

Application Notes Affected: AN2005-002 revision 1.5
AN2005-004 revision 1.4
AN2005-006 revision 1.5
AN2007-001 revision 1.5

WITS Device Profile revision 1.5

and

WITS PSA Test Specification versions 1.3 and 2.1

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Status: ~~Circulated for comment / Rejected~~ / **Accepted**

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1 Overview

Mistakes have been identified in various components of the documentation release packs:

1. There is an inconsistency between the Device Profile schema and the application notes with respect to the “interpolation time” component of the IC record for Profile Control Value. AN2005-006 identifies the field as an 8-bit unsigned integer, but the schema erroneously identifies it as a 32-bit unsigned integer. This affects the XML suite version 1.4.
2. AN2005-006 has an incorrect heading for the interpolation time (section 2.1.2.17), referring to it as element 6 but it should be element 12.
3. There is an inconsistency between the Device Profile schema and the application notes with respect to sampled data, affecting XML suite version 1.5:
 - Schema element “pointsSupportedType” has elements “maximum” and “list” defined as 32-bit unsigned integers but all point numbers in WITS are 16-bit unsigned integers
 - Schema element “pointsSupportedType” has element “list” defined as a sequence of point numbers with a minimum occurrence of 2 “value” elements. The schema should allow for a device to support a list with a single entry.
 - Schema element “cycleSizeType” is defined as 32-bit unsigned integer but AN2005-006 section 2.1.2.18 defines the “Cycle” element as a 16-bit unsigned integer. The schema should be corrected.
4. The functionality of high-speed sampled data was intended to allow optional functionality so that Field Devices could generate the data but not support configuration changes via Incremental Configuration. This functionality needs to be defined in the Device Profile. The presence of record type 1017 in IC upload and initial IC files needs to be defined if the Field Device doesn’t support IC download of record type 1017.
5. The list of IC topics in section 2.5.2 of AN2005-002 is missing Sampled Data.
6. IC record 1009 allows actions to be assigned to points when their DNP3 flags change. A vendor has asked what a Field Device should do if it receives an IC 1009 record for a point that is assigned to DNP3 class 0 and the action is 2 or 3 (i.e. generate a data set event). It would appear that rejecting the IC record with error code 26 would be the correct action.
7. There appears to be some inconsistency in the Application Notes about how the Connection Records are used by a Field Device. It should be clarified that the Field Device should use the records as a prioritised list, with the entry at index 0 being the highest priority. AN2005-006 states this but AN2005-002 makes a statement saying the prioritisation is defined by the Field Device.
8. IC record 1003, describing the element Point Limit Index has a reference to section 2.1.2.10 (IC record 1009) when discussing the “normal” state. This reference is no longer valid (IC record 1009 now being used for another topic) and should be removed. The same reference also needs to be removed from IC record 1004.
9. There is a typographical error in section 2.1.2.16 (State Runtime) of AN2005-006, where the description of the “End of Period Action” refers to state counters rather than state runtimes.
10. AN2005-002 states that “standard DNP3 event objects are not used by WITS for point events”. This needs clarification that this only applies to some binary, analogue and counter events.
11. Configuration upload statements in AN2007-001 need correcting because of the introduction of the Health Check Data Set bit “IC parameter value changed”.
12. A vendor suggests the log file “header” descriptions could be improved.

NB. In section 2 onwards, text that is shown in **red** represents words to be removed from the application notes and text in **blue** represents words to be inserted into the notes.

2 Changes to the Application Notes

2.1 AN2005-002, clarification of connection records priority and list of IC topics

Make the following changes to AN2005-002 for both WITS streams (the details are shown for the SAV2 stream).

2.1.1 Change front page as shown:

Revision 1.56

May2013November 2013

2.1.2 Add to the “Change History” as shown:

Date	Revision	WITS-DNP3 Version	Details
May 2013	1.5	1.3	Remove the requirements of DNP3 Secure Authentication version 5 for the WITS-DNP3 protocol version 1.x stream, creating version “a” of the Application Note. Update to section 2.6.3 to introduce the concept of counter values being reset after a periodic log. Add section 2.4.7 describing the use of locally applied action inhibits. Update to section 2.6.3 to introduce the concept of logging of high speed sampled data.
November 2013	1.6		Clarify the priority of connection records in section 2.3. Add “sampled data” to the list of IC topics in 2.5.2. Clarify the statement about the use of standard DNP3 event objects in section 2.4.2.

2.1.3 Section 2.3, last paragraph

Amend as shown:

In making a connection the Field Device will use a prioritised list of possible connections. This list is set up using Incremental Configuration; see [AN2005-006]. **The exact rules dictating how a connection’s priority and availability are determined is defined by the Field Device, WITS only requires that the highest priority “available” link is used to make the connection. The Field Device should use the list as a prioritised list, with the first entry in the list being assumed the one with the highest priority.**

2.1.4 Section 2.4.2

Clarify the third from end paragraph as shown:

Standard DNP3 events objects are not used by WITS for point events.

WITS devices use these Data Sets to report events instead of using the standard DNP3 object groups:

- Object Group 2, Binary Input Events

- Object Group 4, Double-Bit Binary Input Events
- Object Group 11, Binary Output Events
- Object Group 22, Counter Events
- Object Group 32, Analog Input Events
- Object Group 42, Analog Output Events

WITS devices use the standard DNP3 object groups to report other events.

2.1.5 Section 2.5.2, last bullet list

Add to the end of the list as shown:

- Profile control value. Allows the current value from a profile to be stored in a point and then used as a control value or set-point.
- High speed sampled data. Allows analogue input points to be configured to have high-speed sampling and data storage.

2.2 AN2005-004, improving the description of log file headers

Make the following changes to AN2005-004 for both WITS streams (the details are shown for the SAv2 stream).

2.2.1 Change front page as shown:

Revision 1.45

May2013November 2013

2.2.2 Add to the “Change History” as shown:

Date	Revision	WITS-DNP3 Version	Log File Version	Details
May 2013	1.5	1.3	3	Removed sentences in section 2.3.4 (that were in conflict with the Test Specification) that were left over from designs prior to WITS-DNP3 V1.1 Introduce an extension to the meaning of bit 3 of the WITS quality flags. Introduce high speed sampled data logs.
November 2013	1.5		3	Improve the description of the log file header.

2.2.3 Section 2.4.3

Amend as shown:

Headers may optionally appear multiple times in a file block, to describe the format of record data following that header. [The first element of the header is an indication of whether there are further headers in this file block.](#) Where a file block contains multiple headers this first element of the header provides a link to the next header within that block. A link value of 0 is used to show that this is the final header in the file block or the only header in the file block.

WITS capable Master Stations are required to parse files with multiple headers in the same block.

2.3 AN2005-006

2.3.1 Change front page as shown:

Revision 1.56

May2013November 2013

2.3.2 Add to the “Change History” as shown:

Date	Revision	WITS-DNP3 Version	Details
May 2013	1.5		Added clarification about “Point Type” to IC records 1000, 1001 and 1009. Clarify the use of profile control values when spanning a day boundary and when put off-scan. Clarify notes that OVER_RANGE points should not be used in determining significant changes. Introduce high speed sampled data configuration. Amend IC record 1005 to include the option to reset the value after the logging has occurred.
November 2013	1.6		Correct the heading for “Interpolation Time” in 2.1.2.17. Added note to 2.1.2.10 to reject IC requests for action 2 or 3 if point is assigned to DNP3 class 0. Removed erroneous cross-reference from IC records 1003 and 1004 description of PLI. Corrected text in “End of Period Action” from state counter to state runtime. Clarify the use of a sample time of 0 to disable sampling in section 2.1.2.18

2.3.3 Amend section 2.1.2.17

Following table 2-21, amend as shown:

Interpolation Time (Element 612)

The time period to be used to compute a new value for the profile control point, interpolating between the relevant two vectors in the profile. If set to zero then no interpolation is done, the current value from the profile being used as the Profile Control Value.

2.3.4 Section 2.1.2.10

Add the new note to the end of the section, as shown:

- The Field Device should reject any IC record that requests an action of 2 or 3 when the point is assigned to DNP3 class 0. This class assignment means that the point cannot generate events and hence the Field Device cannot generate Data Set instances as a result of an action 2 or action 3. The Field Device should reject the record and return error code 26.

2.3.5 Section 2.1.2.4

Correct the description of Point Limit Index to remove the erroneous cross reference, as shown:

Point Limit Index (Element 5)

The point limit index (PLI) defines which of the point's limits this record relates to, and must be a valid limit for the Field Device.

The PLIs used by the Field Device must start from one and be consecutive. Also, PLI one must correspond to the lowest limit, and the maximum PLI must correspond to the highest limit. PLI zero is reserved to represent the 'normal' state of a point (see section 2.1.2.10). A maximum of ten limits for each analogue point are allowed.

2.3.6 Section 2.1.2.5

Correct the description of Point Limit Index to remove the erroneous cross reference, as shown:

Point Limit Index (Element 5)

The point limit index (PLI) defines which of the point's limits this record relates to, and must be a valid limit for the Field Device.

The PLIs used by the Field Device must start from one and be consecutive. Also, PLI one must correspond to the lowest limit, and the maximum PLI must correspond to the highest limit. PLI zero is reserved to represent the 'normal' state of a point (see section 2.1.2.10). A maximum of five limits for each counter point are allowed.

2.3.7 Section 2.1.2.16

Correct the reference to state counter at the end of the description of "End of Period Action", as shown:

Note that this element may be set to zero to indicate an action of "do nothing".

This element is only present when the state **counter runtime** is enabled.

2.3.8 Section 2.1.2.18

Add the new notes to the end of the section, as shown:

- A sampling rate of 0 is used to stop the Field Device from generating high speed sampled data from the input point. If the Field Device supports IC download of this record type then it MUST support a sampling rate of value 0, even if 0 is not listed in section 1.15.3 of the Device Profile.
- If the Field Device does not support the IC download of this record type it must still include the record in any IC file upload and in the Initial IC File supplied with the Bulk Configuration File.
- If the Field Device does not support the IC download of this record type it must reject the record with error code 60.

2.4 AN2007-001

2.4.1 Change front page as shown:

Revision 1.56

May2013November 2013

2.4.2 Add to the “Change History” as shown:

Date	Revision	WITS-DNP3 Version	Details
May 2013	1.5		Remove the requirements of DNP3 Secure Authentication version 5 for the WITS-DNP3 protocol version 1.x stream, creating version “a” of the Application Note. Introduce high speed sampled data.
November 2013	1.6		Correct the paragraphs about configuration upload in section 4.4

2.4.3 Section 4.4, 4th paragraph

Amend the paragraph as shown:

The Master Station will always upload the entire configuration of the Field Device, except when the ‘version string’ of a file in the Field Device matches the ‘version string’ within the filename of the relevant BCF file at the Master Station. Only bulk configuration files and application program files have ‘version strings’, therefore incremental configuration must always be uploaded.

When the Master Station performs a configuration upload from the Field Device it may either upload the entire configuration (BCF, Incremental Configuration, and any Application Files) or it may be selective:

- Only upload the BCF if the ‘version string’ of the file in the Field Device differs from the ‘version string’ within the filename of the relevant BCF file at the Master Station. The ‘version string’ of the file in the Field Device is determined from the WITS specific Data Attributes (see AN2005-003).
- Only upload the Incremental Configuration if the Field Device has reported a change in an IC parameter value via the Health Check Data Set (see AN2005-004).
- Only upload the Application Files if the ‘version’ of the Application differs from the ‘version’ within the filename of the relevant Application file at the Master Station. The ‘version’ of the Application in the Field Device is determined from the response to an Applications Manager Data Set enquiry requesting information about that Application.

2.4.4 Section 4.4, 7th paragraph

Add to the paragraph as shown:

When uploading a bulk configuration file, the Field Device must include enough information for the Master Station to be capable of fully reconfiguring the Field Device by downloading this file as part of the full configuration. As the uploaded bulk configuration file will contain information that is specific to a particular Field Device, this file cannot be shared between multiple Field Devices.

Whenever the Master Station uploads a BCF from the Field Device there is no explicit ‘version string’ associated with this file transfer procedure. The Master Station should assume that the uploaded BCF has a version that corresponds to the current ‘version string’ obtained from the WITS Device Attributes. Because the uploaded BCF must include details of any IC changes that have been

successfully made since the last BCF download, the most recently uploaded BCF may differ from that currently stored at the Master Station but will have the same 'version string'. The Master Station must manage the BCF version accordingly.

2.5 Device Profile

2.5.1 Device Profile Section 1.15

Add the new entry to the end of the section, as shown:

1.15.5 Supports IC record 1017 download:	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	---

Update the XML suite to implement this new Device Profile entry (see next section).

3 Changes to WITS XML suites

3.1 Corrections to version 1.4

3.1.1 Version number management

For compatibility reasons the XML version number cannot be changed, so we can only change the comment in the schema file itself:

```
<xs:annotation>
  <xs:documentation>Date Issued: 24/01/1330/11/13 Version: 1.4</xs:documentation>
</xs:annotation>
```

3.1.2 Add a new definition to the schema for “byteRange”

Create the element as shown:

```
<xs:group name="byteRange">
  <xs:choice>
    <xs:element name="fixed">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="value" type="xs:unsignedByte" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="range">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="2" maxOccurs="2" name="value" type="xs:unsignedByte" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="selectable">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="2" maxOccurs="unbounded" name="value" type="xs:unsignedByte" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="other">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="description" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:choice>
</xs:group>
```

3.1.3 Correct the “profilesType” element

Change the element as shown:

```
<xs:complexType name="profilesType">
    ..
    ..
    <xs:element name="interpolationTime">
        <xs:complexType>
            <xs:group ref="intbyteRange" />
        </xs:complexType>
    </xs:element>
</xs:sequence>
</xs:complexType>
```

3.2 Corrections to version 1.5

3.2.1 Version number management

For compatibility reasons the XML version number cannot be changed, so we can only change the comment in the schema file itself:

```
<xs:annotation>
    <xs:documentation>Date Issued: 17/05/1330/11/13 Version: 1.5</xs:documentation>
</xs:annotation>
```

3.2.2 Version 1.4 corrections

Correct version 1.5 schema as detailed in section 3.1.2 and 3.1.3 above.

3.2.3 Correct the "pointsSupportedType" element

```
<xs:complexType name="pointsSupportedType">
    <xs:choice>
        <xs:element name="all" type="noneType" />
        <xs:element name="maximum">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="1" maxOccurs="1" name="value" type="xs:unsignedIntShort" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="list">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="2" maxOccurs="unbounded" name="value" type="xs:unsignedIntShort"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="other">
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="description" type="xs:string" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:choice>
</xs:complexType>
```

3.2.4 Correct the "cycleSizeType" element

```
<xs:complexType name="cycleSizeType">  
  <xs:group ref="intshortRange" />  
</xs:complexType>
```

3.2.1 Addition of element for sampled data IC download

```
<xs:complexType name="sampledDataType">  
  <xs:sequence>  
    <xs:element name="supportSampledData" type="yesNoType" />  
    <xs:element name="pointsSupported" type="pointsSupportedType" />  
    <xs:element name="samplingRate" type="samplingRateType" />  
    <xs:element name="cycleSize" type="cycleSizeType" />  
    <xs:element name="supportIC1017Download" type="yesNoType" />  
  </xs:sequence>  
</xs:complexType>
```

4 Changes to the WITS PSA Test Specifications

Additions to the latest revisions (1.3 and 2.1) is required that includes the testing of the rejection of IC records with an “action” code of 2 or 3 when the point is assigned to DNP3 class 0.

4.1.1 Revise the Change History as shown:

Date	Revision	WITS-DNP3 Version	Details
July 2012	2.0	2.0	Updated to reflect the publication of DNP3 Secure Authentication version 5.
May 2013	1.3	1.3	Updated with tests for high speed sampled data support (TB#42.6). Removed references to DNP3 Secure Authentication version 5. Added details from TB#45.5 (section 2.6.1)
November 2013	1.3a	1.3	Updated with tests to reject IC records with “action” set to 2 or 3 if the point is assigned to DNP3 class 0. See section 2.5.11

4.1.2 Create a new test section as shown:

2.5.11 Invalid IC “Action” Requests

Purpose of tests:

To verify that incremental configuration requesting “action” 2 or 3 for a point assigned to DNP3 class 0 is rejected with error code 26. If the Field Device does not allow analogue, binary or counter points to be assigned to DNP3 class 0 then skip this section of the test specification.

References in WITS Application Notes:

Application Note	Revision	Section
AN2005-006	1.6	2.1.2.4 (Record Type 1003 – Analogue Limits) 2.1.2.5 (Record Type 1004 – Counter Limits) 2.1.2.7 (Record Type 1006 – Binary States) 2.1.2.10 (Record Type 1009 – DNP3 Object Flag Actions)

Initial conditions:

These tests require the Field Device’s configuration to include a data point for each of the following point types, if supported by the Field Device:

- Binary inputs (DNP3 object group 1)
- Double-bit binary inputs (DNP3 object group 3)
- Binary outputs (DNP3 object group 10)
- Counter inputs (DNP3 object group 20)
- Analogue inputs (DNP3 object group 30)
- Analogue outputs (DNP3 object group 40)

For each of the supported point types, these tests require a point configured as follows (these are the point whose action parameters will be modified during these tests):

Point Index	DNP3 event class
x	0
y	1, 2 or 3

Test procedures:

Test	Test procedure	Expected result	MS result	FD result
2.5.11.1	From the Master Station, use incremental configuration to modify the limits of analogue point 'x'. To do so, download and activate an incremental configuration file containing an Analogue Limits record (record type 1003). In this record, set any valid limit details but with "action" set to 1. Ensure that the details will not be the same as any existing limits in the Field Device.	The IC changes are successfully activated by the Field Device.		
		Analogue input:		
		Analogue output:		
2.5.11.2	From the Master Station, use incremental configuration to modify the limits of analogue point 'x'. To do so, download and activate an incremental configuration file containing an Analogue Limits record (record type 1003). In this record, set any valid limit details but with "action" set to 2. Ensure that the details will not be the same as any existing limits in the Field Device. When the activation request is rejected read the IC log file from the Field Device.	The IC changes are rejected by the Field Device. The IC log file shows the record has been rejected with error code 26.		
		Analogue input:		
		Analogue output:		
2.5.11.3	From the Master Station, use incremental configuration to modify the limits of analogue point 'x'. To do so, download and activate an incremental configuration file containing an Analogue Limits record (record type 1003). In this record, set any valid limit details but with "action" set to 3. Ensure that the details will not be the same as any existing limits in the Field Device. When the activation request is rejected read the IC log file from the Field Device.	The IC changes are rejected by the Field Device. The IC log file shows the record has been rejected with error code 26.		
		Analogue input:		
		Analogue output:		
2.5.11.4	From the Master Station, use incremental configuration to modify the limits of analogue point 'y'. To do so, download and activate an incremental configuration file containing an Analogue Limits record (record type 1003). In this record, set any valid limit details but with "action" set to 3. Ensure that the details will not be the same as any existing limits in the Field Device.	The IC changes are successfully activated by the Field Device.		
		Analogue input:		
		Analogue output:		

Test	Test procedure	Expected result	MS result	FD result
2.5.11.5	From the Master Station, use incremental configuration to modify the limits of counter point 'x'. To do so, download and activate an incremental configuration file containing a Counter Limits record (record type 1004). In this record, set any valid limit details but with "action" set to 1. Ensure that the details will not be the same as any existing limits in the Field Device.	The IC changes are successfully activated by the Field Device.		
2.5.11.6	From the Master Station, use incremental configuration to modify the limits of counter point 'x'. To do so, download and activate an incremental configuration file containing a Counter Limits record (record type 1004). In this record, set any valid limit details but with "action" set to 2. Ensure that the details will not be the same as any existing limits in the Field Device. When the activation request is rejected read the IC log file from the Field Device.	The IC changes are rejected by the Field Device. The IC log file shows the record has been rejected with error code 26.		
2.5.11.7	From the Master Station, use incremental configuration to modify the limits of counter point 'x'. To do so, download and activate an incremental configuration file containing a Counter Limits record (record type 1004). In this record, set any valid limit details but with "action" set to 3. Ensure that the details will not be the same as any existing limits in the Field Device. When the activation request is rejected read the IC log file from the Field Device.	The IC changes are rejected by the Field Device. The IC log file shows the record has been rejected with error code 26.		
2.5.11.8	From the Master Station, use incremental configuration to modify the limits of counter point 'y'. To do so, download and activate an incremental configuration file containing a Counter Limits record (record type 1004). In this record, set any valid limit details but with "action" set to 3. Ensure that the details will not be the same as any existing limits in the Field Device.	The IC changes are successfully activated by the Field Device.		

Test	Test procedure	Expected result	MS result	FD result
2.5.11.9	<p>From the Master Station, use incremental configuration to modify the binary states of binary point 'x'. To do so, download and activate an incremental configuration file containing a Binary States record (record type 1006). In this record, set any valid persistence details but with all "action" elements set to 1. Ensure that the details will not be the same as any existing in the Field Device.</p> <p>Perform this for each of the supported point types.</p>	<p>The IC changes are successfully activated by the Field Device.</p> <p>Binary input: Double-bit binary input: Binary output:</p>		
2.5.11.10	<p>From the Master Station, use incremental configuration to modify the binary states of binary point 'x'. To do so, download and activate an incremental configuration file containing a Binary States record (record type 1006). In this record, set any valid persistence details but with at least one "action" element set to 2, others set to 1. Ensure that the details will not be the same as any existing in the Field Device.</p> <p>When the activation request is rejected read the IC log file from the Field Device.</p> <p>Perform this for each of the supported point types.</p>	<p>The IC changes are rejected by the Field Device.</p> <p>The IC log file shows the record has been rejected with error code 26.</p> <p>Binary input: Double-bit binary input: Binary output:</p>		
2.5.11.11	<p>From the Master Station, use incremental configuration to modify the binary states of binary point 'x'. To do so, download and activate an incremental configuration file containing a Binary States record (record type 1006). In this record, set any valid persistence details but with at least one "action" element set to 3, others set to 1. Ensure that the details will not be the same as any existing in the Field Device.</p> <p>When the activation request is rejected read the IC log file from the Field Device.</p> <p>Perform this for each of the supported point types.</p>	<p>The IC changes are rejected by the Field Device.</p> <p>The IC log file shows the record has been rejected with error code 26.</p> <p>Binary input: Double-bit binary input: Binary output:</p>		

2.5.11.12	<p>From the Master Station, use incremental configuration to modify the binary states of binary point 'y'. To do so, download and activate an incremental configuration file containing a Binary States record (record type 1006). In this record, set any valid persistence details but with at least one "action" element set to 3. Ensure that the details will not be the same as any existing in the Field Device.</p> <p>Perform this for each of the supported point types.</p>	<p>The IC changes are successfully activated by the Field Device.</p> <p>Binary input:</p> <p>Double-bit binary input:</p> <p>Binary output:</p>		
2.5.11.13	<p>From the Master Station, use incremental configuration to modify the DNP3 Object Flag Actions of point 'x'. To do so, download and activate an incremental configuration file containing a DNP3 Object Flags Actions record (record type 1009). In this record, set all "action" elements to 1. Ensure that the details will not be the same as any existing details in the Field Device.</p> <p>Perform this for each of the supported point types.</p>	<p>The IC changes are successfully activated by the Field Device.</p> <p>Binary input:</p> <p>Double-bit binary input:</p> <p>Binary output:</p> <p>Counter input:</p> <p>Analogue input:</p> <p>Analogue output:</p>		
2.5.11.14	<p>From the Master Station, use incremental configuration to modify the DNP3 Object Flag Actions of point 'x'. To do so, download and activate an incremental configuration file containing a DNP3 Object Flags Actions record (record type 1009). In this record, set at least one of the "action" elements to 2, others set to 1. Ensure that the details will not be the same as any existing details in the Field Device.</p> <p>When the activation request is rejected read the IC log file from the Field Device.</p> <p>Perform this for each of the supported point types.</p>	<p>The IC changes are rejected by the Field Device.</p> <p>The IC log file shows the record has been rejected with error code 26.</p> <p>Binary input:</p> <p>Double-bit binary input:</p> <p>Binary output:</p> <p>Counter input:</p> <p>Analogue input:</p> <p>Analogue output:</p>		

2.5.11.15	<p>From the Master Station, use incremental configuration to modify the DNP3 Object Flag Actions of point 'x'. To do so, download and activate an incremental configuration file containing a DNP3 Object Flags Actions record (record type 1009). In this record, set at least one of the "action" elements to 3, others set to 1. Ensure that the details will not be the same as any existing details in the Field Device.</p> <p>When the activation request is rejected read the IC log file from the Field Device.</p> <p>Perform this for each of the supported point types.</p>	<p>The IC changes are rejected by the Field Device.</p> <p>The IC log file shows the record has been rejected with error code 26.</p> <p>Binary input:</p> <p>Double-bit binary input:</p> <p>Binary output:</p> <p>Counter input:</p> <p>Analogue input:</p> <p>Analogue output:</p>		
2.5.11.16	<p>From the Master Station, use incremental configuration to modify the DNP3 Object Flag Actions of point 'y'. To do so, download and activate an incremental configuration file containing a DNP3 Object Flags Actions record (record type 1009). In this record, set at least one of the "action" elements to 2, at least one of the actions to 3 and others set to 1. Ensure that the details will not be the same as any existing details in the Field Device.</p> <p>Perform this for each of the supported point types.</p>	<p>The IC changes are successfully activated by the Field Device.</p> <p>Binary input:</p> <p>Double-bit binary input:</p> <p>Binary output:</p> <p>Counter input:</p> <p>Analogue input:</p> <p>Analogue output:</p>		
<p>Notes:</p>				
Tested by:			Date:	