oct-14 | 12-Feb-15 | 12-Feb-15 | - | all |
| #53 | WITS PSA Test Spec | Correcting the expected results of test 2.5.9.14. | Correction | AU (BS) | 2 | 17-Nov-14 | 10-Dec-14 | 10-Dec-14 | - | all |
| #54 | AN2005-005 Rev 1.5  AN2005-006 Rev 1.5 | Applying and removing action inhibits | Correction | AU (BS) | 4 | 12-Feb-15 | 25-Feb-15 | 25-Feb-15 |  | all |
| #55 | WITS PSA Test Spec | Correcting 2.5.11.13 and 2.12.2 | Correction | AU (BS) | 3 | 25-Jun-15 | 14-Jul-15 | 14-Jul-15 |  | all |
| #56 | AN2005-002 Rev 1.6  AN2007-001 Rev 1.6  Device Profile  WITS PSA Test Spec | Defining how to use WITS-DNP3 in an optimised manner. | Addition | AU (BS) | 10 | 24-Jul-15 | 29-Feb-16 | 29-Feb-16 | 7 | 3.0 |
| #57 | AN2005-002 Rev 1.6  AN2005-004 Rev 1.5  AN2005-005 Rev 1.6  AN2005-006 Rev 1.6  AN2007-001 Rev 1.6  Device Profile  WITS PSA Test Spec | Adding incident logs and significant change logs | Addition | AU (BS) | 10 | 1-Jan-16 | 02-Mar-16 | 02-Mar-16 | 7 | 3.0 |
| #58 | AN2005-003 Rev 1.2 | Adding new DNP3 Device Attributes | Addition | AU (BS) | 3 | 1-Jan-16 | 19-Jan-16 | 22-Jan-16 | 7 | all |
| #59 | AN2005-006 Rev 1.6  Device Profile | HSSD configuration parameters | Design change | AU (BS) | 4 | 10-Feb-16 | 20-Feb-16 | 22-Feb-16 | 7 | 3.0 |
| #60 | Device Profile | Adds clarification comments | Clarification | AU (BS) | 7 | 16-Feb-16 | 29-Feb-16 | 29-Feb-16 | 7 | 3.0 |
| #61 | AN2005-004 Rev 1.6  AN2005-006 Rev 1.7  WITS PSA Test Spec | Adds details of the expected results when calculating extended and associated data points when the source point is invalid. | Clarification / Addition | AU (BS) | 4 | 7-Feb-17 | 6-Jun-17 | 6-Jun-16 | 8 | all |
| #62 | AN2005-004 Rev 1.6  AN2005-005 Rev 1.7  AN2005-006 Rev 1.7 AN2007-001 Rev 1,7  WITS PSA Test Spec | Clarification and correction for a number of tickets:  12, 39, 46, 47, 49, 50, 51 | Clarification / Addition | AU (BS) | 6 | 31-July-17 | 7-Feb-18 | 7-Feb-18 | 8 | all |
| #63 | AN2005-001 Rev 1.6  AN2005-002 Rev 1.7  AN2005-006 Rev 1.7  AN2007-001 Rev 1.7  WITS Device Profile version 1.6  and affects:  WITS PSA Test Specification version 3.1 | Calculated points | Clarification / Addition | AU (MD) | 3 | 26-May-21 | 28-Jan-22 | 8-Feb-2022 | 8 |  |

* (\*) N = Not started
* UI = Under Investigation
* UC = Under construction
* CFC = Circulated for Comment
* RW = Being Reworked
* R = Rejected
* AU = Approved by Users