



e-Government Interoperability Framework (e-GIF)

Government Data Standards Catalogue

Volume 2 – Data Types Standards



EXECUTIVE SUMMARY

The e-Government Interoperability Framework (e-GIF) mandates the adoption of XML and the development of XML schemas as the cornerstone of the government interoperability and integration strategy. A key element in the development of XML schemas is an agreed set of data standards. The Government Data Standards Catalogue sets out the rationale, approach and rules for setting and agreeing the set of Government Data Standards (GDS) to be used in the schemas and other interchange processes. It also contains the standards agreed to date. These standards are also recommended for data storage at the business level.

The Catalogue comprises 3 volumes:

Volume 1 sets out the general principles, i.e. the rationale, approach and rules for setting standards

Volume 2, this Volume, sets out the Data Types standards

Volume 3 sets out the Data Items standards

Index of Data Type Standards

Amount Sterling	3
BS7666 Address	4
Date	5
E-Mail Address	6
Forename	7
Individual Full Name	8
International Postal Address	9
Name Suffix	10
Postcode	11
Requested Name	12
Surname	13
Time	14
Title	15
UK Postal Address	16
UK Telephone Number	17
APPENDIX A ABBREVIATIONS/ACRONYMS	18

Amount Sterling

Name:	AMOUNT STERLING
Definition:	The amount of a sum of money expressed in Sterling.
Business Format:	Max 16 characters
XML Schema ID:	Tbd
Validation:	A sign (+ or -) followed by a maximum of 14 numeric characters representing the amount expressed in pounds and pence to two decimal places.
Values:	N/A
Default Value:	N/A
Owner:	OeE
Based on:	None
Verification:	N/A
Comments:	This allows for + or - £999,999,999,999.99.
Version:	0.4 draft
Date:	

BS7666 Address

Name:	BS7666 ADDRESS
Definition:	The address that provides a unique identification and location of a real world object in Great Britain.
Business Format:	As per BS7666 1994
XML Schema ID:	Tbd
Validation:	See BS7666 1994
Values:	N/A
Default Value:	N/A
Owner:	BSI
Based on:	BS7666 1994
Verification:	N/A
Comments:	N/A
Version:	0.1 draft
Date:	

Date

Name:	DATE
Definition:	The day, month, year and century, or any combinations of these elements, of an event
Business Format:	Max 10 Characters in the format CCYY-MM-DD
XML Schema ID:	Tbd
Validation:	<ol style="list-style-type: none">1. Values less than 10 in the day, month or year elements, should be entered with a zero in the first position2. Days must not be greater than 30 in April, June, September and November.3. Days must not be greater than 28 in February except when 29 is allowed for a leap year.
Values:	CCYY should be a valid year number MM in Range 01 - 12 DD in Range 01 - 31
Default Value:	N/A
Owner:	OeE
Based on:	XML Schema Part 2: Datatypes W3C Recommendation 02 May 2001. See http://www.w3.org/TR/xmlschema-2/
Verification:	N/A
Comments:	<ol style="list-style-type: none">1. See the W3C standard for details of formatting shortened versions of Date, e.g. month and year only2. DSS cannot process dates before 29/2/1852
Version:	0.3 draft
Date:	

E-Mail Address

Name:	E-MAIL ADDRESS
Definition:	The string of characters that are needed in order to get an item of e-mail delivered to the correct post-box for the intended person, role or office.
Business Format:	As per IETF RFC2822
XML Schema ID:	Tbd
Validation:	See IETF RFC2822
Values:	N/A
Default Value:	N/A
Owner:	OeE
Based on:	IETF RFC2822
Verification:	N/A
Comments:	N/A
Version:	0.4 draft
Date:	

Forename

Name:	FORENAME
Definition:	The forename or given name of an individual.
Business Format:	Max 35 characters
XML Schema ID:	Tbd
Validation:	<ol style="list-style-type: none">1. Any allowable character2. Consecutive spaces are not allowed
Values:	N/A
Default value:	N/A
Owner:	OeE
Based on:	BSEN 7372:1993
Verification:	N/A
Comments:	An individual can have multiple occurrences of a Forename.
Version:	0.4 draft
Date:	

Individual Full Name

Name:	INDIVIDUAL FULL NAME
Definition:	The full name of an individual. This is an unstructured concatenation of some or all of the Title, Forename, Surname and name suffix elements, or other elements that make up an individual's full name.
Business Format:	Max 70 characters
XML Schema ID:	Tbd
Validation:	<ol style="list-style-type: none">1. Any allowable character2. Each element of the name must be separated by a space3. Consecutive spaces are not allowed
Values:	N/A
Default value:	N/A
Owner:	OeE
Based on:	N/A
Verification:	N/A
Comments:	This standard is for use where it is not necessary to know or process the individual elements of an individual's name.
Version:	0.1 draft
Date:	

International Postal Address

Name:	INTERNATIONAL POSTAL ADDRESS
Definition:	The address of an International postal delivery point.
Business Format:	<ol style="list-style-type: none">1. Max 35 characters per line2. Minimum of 2 lines and maximum of 5 lines for the postal delivery point details, plus 1 line for country and 1 line for postcode/zip code
XML Schema ID:	Tbd
Validation:	N/A
Values:	N/A
Default Value:	N/A
Owner:	OeE
Based on:	N/A
Verification:	N/A
Comments:	N/A
Version:	0.1 draft
Date:	

Name Suffix

Name:	NAME SUFFIX
Definition:	A textual suffix that may be added to the end of a person's name, for example, OBE, MBE, BSc, JP, GM.
Business Format:	Max 35 characters
XML Schema ID:	Tbd
Validation:	<ol style="list-style-type: none">1. First character must be A – Z2. Consecutive spaces are not allowed.3. Each occurrence must be separated by a space
Value:	N/A
Default Value:	N/A
Owner:	OeE
Based on:	BSEN 7372:1993
Verification:	N/A
Comments:	N/A
Version:	0.3 draft
Date:	

Postcode

Name:	POSTCODE
Definition:	The code allocated by the Post Office to identify a postal delivery point.
Business Format:	Minimum 6 and Maximum 8 characters
XML Schema ID:	Tbd
Validation:	<ol style="list-style-type: none">1. The Outward code can be 2, 3 or 4 characters followed by a space and the inward code, which is 3 characters and is always NAA2. The outward code has seven valid formats, AN, ANN, AAN, AANN, ANA, AANA, and AAA3. The letters I and Z are not used in the second alpha position (except GIR 0AA)4. The second half of the code never uses the letters C, I, K, M, O, and V
Values:	N/A
Default Value:	N/A
Owner:	Royal Mail
Based on:	Royal Mail
Verification:	N/A
Comments:	<p>The inward and outward code can be broken down into sub parts as follows:</p> <ul style="list-style-type: none">• the outward code consists of a postcode area and a postcode district,• the inward code consists of a postcode sector and a postcode unit.
Version:	0.4 draft
Date:	

Requested Name

Name:	REQUESTED NAME
Definition:	The name an individual wishes to use where some or all of the elements of the name are not catered for by Title, Forename(s), Surname and Name Suffix fields.
Business Format:	Max 70 characters
XML Schema ID:	Tbd
Validation:	<ol style="list-style-type: none">1. Each element of the name must be separated by a space2. Consecutive Spaces are not allowed.
Values:	N/A
Default Value:	N/A
Owner:	OeE
Based on:	N/A
Verification:	N/A
Comments:	The Requested Name field should be used where a person requests a particular style of address, for example, The Warden of St.Annes Rest Home or where a name which is longer than that allowed for within a particular package shall be abbreviated in a way other than that arising by default
Version:	0.3 draft
Date:	

Surname

Name:	SURNAME
Definition:	That part of a person's name which is used to describe family, clan, tribal group, or marital association.
Business Format:	Max 35 characters
XML Schema ID:	Tbd
Validation:	Consecutive spaces are not allowed.
Values:	N/A
Default Value:	N/A
Owner:	OeE
Based on:	BSEN 7372:1993
Verification:	N/A
Comments:	N/A
Version:	0.4 draft
Date:	

Time

Name:	TIME
Definition:	The time (using a 24 hour clock) at which an event, or the action in an event, takes place.
Business Format:	Max 8 characters expressed as HH:MM:SS (H=hours, M=minutes, S=seconds)
XML Schema ID:	Tbd
Validation:	<ol style="list-style-type: none">1. All times must be expressed in the 24 hour clock format, e.g. one minute past midnight is 00:01:002. Values of any element less than 10 should be entered with a zero in the first position
Values:	N/A
Default Value:	N/A
Owner:	OeE
Based on:	XML Schema Part 2: Datatypes W3C Recommendation 02 May 2001. See http://www.w3.org/TR/xmlschema-2/
Verification:	N/A
Comments:	See the W3C standard for details of formatting shortened versions of Time, e.g. hours and minutes only
Version:	0.3 draft
Date:	

Title

Name:	TITLE
Definition:	Standard form of address used to precede a person's name.
Business Format:	Max 35 characters
XML Schema ID:	Tbd
Validation:	N/A
Values:	The full available range of generally recognised titles are permitted. However if any of the following are used then the value input must conform to the format below: Mr Mrs Miss Ms Dr Rev Sir Lady Lord Captain Major Professor Dame Colonel
Default Value:	N/A
Owner:	OeE
Based on:	BSEN 28601
Verification:	N/A
Comments:	An individual can have multiple occurrences of a Title.
Version:	0.3 draft
Date:	

UK Postal Address

Name:	UK POSTAL ADDRESS
Definition:	The address of a postal delivery point within the UK. This is usually a building and usually comprises a name/number, street, town and county.
Business Format:	<ol style="list-style-type: none">1. Max 35 characters per line2. Minimum of 2 lines and maximum of 5 lines
XML Schema ID:	Tbd
Validation:	N/A
Values:	N/A
Default Value:	N/A
Owner:	OeE
Based on:	BSEN 7372:1993
Verification:	N/A
Comments:	N/A
Version:	0.4 draft
Date:	

UK Telephone Number

Name:	UK TELEPHONE NUMBER
Definition:	A number, including any exchange or location code, at which a person or organisation can be contacted in the UK by telephonic means.
Business Format:	Max 12 characters
XML Schema ID:	Tbd
Validation:	There must not be spaces between the characters
Values:	N/A
Default Value:	N/A
Owner:	OeE
Based on:	OFTEL guidance
Verification:	N/A
Comments:	<ol style="list-style-type: none">1. The complete telephone number should always be transferred2. It should be noted that “STD” code no longer has any geographic significance. Codes will increasingly be used to denote the type of equipment being called, static or mobile, the company providing the line, BT, Mercury etc, or the type of charging in operation on the number, e.g. 0800 free, 0345 local rate etc.
Version:	0.4 draft
Date:	

APPENDIX A ABBREVIATIONS/ACRONYMS

Detailed below are the abbreviations and acronyms used within this Catalogue:

Banks Automated Clearing System	BACS
British Standard European Norm	BSEN
British Standards Institute	BSI
British Telecom	BT
Crown Court Criminal Justice System	CCCJS
Customs & Excise	HMCE
Department	DEPT
Department of Social Security	DSS
European Union	EU
Employment Service	ES
Government	GOVT
Government Data Standard(s)	GDS
Internet Engineering Task Force	IETF
Inland Revenue	IR
International Organisation for Standardisation	ISO
National Insurance Number	NINO
Not Applicable	N/A
Number	NO
Office of e-Envoy	OeE
Office for National Statistics	ONS
Organisation for Economic Co-operation and Development	OECD
Request for Comment	RFC
Request for Proposal	RFP
Standardised Industrial Classification	SIC

Subscriber Trunk Dialling	STD
To be determined	Tbd
Telephone	TEL
United Kingdom	UK
United Kingdom Passport Agency	UKPA
Value Added Tax	VAT
World Wide Web Consortium	W3C
Extensible Markup Language	XML