

DEC-NLPGv3.1 implementation document to support the transition to DTF7.3 v3.1 (April 2011)



Document Control

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Version History

Version	Purpose	Date
1.0	Initial Draft	02.11.10
1.1	Comments in light of revised DTF7.3 documentation	21.12.11
1.2	Comments incorporated from NS	12.01.11
1.3	Revisions from SB	13.01.11
1.4	Draft for review by LGIH, LLPG Chairs	14.01.11
1.5	Revisions after review by LGIH, LLPG Chairs	28.01.11
1.6	Revision to check 17 and typos in 37 and 38	18.02.11
1.7	Amendment to check WLPI-V13 (ID 39)	26.04.11

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1. Background

This document outlines the amendments to be made to NLPG data validation in order to support the introduction of the DEC-NLPG version 3.1 and NLPG DTF7.3 version 3.1 released by LGIH in December 2010.

LLPG Custodians will not be required to fully resynchronise their LLPGs with the NLPG in order to move from submitting DTF7.3 v2.x files to DTF7.3 v3.1 files to the NLPG Custodian. LLPG Custodians will simply need to continue their regular maintenance processes and opt to send their COU files to the NLPG Custodian in the DTF7.3 version 3.1 format once their LLPG maintenance system has been modified to support the generation of LLPG COU and Full Supply files in this format. Once the first COU file in DTF7.3 version 3.1 is submitted and accepted by the NLPG Custodian a creating authority will no longer be able to send COU files to the NLPG Custodian in DTF7.3 version 2.x.

2. Timetable

An implementation timetable was proposed by LGIH to software vendors, LLPG Custodian Regional Chairs and IA. As a result of that consultation the following timeline will need to be adhered to in terms of functionality being available within the NLPG Custodians production systems:

- The NLPG Custodian will be ready to receive a test COU or Full Supply submission from one of the systems developer user sites for the implementation of DTF7.3 v3.1 from Wednesday 1st June 2011. As soon as a single user site has successfully submitted data in DTF7.3 v3.1 to the NLPG Custodian and received confirmation from the NLPG Custodian, that software supplier will be able to progress with the switch over all of their users to DTF7.3 version 3.1.
- The NLPG Custodian will no longer receive COU or Full Supply submissions in DTF7.3 v2.x in accordance with DEC-NLPG v2.0 from Friday 30th September 2011.
- The NLPG Custodian will no longer send out NLPG COU or Full Supply data in DTF7.3 v2.1 in accordance with DEC-NLPG v2.0 from Friday 30th December 2011.

3. Data Model / Format Changes

The table below outlines the modifications to the NLPG data transfer format as a result of publishing DTF7.3 version 3.1.

Record Type	Field Name (DTF7.3 v2.1)	Change
Header	FILE_TYPE	Add new permitted value of 'X'
Header	VERSION	New value of "7.3.3.1"
Application Cross Reference	CROSS_REFERENCE	Extend field length to 50 characters <i>See Note below</i>
LPI	PAO_START_SUFFIX	Extend field length to 2 characters
LPI	PAO_END_SUFFIX	
LPI	SAO_START_SUFFIX	
LPI	SAO_END_SUFFIX	
LPI	POSTALLY_ADDRESSABLE	Field renamed to POSTAL_ADDRESS
LPI	POSTALLY_ADDRESSABLE	Add new permitted values of 'A' and 'P'
BLPU	RPA	Field renamed to RPC
BLPU	WARD_CODE	Extend field length to 10 characters
BLPU	PARISH_CODE	Extend field length to 10 characters
BLPU	BLPU_CLASS	Add new classification codes to code list: see DEC-NLPGv3.1 Appendix C section 3
LLPG Metadata	LANGUAGE	Add new permitted value of 'BIL'

Note:

It is now mandatory for certain types of Cross Reference Record to be submitted to the NLPG Custodian whilst others should be held locally. See section 8.3.1.2 of the DEC-NLPG v3.1 and Table A1 of the DTF7.3 v3.1 for further details.

4. NLPG COU validation to support DTF7.3 v3.1

The following table outlines the additional and modified NLPG validation required for all LLPG COU and Full Supply data files submitted to the NLPG Custodian.

Notes:

- i. Where the validation represents a modification to an existing validation performed then the Error Code column has been populated with the current Error Code value. For all new validations this column has been populated with 'New' and an appropriate code should be assigned during the development process.
- ii. The Error Report Text column provides the text that must be included in the COU validation report and monthly Health Check report alongside the Error Code.
- iii. The Type column indicates whether Records should be either rejected from being processed into the NLPG as they are in error (E), or processed into the NLPG but flagged with a warning (W).
- iv. The COU and HC columns indicate the action required for inclusion of the new check into the LLPG COU validation and / or the monthly Health Check validation.
- v. The Change column identifies the differences between the existing NLPG DTF7.3 (v2.x) validation and the version 3.1.
- vi. In order to undertake further synchronisation work between the NLPG Street Records and NSG Street Records some existing NSG validation checks will also be performed on the incoming LLPG COU and Full Supply data files. These checks are listed in the table below with the same Error / Compliance Check Code as presented in the NSG documentation.

ID	Error Code	Description	Error Report Text	Type	COU	HC	CHANGE
1	New	LPI pairing validation for Welsh local authorities – see DTF7.3 v3.1 LPI Record note 20 p46.	This LPI must have a corresponding other language LPI.	E	NEW	NEW	

ID	Error Code	Description	Error Report Text	Type	COU	HC	CHANGE
2	New	Warning issued for BLPV Records containing a retired BLPV_CLASS code	Warning: This BLPV Classification has been retired from circulation.	W	NEW	NEW	
3	New	Reject any COU file with FILE_TYPE of 'X'	Invalid DTF file type – Candidate Data content is not supported.	E	NEW	NEW	
4	New	Reject any LPI within an English authority that has a PAO_SUFFIX or SAO_SUFFIX with a field length >1	Addressable Object Suffix must only be 1 character in length.	E	NEW	NEW	
5	New	Reject any LLPG Metadata record from an English authority that has a LANGUAGE code of 'BIL'	Bilingual Language code cannot be used for this authority.	E	NEW	NEW	
6	New	Type 9 Streets (key words = river, canal, railway, waterway)	Warning: This Street Descriptor Record must contain reference to a railway or waterway.	W	NEW	NEW	
7	BS7666-1B VB-8, VB-8B VB-8C, VB8E	BLPV State codes (where BLPV. LOGICAL_STATUS = provisional , State can only be one of 1, 5, 6, 7; LOGICAL_STATUS = 8 state must be 4 or null)	Incompatible BLPV State Code on this Logical Status.	E	UPDATE	UPDATE	Improved Description, valid Logical Status-State Code combination updated in line with change to new DEC-NLPGv3.1

ID	Error Code	Description	Error Report Text	Type	COU	HC	CHANGE
8	S-19	Add Missing Street BLPU Validation for Open streets to COUs as a Warning.	Open Street with missing Street Only BLPU record / SOB logical status not equal to Approved Preferred.	W	NEW	No Change	
9	LPI-V2	Warning: PAO_TEXT is not equal to 'STREET RECORD'. Number Fields should not be populated.	Number Fields must not be populated for Street BLPU.	E	NEW	UPDATE	Improved Error Report Text
10	LPI-V2B	Reject incorrectly formatted PAO for Street Only BLPUs.	BLPU_CLASS is 'PS', PAO_TEXT must be equal to 'STREET RECORD'.	E	NEW	UPDATE	Improved Error Report Text
11	LPI-V2C	Reject incorrectly Classified Street Only BLPUs.	PAO indicates that this record is a Street Only BLPU, BLPU class must be 'PS'.	E/W	NEW	NO CHANGE	New Warning on COU, remain as Error on HC, updated Error Report Text
12	WSI-5	Alternative LPI permitted on Street type 4 only.	This Street can only be associated to Alternative logical status LPI Records.	E	NEW	UPDATE	Improved Error Report Text
13	VB-14	Organisation Name – key word match. Identify BLPUs that have one or a combination of any of the following text strings in the ORGANISATION Field: 'Vacant', 'Derelict', [UPRN], 'Deleted'	Organisation name keyword check.	W	NEW	UPDATE	Improved Error Report Text

ID	Error Code	Description	Error Report Text	Type	COU	HC	CHANGE
14	LPI-V17	PAO SAO – keyword match	PAO/SAO keyword check.	W	NEW	UPDATE	Improved Error Report Text
15	New	Ampersand (DEC-NLPGv3.1 section 7.3.2.5) except where the Organisation name field is populated.	Warning : Use of ampersand (&) not permitted as part of the addressable object.	W	NEW	NEW	new DEC
16	New	London Borough town / locality (DEC-NLPGv3.1 section 5.3.10.8)	Warning: locality and town values should conform to DEC-NLPGv3.1 section 5.3.7.8.	W	NEW	NEW	
17	New	BLPU Record should have organisation name where BLPU_CLASS in (CI03, CR01, CR02, CR05, CR07, CR08, CR09, CR10, CR11) – DEC-NLPGv3.1 section 6.4.4.4. This will be restricted to Approved BLPUs only and will exclude BLPUs with a State Code of 1, 4, 5, 6 and 7.	Warning: No Organisation name is present for this BLPU.	W	NEW	NEW	
18	VBI-2G	Where BLPU has RPC =4, x/y must be = STREET.START_X_COORD and STREET.START_Y_COORD (or within TOLERANCE stated in STREET Record)	BLPU coordinate must match start of street coordinates.	E	NEW	UPDATE	Improved Error Report Text
19	New	BLPU.ORGANISATION = PAO_TEXT or SAO_TEXT and PAO_ / SAO_START_NUM is not null	Warning: Addressable Object name is the same as Organisation Name.	W	NEW	NEW	
20	New	Where BLPU UPRN is associated via an	This BLPU must also be linked to	E	NEW	NEW	

ID	Error Code	Description	Error Report Text	Type	COU	HC	CHANGE
		Approved Preferred LPI to a Street type 9 record validate the existence of an alternative or other LOGICAL_STATUS LPI on the same UPRN linked to a Street type 1 or 2 Record.	a Street type 1 or 2 with another logical status LPI Record.				
21	BS7666-1B VB-8, VB-8B VB-8C, VB8E	BLPU / LPI LOGICAL_STATUS and BLPU. STATE code integrity as outlined in DEC-NLPGv3.1 section 7.3.4.6.	Incompatible Logical Status and state codes.	E	UPDATE	UPDATE	Improved Error Report Text, valid Logical Status-State Code combination updated in line with change to DTF7.3 v3.1 and DEC-NLPG v3.1.
22	LPI-V13B, LPI-V13D	Where LPI.POSTAL_ADDRESS = Y, POSTCODE and POSTTOWN must not be null.	This LPI must have both a Postcode and Posttown.	E	UPDATE	UPDATE	Improved Error Report Text
23	LPI-V13C	Where LPI.POSTAL_ADDRESS = N and LPI. LOGICAL_STATUS in (1, 3, 8, 9) POSTCODE and POSTTOWN must be null. See DTF7.3 v3.1 Table L4 p48 for permitted combinations.	This LPI must not have a Postcode or Posttown.	E	UPDATE	UPDATE	Improved Error Report Text, change to include historic and rejected LPis, Postcodes no longer permitted.
24	New	Where LPI.POSTAL_ADDRESS = A, POSTCODE and POSTTOWN must not be null.	This LPI must have both a Postcode and Posttown.	E	NEW	NEW	

ID	Error Code	Description	Error Report Text	Type	COU	HC	CHANGE
		See DTF7.3 v3.1 Table L4 p48 for permitted combinations.					
25	New	Where LPI.POSTAL_ADDRESS = P, POSTCODE must not be null. See DTF7.3 v3.1 Table L4 p48 for permitted combinations.	This LPI must have a Postcode.	E	NEW	NEW	
26	New	Where LPI.POSTAL_ADDRESS = L, POSTCODE and POSTTOWN must not be null. See DTF7.3 v3.1 Table L4 p48 for permitted combinations.	This LPI must have both a Postcode and Posttown.	E	NEW	NEW	
27	New	New Warning – LPI.LEVEL contains numeric value (see DEC-NLPGv3.1 section 7.4.4.1).	Warning: level Field contains numeric value.	W	NEW	NEW	
28	VX-2B VX-2C WVX-2B	APPLICATION_CROSS_REFERENCE.SOURCE must adhere to the format nnnnAA where nnnn is the LOCAL_CUSTODIAN_CODE and AA is a 2 character alphanumeric string.	Application Cross Reference Source Code must follow the format nnnnAA.	E	UPDATE	UPDATE	Improved Error Report Text, upgraded to an Error.
29	New	HEADER.DTF_VERSION to include '7.3.3.1' to identify that file conforms to DTF7.3 v3.1 specification. This value should be used to distinguish between existing file contents and value of 7.3 which adheres to DTF7.3 v2.1.	File content does not adhere to DTF version.	E	NEW	NEW	

ID	Error Code	Description	Error Report Text	Type	COU	HC	CHANGE
30	WSI-5	Reject – BLPUs with LOGICAL_STATUS of 1 can only be linked to Street types 1, 2 and 9.	This Approved LPI can only be linked to Street types 1, 2 or 9.	E	NEW	UPDATE	Improved Error Report Text
31	S-16	Invalid value - Street Coordinates are out of range.	Street Coordinates must be within Valid coordinate Range 5000.00, 657700.00 - 656100.00, 8000.00.	E	UPDATE	UPDATE	Improved Error Report Text, coordinate range updated in line with dtf
32	VB-9	Invalid value - BLPU coordinates are out of range.	BLPU Coordinates must be within Valid coordinate Range 5000.00, 657700.00 - 656100.00, 8000.00.	E	UPDATE	UPDATE	Improved Error Report Text, coordinate range updated in line with dtf
33	SD-9	Administrative Area must comply with rules set out in section 5.3.11 and Authority Name in Appendix B of DEC-NLPG v3.1.	Administrative Area must comply with section 5.3.11 and Appendix B of DEC-NLPG v3.1.	E	NEW	UPDATE	Improved Error Report Text, HC upgraded to Error
34	VB-18	BLPU x/y outside LA boundary.	BLPU x/y coordinate must be within LA boundary.	E	NEW	UPDATE	Improved Error Report Text, HC upgraded to Error
35	SD8	Street Descriptions with numeric value in the locality field.	Warning: Locality name contains numeric value.	W	NEW	NEW	Replication of NSG Compliance Check
36	NEW	Street Descriptor should not contain	Street Descriptor Keyword check	W	NEW	NEW	Replication of NSG

ID	Error Code	Description	Error Report Text	Type	COU	HC	CHANGE
		Keywords - Closed, Duplicate, Do not use.					Compliance Check
37	VB-13B VBI-2	Mandatory value missing - UPRN Rejected (Logical Status = 7) Candidate BLPU will not include a UPRN.	Mandatory value missing - UPRN	E	UPDATE	UPDATE	Amended to account for Candidate data
38	LPI-V1C LPI-V13L	Mandatory value missing - UPRN Rejected (Logical Status = 7) Candidate LPI will not include a UPRN.	Mandatory value missing - UPRN	E	UPDATE	UPDATE	Amended to account for Candidate data
39	WLPI-V13	SAO not present for UPRN: [10000000000] that has an Approved BLPU parent UPRN specified.	Warning: At least one Approved Preferred or Alternative or Provisional LPI (LOGICAL_STATUS= 1, 3, 6) for a Child of an Approved BLPU must contain a SAO.	W	UPDATE	NEW	Amended Logic