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# **Title: Corrigendum to Version 2.1.3 of the ITSO Specification**

Specification Part(s) affected by this note: TS 1000-6 (Version 2.1.3)

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## Change Control Details

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## ITSO

### Corrigendum 7 to Version 2.1.3

This Corrigendum notice identifies the corrections to the Parts as noted below:

Corrected Versions of the Specification may be identified by the indicator COR 7 which can be found on the title page under the ISBN Number.

#### **Part 6**

1/ Related to COR 4 (which corrected this particular issue in Part 5) and further analysis, the following change should have also been effected *so that the correct value for VGFormatRevision* is included in the relevant embodiment forms for Format Revision 2 with Value Record Data Groups.

Amend **Part 6** (Embodiment Specifications), **Clause 8.4**, tables 2.138 and 2.139, so that the value is corrected from 0x09 to 0x0A. The changed value for the relevant row is shown highlighted below.

##	VH	VGFormatRevision	HEX	if value group present	set to value in embodiment spec	2	1	0x0A
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2/ In clauses 6.7.12 and 6.7.13, there are two tables both numbered 112b. The table in clause 6.7.13 is renumbered 112c, and the existing table 112c in clause 6.7.14 is renumbered 112d, so as to maintain sequential table numbering.

3/ In clause 6.7.14, two "D" characters occur in the title to table 112d (was previously 112c). These should have been deleted during an earlier edit, and are deleted now.

4/ In clause 4.4.4, the second sentence of the first paragraph reads "An IPE specific creation record shall also be created and sent to the IPE owner and if appropriate the IPE owner.". The spurious text "and if appropriate the IPE owner." is deleted.

5/ The rule code for table 136, element 23 should read "1 or 2", not "1".



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6/ **TN0233** amended the Hotlist and Actionlist structure to:

- add INP
  - o this allows a blocked product to be unblocked without having to flush the product ID out of all distributed Hotlists first (which is a shortfall in all specification versions up to v2.1.2)
- add a record version number

However, following approval of **TN0233** it has been noted that HOPS and POSTs cannot distinguish between the older versions of Hotlists and Actionlists without the record version number, and later versions which contain the record version number.

To resolve this it was proposed that the header bitmap field is used to indicate that the record version number field is present.

To clarify this the following text was added by **TN0281**:

*"All new implementations shall be capable of creating Hotlists and Actionlists containing a RecordVersionNumber element. It is preferred that the RecordVersionNumber be included in the message, and it shall be excluded only where it is necessary to exclude it to maintain backwards compatibility."*

*This allows for backwards compatibility in the normal way employed in the ITSO specifications. However, the method is not foolproof.*

*Analysing the various cases we find that:*

*Case 1: if HOPS & POST are at v2.1.2, then the message is sent without RecordVersionNumber & without INP#, and all is well.*

*Case 2: if HOPS & POST are at v2.1.3, and the message is sent with RecordVersionNumber & INP#, then the POST can determine that it's a 2.1.3 version message by looking at the bit map and observing that the format version element is present, and again all is well.*

*Case 3: if the HOPS is at v2.1.3 and the POST is at v2.1.2, then the HOPS must send a v2.1.2 message without RecordVersionNumber & INP#, and again all is well. (if a v2.1.3 message is sent then the POST will misinterpret it).*



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*Case 4: if the HOPS is at v2.1.2 and the POST is at v2.1.3, then the HOPS will send the v2.1.2 message without RecordVersionNumber & INP#, and the POST will determine this from the RecordVersionNumber of the version bit in the bit map, and again all is well.*

*But:*

*Case 5: if HOPS & POST are at v2.1.3 and the message is sent with INP# but without RecordVersionNumber, then the POST cannot tell whether it's got INP# or not, and therefore cannot interpret the message.*

*The solution is that if a HOPS is at v2.1.3, then it shall either:*

- 1. send a v2.1.3 format message complete with RecordVersionNumber & INP#, or it shall*
- 2. sent a v2.1.2 format message without either RecordVersionNumber & INP#. This option shall always be adopted if the POST is at v2.1.2 or earlier.*

*Sending a message containing INP# but not RecordVersionNumber will cause the message to be misinterpreted by the POST and should not be done.*

*This Technical Note amends ITSO 1000-6, v2.1.3, to mandate this solution. It does so by creating two sections for the hotlist and actionlist search strings, one for version '0' (the original version), and the other for version 1. The Hotlist and Actionlist data are identical for both versions so a single section is retained for this part of the specification.*

*The current version of the specification, v2.1.3, shall be amended by corrigendum to reflect these changes.*

*Amend part 6, v2.1.3, as follows. Note that new text unchanged from the original is in green.*

### **5.3.3 Hotlist and Actionlist item records**

*Text omitted for clarity*

#### **5.3.3.1 Hotlist and Actionlist Search Strings Version 0**

Note that this version 0 is identical to that defined in v2.1.2 of this specification.



**Table 79 - KeyType Definitions**

KeyType	Interpretation
0	Item applies to a search for an ITSO shell.
1	List applies to a search for an IPE instance. This search shall only be used when the CFD does not support an identifiable shell
2-255	RFU

**Table 80 - KeyType 0, Header Definition**

Note that data elements from KeyType to ISRN\_CHD (the initial 8 bytes) shall be used as the ISAM search string.

Name	Format	Size	Description
Keytype	HEX	0.5	For lists of the type defined in this table, the value of this element shall be set to zero. ISAM search string element.
INS#	HEX	0.5	Shell iteration number ISAM search string element.
IIN_Index	HEX	1	See clause 6.7.10 (table 111) ISAM search string element.
ISRN_OID	OID16	2	OID extracted from ISRN ISAM search string element.
ISRN_ISSN	HEX	3.5	ISSN extracted from ISRN ISAM search string element.
ISRN_CHD	HEX	0.5	ISRN check digit ISAM search string element.
RecordLength	HEX	2	Defines the length, in native format, of the data set commencing with and including the RecordType element, and all the subsequent elements in the record, but excluding all preceding data.
RecordType	HEX	1	Defines the type of record which follows
Bitmap	BMP	2	



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**Table 81 - KeyType 1, Header Definition**

Note that data elements from KeyType to ISAM seq# (the initial 8 bytes) shall be used as the ISAM search string.

Name	Format	Size	Description
Keytype	HEX	0.5	For lists of the type defined in this table, the value of this element shall be set to one. ISAM search string element.
INP#	HEX	0.5	IPE iteration number ISAM search string element.
ISAM ID	HEX	4	ISAM identity ISAM search string element.
ISAM seq#	HEX	3	ISAM sequence number ISAM search string element.
RecordLength	HEX	2	Defines the length, in native format, of the data set commencing with and including the RecordType element, and all the subsequent elements in the record, but excluding all preceding data.
RecordType	HEX	1	Defines the type of record which follows
Bitmap	BMP	2	



**Table 82 - IPE ID Optional Additional Identification Group Definition.**

This data group shall be included when the primary search is for a Shell, and a secondary search for an IPE instance within that shell.

Name	Format	Size	Description
IPE_IIN	IIN	3	
IPE_OID	OID16	2	The value FFFF hex shall indicate a Wildcard
IPE_TYP	TYP	1	The value FF hex shall indicate a Wildcard
IPE_PTYP	PTYP	1	The value FF hex shall indicate a Wildcard
IPE_INP#	HEX	1	IPE iteration number: A 4 bit number, stored in the least significant bits of this element. The most significant bits of this element shall be set to zero (0). The value FF hex shall indicate a Wildcard
IPE_ISAMID_Creator	ISAMID	4	The value FFFFFFFF hex shall indicate a Wildcard
IPE_ISAMS#_Creator	HEX	3	The value FFFFFFF hex shall indicate a Wildcard

Great care should be taken when using Wildcards. When the target is a specific IPE then Wildcards shall not be used.

**Table 83 - Bit Map Definition**

Bit#	Data group present if bit is set
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0	IPEID
1	Hotlist
2	Actionlist
3	Action Date element
4	Action Quantity element
5	Action Amount element
6	Second Action Amount element
7	Action IPE element
8	Action new iteration number element
9-15	RFU

### 5.3.3.2 Hotlist and Actionlist Search Strings Version 1

Table 179 - KeyType Definitions

KeyType	Interpretation
0	Item applies to a search for an ITSO shell.
1	List applies to a search for an IPE instance. This search shall only be used when the CFD does not support an identifiable shell
2-255	RFU

**Table 180 - KeyType 0, Header Definition**

Note that data elements from KeyType to ISRN\_CHD (the initial 8 bytes) shall be used as the ISAM search string.

Name	Format	Size	Description
Keytype	HEX	0.5	For lists of the type defined in this table, the value of this element shall be set to zero. ISAM search string element.
INS#	HEX	0.5	Shell iteration number ISAM search string element.
IIN_Index	HEX	1	See clause 6.7.10 (table 111) ISAM search string element.
ISRN_OID	OID16	2	OID extracted from ISRN ISAM search string element.
ISRN_ISSN	HEX	3.5	ISSN extracted from ISRN ISAM search string element.
ISRN_CHD	HEX	0.5	ISRN check digit ISAM search string element.
RecordLength	HEX	2	Defines the length, in native format, of the data set commencing with and including the RecordType element, and all the subsequent elements in the record, but excluding all preceding data.
RecordType	HEX	1	Defines the type of record which follows
Bitmap	BMP	2	



**Table 181 - KeyType 1, Header Definition**

Note that data elements from KeyType to ISAM seq# (the initial 8 bytes) shall be used as the ISAM search string.

Name	Format	Size	Description
Keytype	HEX	0.5	For lists of the type defined in this table, the value of this element shall be set to one. ISAM search string element.
INP#	HEX	0.5	IPE iteration number ISAM search string element.
ISAM ID	HEX	4	ISAM identity ISAM search string element.
ISAM seq#	HEX	3	ISAM sequence number ISAM search string element.
RecordLength	HEX	2	Defines the length, in native format, of the data set commencing with and including the RecordType element, and all the subsequent elements in the record, but excluding all preceding data.
RecordType	HEX	1	Defines the type of record which follows
Bitmap	BMP	2	

**Table 182a – Record Version Number Record Definition.**

Name	Format	Size	Description
RecordVersionNumber	HEX	1	A number indicating the version of the following data. For records according to this version of the specification, this element shall be set to a value of one (1).

~~All new implementations shall be capable of creating Hotlists and Actionlists containing a RecordVersionNumber element. It is preferred that the RecordVersionNumber be included in the message, and it shall be excluded only where it is necessary to exclude it to maintain backwards compatibility.~~



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**Table 182 - IPE ID Optional Additional Identification Group Definition.**

This data group shall be included when the primary search is for a Shell, and a secondary search for an IPE instance within that shell.

Name	Format	Size	Description
IPE_IIN	IIN	3	
IPE_OID	OID16	2	The value FFFF hex shall indicate a Wildcard
IPE_TYP	TYP	1	The value FF hex shall indicate a Wildcard
IPE_PTYP	PTYP	1	The value FF hex shall indicate a Wildcard
IPE_INP#	HEX	1	IPE iteration number: A 4 bit number, stored in the least significant bits of this element. The most significant bits of this element shall be set to zero (0). The value FF hex shall indicate a Wildcard
IPE_ISAMID_Creator	ISAMID	4	The value FFFFFFFF hex shall indicate a Wildcard
IPE_ISAMS#_Creator	HEX	3	The value FFFFFFF hex shall indicate a Wildcard

Great care should be taken when using Wildcards. When the target is a specific IPE then Wildcards shall not be used.



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**Table 183 - Bit Map Definition**

<b>Bit#</b>	<b>Data group present if bit is set</b>
0	IPEID
1	Hotlist
2	Actionlist
3	Action Date element
4	Action Quantity element
5	Action Amount element
6	Second Action Amount element
7	Action IPE element
8	Action new iteration number element
9	RecordVersionNumber element
10-15	RFU

### **5.3.3.3 Hotlist and Actionlist Data Elements Versions 0 and 1**

*Include in this section the following tables and associated text: tables 84 to 96.*

~ End of Corrigendum ~