



OneScotland Gazetteer

Scottish Data Transfer Format 1.0 (CSV)

Document Version 1.0

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Document Responsibility

Name	Function	Organisation
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Distribution

Organisation	Name	Role
Various	Gazetteer Conventions Review Group	Review
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Referenced Documents

Reference	Title	Organisation	Date
Ref. Doc. 1	BS7666:2006 – Spatial datasets for geographical referencing, parts 0, 1, 2, 5	Bsi Technical Committee IST/36	July 2006
Ref. Doc. 2	Scottish Gazetteer Conventions Version 1.1	OneScotland Gazetteer Custodian	March 2009

Ref. Doc. 3	Data Transfer Format 7.3 Version 2.1 Specification	NLPG	February 2007
Ref. Doc. 4	Data Transfer Format 7.1 for the National Street Gazetteer	NSG	Dec 2008
Ref. Doc. 5	Data Transfer Format 6.3 Version 1.4 Specification	NLPG	June 2006
Ref. Doc. 6	RAUC(S) Advice Note 5 Version 2.10	RAUC(S)	August 2008

Revisions from document version 0.5 to document version 1.0

	Section	Revision
1	Table 1	BLPU Classification Record comments amended.
2	Table 3	Amendments to clarification notes.
3	Table 4	Statuses amended for Application Cross Reference record for file type B.
4	3.6	Relationship diagram amended for Street, Street Cross Reference, Elementary Street Unit and ESU relationships.
5	4 (Street Record)	Value changed to reference Scottish Gazetteer Conventions for STATE and STATE_DATE fields.
6	4 (Street Record)	Note 1 amended.
7	4 (Provenance Record)	PROV_KEY field added.
8	4 (BLPU Extent Polygon)	Value changed to reference BLPU EXTENT Note 1 for EXTENT_KEY.
9	4 (BLPU Extent Polygon Vertex)	Value changed to reference BLPU EXTENT Note 1 for EXTENT_KEY.
10	4 (LPI Record)	LOGICAL_STATUS field changed to Mandatory.
11	5	Implementation timetable amended.

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1 Introduction

This document details a Scottish Data Transfer Format (SDTF) specification (version 1.0) for operation with the OneScotland Gazetteer following the publication of BS 7666:2006 and the Scottish Gazetteer Conventions.

2 Data Transfer Requirements for the OneScotland Gazetteer

The OneScotland Gazetteer currently imports Corporate Address Gazetteer (CAG) data using the DTF 6.3 format developed by the National Land and Property Gazetteer (NLPG). A new OneScotland Gazetteer solution is currently being developed that will be required to import and export data in DTF 6.3, DTF 7.3 and SDTF formats. It is envisioned that SDTF 1.0 will be the primary means of transferring gazetteer data between organisations in Scotland.

A new Scotland specific data transfer format for gazetteers is required in order to reflect changes in the BS7666:2006 standard (Ref. Doc. 1) and the Scottish Gazetteer Conventions (Ref Doc 2). Where possible the specification has been written to align with the NLPG DTF 7.3 specification (Ref. Doc. 3) or the NSG DTF 7.1 specification (Ref. Doc. 4), where England & Wales and Scottish requirements allow.

This specification contains the record types, including Associated Street Data (ASD) records (types 51, 52 and 53) that are required for all aspects of street and property gazetteers in Scotland. Where possible, the ASD records (types 51, 52 and 53) have been written to align with RAUC(S) Advice Note 5 (Ref. Doc. 6).

Differences between this specification and the DTF 6.3 (Ref. Doc. 5), DTF 7.3 (Ref. Doc. 3), DTF 7.1 (Ref. Doc. 4) and the RAUC(S) Advice Note 5 (Ref. Doc. 6) specifications have been provided in this document for information along with brief explanatory notes for some data elements.

This specification makes use of a number of data items (record types or fields) that are additional to BS7666:2006 requirements. These supplementary items have been included in order to support Scottish local and OneScotland Gazetteer use. The supplementary items are summarised in table 1 below.

Allowable values for the fields defined below are contained in the Scottish Gazetteer Conventions (Ref Doc 2). Allowable values for fields not covered in the Scottish Gazetteer Conventions are specified below where required.

Table 1 Data items supplementary to BS7666:2006		
Data Item	Record Type	Comments
Application Cross Reference Record	23	Inclusion to permit multiple application cross references to be held for a BLP. U.
Successor Cross Reference Record	30	Inclusion to permit multiple successor BLP. U.s to be held against the parent BLP. U.
Organisation Record	31	Inclusion to allow multiple organisation information to be held for a property, including historic organisation records.
BLPU Classification Record	32	Inclusion of the BLP. U. classification record type is to permit multiple classification schemes to be used and retention of historic classifications.
CHANGE_TYPE	All (except 10, 29, 99)	Indicator of how a gazetteer record is to be modified in a composite or alternative gazetteer or application.
PRO_ORDER	All (except 10, 29, 99)	Sequential processing order value used to determine in which order gazetteer records should logically be processed.
PARENT_UPRN	21	Permits the explicit statement of hierarchical relationships between BLP. U.s.
PROV_KEY	22	Unique identifier used in the recording of provenance records.
XREF_KEY	23	Unique identifier used in the recording of BLP. U. application cross-reference records.
LPI_KEY	24	Unique identifier used in the recording of LPI application cross-reference records.

Table 1 Data items supplementary to BS7666:2006		
Data Item	Record Type	Comments
POSTALLY_ADDRESSABLE	24	Flag to indicate whether a LPI is a postal address.
POST_TOWN	24	Identifies the post town for a LPI.
SUB_LOCALITY	24	Textual identifier for a 3 rd level of geographic area to be assigned to a LPI.
EXTENT_KEY	25	Unique identifier used in the recording of BLPU extent records.
SUCC_KEY	30	Unique identifier used in the recording of BLPU successor cross-reference records.
ORG_KEY	31	Unique identifier used in the recording of BLPU organisation records.
CLASS_KEY	32	Unique identifier used in the recording of BLPU classification records.

3 Data Format

In each of the records all data items (fields) listed in this specification will be included in the order that they occur in the relevant record definition. Each field shall be separated from the previous one by a comma.

All fields in each of the records are defined using one of the following data types in table 2.

Table 2 Data types		
Data Type	Format	Comments
Date	CCYY-MM-DD	All dates shall be recorded consistently in the extended format defined in BS ISO 8601
Time	HHMMSS	The basic 24 hour clock format is used as defined in BS ISO 8601
Number (N)	May contain any positive or negative numeric value	Fields do not need leading zero(s) and they will be ignored if present. Fields must not have thousands separators.
Text (T)	All text fields will be enclosed in double quotes	The double quotes will be ignored as part of the text.

All fields specified as mandatory (Man) must contain data. For other fields the inclusion of data is either optional (Opt) or conditional (Con).

Where a field has no value in a record, two commas must be placed together in the record (one to end the previous field and the second to end the null field). Where the null field is a text field double quotation marks should be included between the two commas, i.e. ,"" ,

3.1 Transfer File Name

Files should be named using the following format:

[CUSTODIAN_CODE]_[CCYYMMDD]_[FILE_TYPE]_[VOLUME_NUMBER]

e.g. 9078_20090305_A_01.csv

3.2 Transfer File Format

Gazetteer data will be transferred using a Unicode character set (UTF-8) including ISO-8859-14 (Gaelic Scottish characters) as a Comma Separated Value (CSV) transfer set. This transfer set

will normally be a single file. However, the data transfer set can be split into multiple files using volume numbers, if required. A header record (10) and trailer record (99) must be included in each volume. It is recommended that SDTF records be transferred using proper case in text fields.

Each transfer set will contain a number of different record types. The required record types for each type of file are detailed below in section 3.4. The composition of the records is described in section 4.

The first field in each of these records will be a record identifier, which will determine the content and format of the remainder of the physical record.

There will be one record per line in each file. No comma will be placed at the end of each row in the file.

3.3 Record Order

All files will contain a HEADER and TRAILER record as the first and last record in the file respectively, and the GAZETTEER METADATA record as the penultimate record. The order of all other records within each file is unimportant for full property gazetteer or street gazetteer data files but a running serial number will be added to all records other than the HEADER, GAZETTEER METADATA and TRAILER within a volume to indicate the order of record processing for change only update volumes.

Where multiple volumes constitute a single transfer set the volumes will be processed in order according to the volume number in the header record.

3.4 File Types

Table 3 below details the file types that will or may be required for the OneScotland Gazetteer. There may be a need to revise this list as future requirements for data transfer arise.

TABLE 3 Transfer File Types		
Code	FILE_TYPE*	FULL/CHANGE ONLY
A	Property Gazetteer (Streets and Properties)	Full
B	Property Gazetteer (Streets and Properties)**	Change Only
C	Street Gazetteer	Full
D	Street Gazetteer***	Change Only
E	Street Gazetteer and Associated Street Data	Full

TABLE 3 Transfer File Types		
Code	FILE_TYPE*	FULL/CHANGE ONLY
F	Street Gazetteer and Associated Street Data***	Change Only
G	Associated Street Data	Full
H	Associated Street Data***	Change Only

* Gazetteer file types should only contain the highest level available for each street.

** File type B should include any changes to record types 11 and 15. Changes to record types 12, 13 and 14 are optional.

*** File types that include change only streets (file types D, F and H) have been included as “reserved” file types for future use and should not be implemented yet.

3.5 Required Records

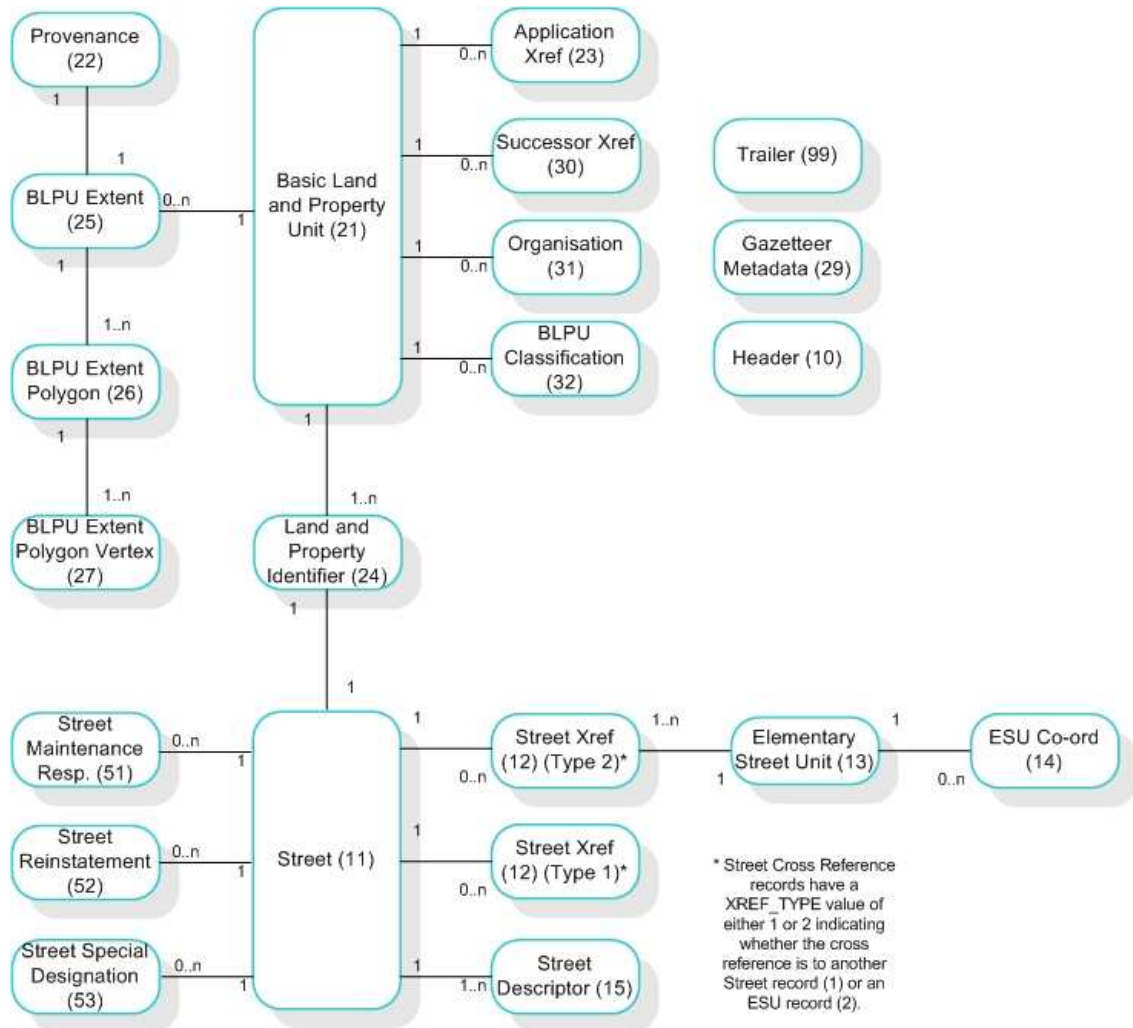
The HEADER, TRAILER and GAZETTEER METADATA records are compulsory for all transfer sets. Table 4 below indicates whether each record type is mandatory (M), optional (O), conditional (C) or not allowed (NA) for each of the file types listed in table 3.

TABLE 4 Required Records										
		File Type								
Record Type	Record Description	A	B	C	D	E	F	G	H	
10	Header	M	M	M	M	M	M	M	M	
11	Street Record	M	C	M	C	M	C	NA	NA	
12	Street Cross Reference	O	O	C	C	C	C	NA	NA	
13	Elementary Street Unit	O	O	C	C	C	C	NA	NA	
14	ESU Co-ordinate	O	O	C	C	C	C	NA	NA	
15	Street Descriptor	M	C	M	C	M	C	NA	NA	
21	Basic Land and Property Unit	M	C	NA	NA	NA	NA	NA	NA	
22	Provenance	C	C	NA	NA	NA	NA	NA	NA	
23	Application Cross Reference	O	C	NA	NA	NA	NA	NA	NA	

TABLE 4 Required Records									
Record Type	Record Description	File Type							
		A	B	C	D	E	F	G	H
24	Land and Property Identifier	M	C	NA	NA	NA	NA	NA	NA
25	BLPU Extent	O	C	NA	NA	NA	NA	NA	NA
26	BLPU Extent Polygon	C	C	NA	NA	NA	NA	NA	NA
27	BLPU Polygon Vertex	C	C	NA	NA	NA	NA	NA	NA
29	Gazetteer Metadata	M	M	M	M	M	M	M	M
30	Successor Cross Reference	O	C	NA	NA	NA	NA	NA	NA
31	Organisation	O	C	NA	NA	NA	NA	NA	NA
32	BLPU Classification	O	C	NA	NA	NA	NA	NA	NA
51	Street Maintenance Responsibility	NA	NA	NA	NA	M	C	M	C
52	Street Reinstatement Category	NA	NA	NA	NA	M	C	M	C
53	Street Special Designation	NA	NA	NA	NA	M	C	M	C
99	Trailer	M	M	M	M	M	M	M	M

3.6 Relationships

Figure 1 provides a representation of the relationships between the record types specified in this document.



4 Record Types

HEADER (10)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a header record	N 2	10	Man
CUSTODIAN_NAME	Name of data provider organisation	T 40		Man
CUSTODIAN_CODE	Unique identifier for the data provider code	N 4		Man
PROCESS_DATE	The date when the gazetteer transfer set was created	Date		Man
VOLUME_NUMBER	The sequential number of the volume in the transfer set	N 2		Man
ENTRY_DATE	Date of file creation	Date		Man
TIME_STAMP	The time of file creation	Time	000000-235959	Man
DTF_VERSION	Version number of the DTF specification used	N 2.1	1.0	Man
FILE_TYPE	Code defining file type and content	T 1	Table 3	Man

Record Example

10,"Stirling Council",9078,2008-12-12,1,2008-12-12,163030,1.0,"A"

Differences From DTF 6.3

1. Addition of FILE_TYPE field to indicate the type of file supplied, see table 3.

Differences From NLPG DTF 7.3

1. Value for DTF_VERSION changed.
2. LOCAL_CUSTODIAN_CODE renamed CUSTODIAN_CODE.

Differences From RAUC(S) Advice Note 5

1. ASD_AUTHORITY_NAME changed to CUSTODIAN_NAME.
2. ASD_AUTHORITY_CODE changed to CUSTODIAN_CODE.

STREET (11)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a street record	N 2	11	Man
CHANGE_TYPE	Type of record change	T 1	Table S1	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
USRN	Unique street reference number	N 8		Man
RECORD_TYPE	Street type	N 1	Ref Doc 2	Man
CUSTODIAN_CODE	Roads authority code	N 4		Man
STATE	A code identifying the current state of the street	N 1	Ref Doc 2	Opt
STATE_DATE	Date at which the street achieved its current state in the real-world	Date	Ref Doc 2	Con
STREET_CLASSIFICATION	A code for the primary classification of the street	N 1	Note 1	Opt
ENTRY_DATE	The date that the record was entered into the LSG	Date		Man
LAST_UPDATE_DATE	Date this record was last updated	Date		Man
START_DATE	The date on which the street started to exist in the real world	Date		Man
END_DATE	The date on which the street ceased to exist.	Date		Con
START_X	The easting coordinate of the start point of the street	N 7.2		Man
START_Y	The northing coordinate of the start point of the street	N 7.2		Man

STREET (11)				
Field	Description	Type	Value	Status
END_X	The easting coordinate of the end point of the street	N 7.2		Man
END_Y	The northing coordinate of the end point of the street	N 7.2		Man

Record Example

11,"I",1,32000000,1,9078,,,,,2007-10-08,2008-12-12,2007-10-08,,279142.00,694583.00,279242.00,694593.00

Differences From DTF 6.3

1. STREET_DESCRIPTOR, LOCALITY_NAME, TOWN_NAME and ADMINISTRATIVE AREA removed to new type 15 record.
2. ALIAS_STREET_DESCRIPTOR removed.
3. Field order changed.
4. STREET_ENTRY_DATE renamed ENTRY_DATE
5. Street closure date renamed END_DATE.
6. LAST_UPDATE_DATE added.
7. RELEASE_NUMBER removed.
8. RELEASE_DATE removed.
9. START_DATE added.
10. STREET_END_DATE renamed END_DATE.
11. STREET_START_X renamed START_X
12. STREET_START_Y renamed START_Y
13. STREET_END_X renamed END_X
14. STREET_END_Y renamed END_Y

Differences From NLPG DTF 7.1

1. SWA_ORG_REF_NAMING renamed CUSTODIAN_CODE.

2. STREET_SURFACE not included.
3. STREET_VERSION_NUMBER not included.
4. STREET_TOLERANCE not included.
5. RECORD_ENTRY_DATE renamed ENTRY_DATE
6. STREET_END_DATE renamed END_DATE.
7. STREET_START_X renamed START_X
8. STREET_START_Y renamed START_Y
9. STREET_END_X renamed END_X
10. STREET_END_Y renamed END_Y

Notes

1. There is no current requirement for the STREET_CLASSIFICATION field in Scotland, however this field is included in the specification for possible future use.

TABLE S1 Change types	
Code	CHANGE_TYPE
I	Insert
U	Update
D	Delete

STREET CROSS REFERENCE (12)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a street cross reference record	N 2	12	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
USRN	Unique street reference number	N 8		Man
XREF_TYPE	Indicates the type of record that is cross-referenced	N 1	<i>Table S2</i>	Man
XREF_ID	Cross-reference to other representations of the street or to the ESUs of the street	N 14		Man
ENTRY_DATE	Date of data entry	Date		Man
START_DATE	Date this street cross reference created	Date		Man
END_DATE	Date of the end of this cross reference	Date		Con
LAST_UPDATE_DATE	Date this record was last updated	Date		Man

Record Example

12,"I",2,32000000,1,320000039,2006-01-01,2006-01-01,,2006-01-01

Differences From DTF 6.3

1. Field order changed

Differences From NLPG DTF 7.1

1. USRN_VERSION_NUMBER not included.
2. XREF_VERSION_NUMBER not included.
3. START_DATE included.
4. END_DATE included.

5. LAST_UPDATE_DATE included.

TABLE S2 Street Cross Reference Types	
Code	XREF_TYPE
1	Street
2	ESU

ELEMENTARY STREET UNIT (13)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as an elementary street unit record	N 2	13	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
ESUID	A unique identifier for the ESU.	N 14	<i>See Ref. Doc. 2</i>	Man
LAST_UPDATE_DATE	Date this record was last updated	Date		Man
END_DATE	The date on which the street was closed or a new version replaced the record	Date		Con
NUM_COORD	The total number of coordinates that defines the street's geometry	N 5	1-99999	Man
START_X	The easting coordinate of the start point of the ESU	N 7.2		Man
START_Y	The northing coordinate of the start point of the ESU	N 7.2		Man
END_X	The easting coordinate of the end point of the ESU	N 7.2		Man
END_Y	The northing coordinate of the end point of the ESU	N 7.2		Man
ENTRY_DATE	Date of data entry	Date		Man
START_DATE	Date that this record was created in the real world or planned to start.	Date		Man

Record Example

13,"I",11,12345678910112,2006-01-01,,125,279142.00,694583.00,27922.00,694600.00,2006-01-01,2006-01-01

Differences From DTF 6.3

1. Field order changed
2. ESU_VERSION_NUMBER not included.
3. ESU_START_DATE added.

Differences From NLPG DTF 7.1

1. ESU_VERSION_NUMBER not included.
2. ESU_TOLERANCE not included.
3. ESU_DIRECTION not included.
4. ESU_LAST_UPDATE_DATE renamed LAST_UPDATE_DATE.
5. ESU_END_DATE renamed END_DATE.
6. ESU_START_X renamed START_X
7. ESU_START_Y renamed START_Y
8. ESU_END_X renamed END_X
9. ESU_END_Y renamed END_Y
10. ESU_ENTRY_DATE renamed ENTRY_DATE
11. ESU_START_DATE renamed START_DATE
12. ESU_ID type changed.

ESU COORDINATE (14)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as an ESU coordinate record	N 2	14	Man
CHANGE_TYPE	Type of record change	T 1	Table S1	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
ESUID	A unique identifier for the ESU.	N 14	Ref. Doc. 2	Man
COORD_NUMBER	Sequential counter of the coordinates for an ESU. Indicator as to the order of the coordinates for an ESU	N 5	2-99999	Man
X_COORDINATE	The easting coordinate of an intermediate point of the ESU	N 7.2		Man
Y_COORDINATE	The northing coordinate of an intermediate point on the ESU	N 7.2		Man
ENTRY_DATE	Date of data entry	Date		Man
END_DATE	Date of end of this ESU coordinate	Date		Con
LAST_UPDATE_DATE	Date record last updated	Date		Man

Record Example

14,"I",12,12345678910112,45,279143.00,694584.00,2006-01-01,,2006-01-01

Differences From DTF 6.3

1. Field order changed
2. ESU_VERSION_NUMBER removed.

Differences From DTF 7.1

1. ESU_VERSION_NUMBER not included.
2. ESU_X_COORD renamed X_COORDINATE

3. ESU_Y_COORD renamed Y_COORDINATE
4. END_DATE included.
5. LAST_UPDATE_DATE included.

STREET DESCRIPTOR (15)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a street descriptor record	N 2	15	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
USRN	Unique street reference number	N 8		Man
DESCRIPTOR	Name, description or street number	T 100		Man
LOCALITY	Locality name	T 35	<i>Ref Doc 2</i>	Opt
TOWN	Town name	T 30	<i>Ref Doc 2</i>	Opt
ADMINISTRATIVE_AREA	Local Authority name	T 30	<i>Ref Doc 2</i>	Man
LANGUAGE	A code identifying the language used for the descriptive identifier	T 3	<i>Ref Doc 2</i>	Man

Record Example

15,"I",3,32000000,"Main Street",,"","Bridge of Allan","Stirling","ENG"

Differences From DTF 6.3

1. New record type added to hold street descriptor information and allow for multiple entries based on multiple official languages where appropriate.

Differences From NLPG DTF 7.1

1. LOCALITY_NAME field status now optional.
2. TOWN_NAME field status now optional.
3. ADMINISTRATIVE_AREA description changed.
4. STREET_DESCRIPTOR renamed DESCRIPTOR.
5. LOCALITY_NAME renamed LOCALITY.
6. TOWN_NAME renamed TOWN.

BASIC LAND AND PROPERTY UNIT (21)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a basic land and property unit record	N 2	21	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
UPRN	Unique property reference number	N 12		Man
LOGICAL_STATUS	Logical status of BLPU	N 1	<i>Ref Doc 2</i>	Man
BLPU_STATE	A code identifying the state of the BLPU	N 1	<i>Ref Doc 2</i>	Con
BLPU_STATE_DATE	Date at which the BLPU achieved its current state in the real world	Date		Con
PARENT_UPRN	UPRN of parent record	N 12	<i>Ref Doc 2</i>	Opt
X_COORDINATE	The easting co-ordinate of the of the BLPU	T 7.2		Man
Y_COORDINATE	The northing co-ordinate of the of the BLPU	T 7.2		Man
RPC	Representative Point Code	N 1	<i>Ref Doc 2</i>	Man
CUSTODIAN_CODE	Unique identifier of the local custodian	N 4		Man
START_DATE	Date on which this BLPU was defined	Date		Man
END_DATE	Date on which this BLPU 's logical status changed to historic or rejected.	Date		Con
LAST_UPDATE_DATE	Date this record was last updated	Date		Man
ENTRY_DATE	Date of data entry	Date		Man

Record Example

21,"I",4,12200000,1,,,,,279142.00,694583.00,1,9078,2008-12-11,,2008-12-11,2008-12-11

Differences From DTF 6.3

1. Field order changed
2. Addition of BLPU_STATE field
3. Addition of BLPU_STATE_DATE field
4. Addition of PARENT_UPRN field

Differences From NLPG DTF 7.3

1. ORGANISATION not included.
2. BLPU_CLASS not included.
3. WARD_CODE not included.
4. PARISH_CODE not included.
5. CUSTODIAN_ONE not included.
6. CUSTODIAN_TWO not included.
7. CAN_KEY not included.
8. PARENT_UPRN field status optional.
9. END_DATE field status conditional.
10. RPA renamed RPC.
11. LOCAL_CUSTODIAN_CODE renamed CUSTODIAN_CODE.

PROVENANCE (22)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a provenance record	N 2	22	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
UPRN	Unique property reference number	N 12		Man
PROV_KEY	Key value to uniquely identify the application provenance record	T 14	<i>Note 1</i>	Con
EXTENT_KEY	Foreign Key to BLPU EXTENT record	T 14	<i>See BLPU EXTENT Note 1</i>	Con
PROVENANCE_CODE	Identifies the BLPU Provenance Extent derivation	T 1		Man
ANNOTATION	Supplementary information to support the PROVENANCE_CODE	T 30		Opt
ENTRY_DATE	Date of data entry	Date		Man
START_DATE	Date of start of this provenance	Date		Man
END_DATE	Date of end of this provenance	Date		Con
LAST_UPDATE_DATE	Date this record was last updated	Date		Man

Record Example

22,"I",5,12200000,"9078P000000001","9078E000000001","P","",2005-12-01,2005-11-29,,2008-12-12

Differences From DTF 6.3

1. Field order changed.
2. Addition of EXTENT_KEY field.

Differences From NLPG DTF 7.3

1. END_DATE field conditional.

Notes

2. THE PROV_KEY shall be an identifier according to the following convention:

nnnnPssssssss

Where: nnnn = the CUSTODIAN_CODE of the gazetteer administrative area

P is the identifier for the provenance record type

ssssssss is the sequence number associated with the cross-reference record
padded with leading zeros as required.

The sequence number shall be incremented with the addition or creation of each provenance record in the gazetteer. Where a provenance record is deleted from the gazetteer the sequence number shall not be reused. Similarly any “gaps” in sequence number must not be filled.

APPLICATION CROSS REFERENCE (23)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as an application cross reference record	N 2	23	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
UPRN	Unique property reference number	N 12		Man
XREF_KEY	Key value to uniquely identify the application cross reference record	T 14	<i>Note 1</i>	Con
START_DATE	Date this application cross reference originated	Date		Man
LAST_UPDATE_DATE	Date this record was last updated	Date		Man
ENTRY_DATE	Date of data entry	Date		Man
END_DATE	The date on which the external cross reference ceased to exist	Date		Opt
CROSS_REFERENCE	Primary key of corresponding record in an external dataset	T 20		Man
SOURCE	External dataset identity	T 6	<i>Note 2</i>	Man

Record Example

23,"I",6,12200000,"9078X000000001",2006-10-10,2006-10-16,2007-01-23,,"123456789","9078CT"

Changes From DTF 6.3

1. Field order changed.
2. SOURCE format changed
3. Addition of XREF_KEY field.
4. Addition of END_DATE field.

Notes

1. THE XREF_KEY shall be an identifier according to the following convention:

nnnnXssssssss

Where: nnnn = the CUSTODIAN_CODE of the gazetteer administrative area

X is the identifier for the cross-reference record type

ssssssss is the sequence number associated with the cross-reference record padded with leading zeros as required.

The sequence number shall be incremented with the addition or creation of each cross-reference record in the gazetteer. Where a cross-reference record is deleted from the gazetteer the sequence number shall not be reused. Similarly any “gaps” in sequence number must not be filled.

2. Source should now comprise of the local custodian code as defined in the BLPD record followed by a two-character code defined locally.

LAND AND PROPERTY IDENTIFIER (24)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a land and property identifier record	N 2	24	Man
CHANGE_TYPE	Type of record change	T 1	Table S1	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
UPRN	Unique property reference number	N 12		Man
LPI_KEY	Unique key for the LPI	T 14	Ref Doc 2	Con
LANGUAGE	A code identifying the language used for the descriptive identifier	T 3	Ref Doc 2	Man
LOGICAL_STATUS	Logical status of LPI	N 1	Ref Doc 2	Man
START_DATE	Date this record created	Date		Man
END_DATE	Date on which this LPI ceased to exist or became a rejected record.	Date		Con
ENTRY_DATE	Date of data entry	Date		Man
LAST_UPDATE_DATE	Date this record was last changed	Date		Man
SAO_START_NUMBER	Secondary addressable object start number	N 4		Opt
SAO_START_SUFFIX	Secondary addressable object start suffix	T 1		Opt
SAO_END_NUMBER	Secondary addressable object end number	N 4		Opt
SAO_END_SUFFIX	Secondary addressable object end suffix	T 1		Opt

LAND AND PROPERTY IDENTIFIER (24)				
Field	Description	Type	Value	Status
SAO_TEXT	Secondary addressable object name description	T 90		Opt
PAO_START_NUMBER	Primary addressable object start number	N 4	<i>Note 1</i>	Con
PAO_START_SUFFIX	Primary addressable object start suffix	T 1		Opt
PAO_END_NUMBER	Primary addressable object end number	N 4		Opt
PAO_END_SUFFIX	Primary addressable object end suffix	T 1		Opt
PAO_TEXT	Primary addressable object name description	T 90	<i>Note 1</i>	Con
USRN	Unique street reference number	N 8		Man
SUB_LOCALITY	Third level of geographic area name. e.g. to record an island name or property group.	T 35	<i>Ref Doc 2</i>	Opt
LEVEL	Code describing vertical position of BLPU	N 2.1	<i>Ref Doc 2</i>	Con
POSTALLY_ADDRESSABLE	Flag to indicate that BLPU receives a delivery from the Royal Mail or other postal delivery service	T1	<i>Ref Doc 2</i>	Man
POSTCODE	Code allocated by the Royal Mail to assist in delivery of mail	T 8	<i>Ref Doc 2</i>	Con
POST_TOWN	Postal town allocated by the Royal Mail to assist in the delivery of mail	T 30	<i>Ref Doc 2</i>	Con

LAND AND PROPERTY IDENTIFIER (24)				
Field	Description	Type	Value	Status
OFFICIAL_FLAG	Status of address	T 1	Ref Doc 2	Con

Record Example

24,"I",7,12200000,"9078L000000001","ENG",1,2008-11-11,,2008-12-12,2008-12-13,,,"",10,,,"Drummond House",38000001,,"O","Y","FK8 2DY","STIRLING","

Differences From DTF 6.3

1. Field order changed.
2. Previously defined parts of SAO and PAO are now held as separate entities.
3. Addition of POSTALLY_ADDRESSABLE field.
4. Removal LPI logical status 2, replaced by addition of LANGUAGE field.
5. Addition of LPI_KEY field.
6. Additional of SUB_LOCALITY field.

Differences From NLPG DTF 7.3

1. CUSTODIAN_ONE not included.
2. CUSTODIAN_TWO not included.
3. CAN_KEY not included.
4. LEVEL description changed.
5. LEVEL type changed.
6. SUB_LOCALITY field included.

Notes

1. At least one of the following fields must be present in each LPI record:
PAO_START_NUMBER or PAO_TEXT.

BLPU EXTENT (25)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a BLPU extent record	N 2	25	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
UPRN	Unique property reference number	N 12		Man
EXTENT_KEY	Unique key for the BLPU Extent record	T14	<i>Note 1</i>	Con
START_DATE	Date this record created	Date		Man
END_DATE	Date this record ceased to exist	Date		Opt
ENTRY_DATE	Date of data entry	Date		Man
LAST_UPDATE_DATE	Date this record was last changed	Date		Man
SOURCE_DATE	Date of the source of the BLPU extent data	Date		Man
SOURCE_DESCRIPTION	Source and/or relevance of the data representing the BLPU	T 30		Man

Record Example

25,"I",8,12200000,"9078E000000001,2008-12-10,,2008-12-15,2008-12-18,2008-10-04,"Asset Register"

Differences From DTF 6.3

1. Field order changed

Differences From DTF 7.3

1. PROVENANCE_CODE not included.
2. EXTENT_KEY added.

Notes

1. THE EXTENT_KEY shall be an identifier according to the following convention:

nnnnEssssssss

Where: nnnn = the CUSTODIAN_CODE of the gazetteer administrative area

E is the identifier for the cross-reference record type

ssssssss is the sequence number associated with the cross-reference record
padded with leading zeros as required.

The sequence number shall be incremented with the addition or creation of each cross-reference record in the gazetteer. Where a cross-reference record is deleted from the gazetteer the sequence number shall not be reused. Similarly any "gaps" in sequence number must not be filled.

BLPU EXTENT POLYGON (26)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a BLPU extent polygon record	N 2	26	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
UPRN	Unique property reference number	N 12		Man
START_DATE	Date this record created	Date		Man
END_DATE	Date this record ceased to exist	Date		Opt
ENTRY_DATE	Date of data entry	Date		Man
EXTENT_KEY	Foreign Key to BLPU EXTENT record	T 14	<i>See BLPU EXTENT Note 1</i>	Man
POLYGON_NUMBER	Number that uniquely identifier the polygon within those representing the BLPU extent	N 2	<i>1-99</i>	Man
POLYGON_TYPE	Whether the polygon is included or excluded from the BLPU extent	T 1	<i>H or blank</i>	Man
EXTERNAL_POLYGON_IDENTIFIER	Unique identifier of the discrete real world topographic feature held within a GIS	N 20		Opt
VERTEX_COUNT	Number of vertices described by ordered coordinate pairs, including coincident start and finish vertices	N 16		Opt
LAST_UPDATE_DATE	Date this record was last changed	Date		Man

Record Example

26,"I",9,12200000,2007-01-01,,2007-05-05,"9078E000000001",1,"H",,4,2007-05-05

Differences From DTF 6.3

1. Field order changed.

Differences From DTF 7.3

1. PROVENANCE_CODE not included.
2. EXTENT_KEY added

BLPU EXTENT POLYGON VERTEX (27)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a BLPU extent polygon vertex record	N 2	27	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
UPRN	Unique property reference number	N 12		Man
EXTENT_KEY	Foreign Key to BLPU EXTENT record	T 14	See <i>BLPU EXTENT Note 1</i>	Man
POLYGON_NUMBER	Number that uniquely identifies the polygon within those representing the BLPU extent	N 2	1-99	Man
VERTEX_ORDER	Sequential counter which indicated the order of the vertices forming the BLPU polygon	N 16		Man
X_COORDINATE	The easting value of the vertex	N 7.2		Man
Y_COORDINATE	The northing value of the vertex	N 7.2		Man

Record Example

27,"I",10,12200000,"9078E000000001",1,1,279140.00,694580.00

Differences From DTF 6.3

1. Field order changed.

Differences From NLPG DTF 7.3

1. POLY_X_COORD renamed X_COORDINATE.
2. POLY_Y_COORD renamed Y_COORDINATE.
3. X_COORDINATE type changed.

4. Y_COORDINATE type changed.
5. PROVENANCE_CODE not included.
6. EXTENT_KEY added.

GAZETTEER METADATA (29)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a gazetteer metadata record	N 2	29	Man
GAZ_NAME	Name of the Gazetteer	T 60	<i>Ref Doc 2</i>	Man
GAZ_SCOPE	Description of the content of the gazetteer.	T 60	<i>Ref Doc 2</i>	Man
TER_OF_USE	Geographic domain of the gazetteer.	T 60	<i>Ref Doc 2</i>	Man
GAZ_OWNER	Organisation with overall responsibility for the gazetteer.	T 60	<i>Ref Doc 2</i>	Man
CUSTODIAN_NAME	CAG or LSG custodian contact email.	T 40	<i>Ref Doc 2</i>	Man
CUSTODIAN_CODE	Gazetteer custodian code	N 4		Man
CO_ORD_SYSTEM	Coordinate reference system used in the gazetteer to describe position	T 40	<i>Ref Doc 2</i>	Man
CO_ORD_UNIT	The unit of measurement used by the coordinate reference system.	T 10	<i>Ref Doc 2</i>	Man
META_DATE	Date metadata last updated	Date		Man
CLASS_SCHEME	Classification scheme(s) used, e.g. Scottish Gazetteer Conventions v1.0	T 60		Man
STATE_CODE_SCHEME	Classification scheme used for the BLPU State Code field, e.g. Scottish Gazetteer Conventions v1.0	T 40		Man
GAZ_DATE	Date at which the gazetteer can be considered to be current	Date		Man
LANGUAGE	Default language used for descriptors within the gazetteer	T 3	<i>Ref Doc 2</i>	Man

GAZETTEER METADATA (29)				
Field	Description	Type	Value	Status
CHARACTER_SET	The character set used for data items in the gazetteer, e.g. English or Gaelic	T 30		Man

Record Example

29,"Local Property Gazetteer","Properties as defined in the Scottish Gazetteer Conventions","Falkirk","Falkirk Council","cag@falkirk.gov.uk",9065,"British National Grid","Metres",2008-12-10,"Scottish Gazetteer Conventions v1.0","Scottish Gazetteer Conventions v1.0",2008-12-10,"ENG","English"

Differences From DTF 6.3

1. Previously known as local custodian record.

Differences From NLPG DTF 7.3

1. LINKED_DATA field not included.
2. NGAZ_FREQ field not included.
3. CUSTODIAN_UPRN field not included.
4. STATE_CODE_SCHEME field added.
5. CUSTODIAN_NAME description changed.
6. CHARACTER_SET description added.

Notes

1. Metadata is provided with each gazetteer transfer file, even if the metadata has not changed since the last file.

SUCCESSOR CROSS REFERENCE (30)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as an successor cross reference record	N 2	30	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
UPRN	Unique property reference number	N 12		Man
SUCC_KEY	Key value to uniquely identify the successor cross reference record	T 14	<i>Ref. Doc</i> 2	Con
START_DATE	Date this successor cross reference originated	Date		Man
LAST_UPDATE_DATE	Date this record was last updated	Date		Man
ENTRY_DATE	Date of data entry	Date		Man
END_DATE	The date on which the successor cross reference ceased to exist	Date		Opt
SUCCESSOR	UPRN of successor BLPU	N 12		Man

Record Example

30,"I",7,12200000,"9078S000000001",2006-10-10,2006-10-10,2006-10-10,,"12200001"

Differences From DTF 6.3 & 7.3

1. This is new record type to allow successor information to be retained for historicised properties.

Notes

1. Multiple successor cross reference records can be held for a single BLPU, e.g. where a property has been split into multiple new properties.

ORGANISATION (31)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as an organisation record	N 2	31	Man
CHANGE_TYPE	Type of record change	T 1	Table S1	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
UPRN	Unique property reference number	N 12		Man
ORG_KEY	Unique key for the organisation record	T 14	Ref. Doc. 2	Con
ORGANISATION	Trading name used by organisation at the property	T 60		Man
LEGAL_NAME	Registered legal name of organisation	T 60		Opt
START_DATE	Date this record or version created	Date		Man
END_DATE	Date on which this organisation ceased to occupy the property	Date		Con
ENTRY_DATE	Date of data entry	Date		Man
LAST_UPDATE_DATE	Date this record was last changed	Date		Man

Record Example

31,"I",17,12200000,"9078O000000001","Forth Valley GIS","Forth Valley GIS Ltd",2008-10-30,,2008-10-30,2008-10-30

Differences From DTF 6.3 & 7.3

1. This is new record type to allow current and historical organisation to be held for a property.

BLPU_CLASSIFICATION (32)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a BLPU classification record	N 2	32	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
UPRN	Unique property reference number	N 12		Man
CLASS_KEY	Unique key for the BLPU classification record	T 14	<i>Ref Doc 2</i>	Con
CLASS_SCHEME	The classification scheme used for this record.	T 60		Man
BLPU_CLASS	Classification code for the BLPU	T 4		Man
START_DATE	Date this record or version created	Date		Man
END_DATE	Date on which this classification ceased to apply to the property	Date		Con
ENTRY_DATE	Date of data entry	Date		Man
LAST_UPDATE_DATE	Date this record was last changed	Date		Man

Record Example

32,"I",18,12200000,"9078C000000001","Scottih Gazetteer Conventions v1.0","CH01",2008-10-30,,2008-10-30,2008-10-30

Differences From DTF 6.3 & 7.3

1. This is new record type to allow multiple classifications to be held for a property.

STREET MAINTENANCE RESPONSIBILITY (51)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a street maintenance responsibility record	N 2	51	Man
CHANGE_TYPE	Type of record change	T 1	Table S1	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
USRN	Unique street reference number	N 8	Ref Doc 6	Man
ASD_AUTHORITY_CODE	Code for the organisation providing the data	N 4	Ref Doc 6	Man
MAINTENANCE_SEQ_NUM	Sequential reference of the record type 51 entries for the road	N 4	Ref Doc 6	Man
MAINTAINING_AUTHORITY_CODE	Code for the road or other authority maintaining the road	N 4	Ref Doc 6	Man
WHOLE_ROAD	A code to indicate if this authority maintains the whole road	N 1	Ref Doc 6	Man
SPECIFIC_LOCATION	Description of the section of road maintained by this authority	T 120	Ref Doc 6	Con
ROAD_STATUS	A code to indicate the status of the road	N 2	Ref Doc 6	Man
START_X	The easting coordinate of the maintenance section start point	N 7.2	Ref Doc 6	Con
START_Y	The northing coordinate of the maintenance section start point	N 7.2	Ref Doc 6	Con

STREET MAINTENANCE RESPONSIBILITY (51)				
Field	Description	Type	Value	Status
END_X	The easting coordinate of the maintenance section end point	N 7.2	<i>Ref Doc 6</i>	Con
END_Y	The northing coordinate of the maintenance section end point	N 7.2	<i>Ref Doc 6</i>	Con

Record Example

51,"I",15,38000001,9078,1,9078,1,"",01,279140.00,694580.00,279199.00,694700.00

Differences from RUC(S) Advice Note 5

1. CHANGE_TYPE field added.
2. PRO_ORDER field added.
3. GAZ_REF renamed USRN
4. START_EAST renamed START_X
5. START_NORTH renamed STARY_Y
6. END_EAST renamed END_X
7. END_NORTH renamed END_Y

STREET REINSTATEMENT CATEGORY (52)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a street reinstatement record	N 2	52	Man
CHANGE_TYPE	Type of record change	T 1	Table S1	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
USRN	Unique street reference number	N 8	Ref Doc 6	Man
ASD_AUTHORITY_CODE	Code for the organisation providing the data	N 4	Ref Doc 6	Man
CATEGORY_SEQ_NUM	Sequential reference of the record type 52 entries for the road.	N 4	Ref Doc 6	Man
REINSTATEMENT_CATEGORY	A code to indicate the reinstatement category of the road, footway etc.	N 2	Ref Doc 6	Man
WHOLE_ROAD	A code to indicate if this category applies to the whole road	N 1	Ref Doc 6	Man
SPECIFIC_LOCATION	Description of the section of road maintained by this authority	T 120	Ref Doc 6	Con
START_X	The easting coordinate of the maintenance section start point	N 7.2	Ref Doc 6	Con
START_Y	The northing coordinate of the maintenance section start point	N 7.2	Ref Doc 6	Con
END_X	The easting coordinate of the maintenance section end point	N 7.2	Ref Doc 6	Con

STREET REINSTATEMENT CATEGORY (52)				
Field	Description	Type	Value	Status
END_Y	The northing coordinate of the maintenance section end point	N 7.2	<i>Ref Doc 6</i>	Con

Record Example

52,"I",16,38000001,9078,2,01,1,"" ,,,,

Differences from in RAUC(S) Advice Note 5

1. CHANGE_TYPE field added.
2. PRO_ORDER field added.
3. GAZ_REF renamed USRN
4. START_EAST renamed START_X
5. START_NORTH renamed STARY_Y
6. END_EAST renamed END_X
7. END_NORTH renamed END_Y

STREET SPECIAL DESIGNATION (53)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a street special designation record	N 2	53	Man
CHANGE_TYPE	Type of record change	T 1	<i>Table S1</i>	Man
PRO_ORDER	Order records in transfer file should be processed in	N 16		Man
USRN	Unique street reference number	N 8	<i>Ref Doc 6</i>	Man
ASD_AUTHORITY_CODE	Code for the organisation providing the data	N 4	<i>Ref Doc 6</i>	Man
DESIGNATION_SEQ_NUM	Sequential reference of the record type 53 entries for the road	N 4	<i>Ref Doc 6</i>	Man
SPECIAL_DESIGNATION	A code to indicate the type of special designation applying on the road	N 2	<i>Ref Doc 6</i>	Man
WHOLE_ROAD	A code to indicate if this special designation applies to the whole road	N 1	<i>Ref Doc 6</i>	Man
SPECIFIC_LOCATION	Description of the section of road maintained by this authority	T 120	<i>Ref Doc 6</i>	Con
START_X	The easting coordinate of the maintenance section start point	N 7.2	<i>Ref Doc 6</i>	Con
START_Y	The northing coordinate of the maintenance section start point	N 7.2	<i>Ref Doc 6</i>	Con
END_X	The easting coordinate of the maintenance section	N 7.2	<i>Ref Doc 6</i>	Con

STREET SPECIAL DESIGNATION (53)				
Field	Description	Type	Value	Status
	end point			
END_Y	The northing coordinate of the maintenance section end point	N 7.2	<i>Ref Doc 6</i>	Con
DESCRIPTION	Description of the Special Designation	T 255	<i>Ref Doc 6</i>	Con
AUTHORITY_CODE	A code indicating the authority responsible for the special designation	N 4	<i>Ref Doc 6</i>	Man

Record Example

53,"I",17,38000001,9078,3,01,1,"",,,,,,"",9078

Differences from RAUC(S) Advice Note 5

1. CHANGE_TYPE field added.
2. PRO_ORDER field added.
3. GAZ_REF renamed USRN
4. START_EAST renamed START_X
5. START_NORTH renamed STARY_Y
6. END_EAST renamed END_X
7. END_NORTH renamed END_Y

TRAILER RECORD (type 99)				
Field	Description	Type	Value	Status
RECORD_IDENTIFIER	Identifies this record as a trailer record	N 2	99	Man
NEXT_VOLUME_NUMBER	The sequential number of the next volume in the transfer set. This will be set to zero if this is the last volume	N 2	0-99	Man
RECORD_COUNT	Count of the number of records in the volume (excluding the header, metadata, and trailer records)	N 12		Man
ENTRY_DATE	Date of data entry	Date		Man
TIME_STAMP	Time of file creation	Time	000000-235959	Man

Record Example

99,0,323001,2008-12-12,164031

Differences from RAUC(S) Advice Note 5

1. Presence of ENTRY_DATE field.
2. Presence of TIME_STAMP field.
3. CHECK_SUM field removed.

5 Implementation Timetable

The current proposal for implementation is as follows:

30 April 2009	Software suppliers to provide timescales for implementation of import and export functionality for Scottish Data Transfer Format 1.0 (CSV).
April 2009 – May 2009	Scottish Data Transfer Format 1.0 (XML) development.
April 2009 – Oct 2009	Implementation of Scottish DTF by GMS and LSG software suppliers. Test files welcomed as early as possible within this period. Minor revisions to SDTF specification if deemed necessary.
October 2009	Full adoption of Scottish DTF 1.0 (CSV and XML) in the OneScotland Gazetteer.

These proposals will require close co-operation between the OneScotland Gazetteer hub, software suppliers and gazetteer custodians to update GMS and LSG software and to develop the OneScotland Gazetteer solution in a controlled manner.