Document No: MDDS- Demographic: 01
Version: 1.1
November, 2011

MDDS - Demographic

(Person Identification and Land Region Codification)

Government of India
Department of Information Technology
Ministry of Communications and Information Technology
New Delhi – 110 003

Amendments Log

Old Version No. & Date	Briefing about change request and action taken	New version No. & date	The sections, which have been revised / new section added
1.0 December 2009	-Change in Title	1.1	The title in earlier version 1.0 was "Metadata and data standards for Person Identification and Land Region codification". In version 1.1, it has been changed to **"MDDS-Demographic (** Person Identification and Land Region Codification)" This change in the title has been done to keep it in line with nomenclature adopted for various domain specific Data and Metadata Standards like MDDS-PR (Panchayati Raj), MDDS-PDS (Public Distribution System) etc., which are in various stages of formulation."
	-Request to make all Land Region codes unique at National level irrespective to the State code		Changed nomenclature of Land Region Country from "Country code" to "Country Short Name Code" in line with the terminology used in ISO 3166-1 alpha-3 standard.
			Data elements for Iris image added as per notified standard version 1.0 in March 2011.
	Biometrics data elements (Face image and Fingerprint image) to be revised in line with notified Biometric Standards by DIT (November, 2010)		Revised Metadata of Face image, Fingerprint image as per notified Biometric standards version 1.0 in November, 2010.
			For all the Code Directories changed the format of the codes from Varchar to Integer. Annexure – IV Updated values in code directories based on inputs from Office of RGI.
			Addressed the requirement of Urban region (Town) spanning across two Districts or may be two Sub Districts by adding section

			5.3.3.6.1 in the document. Revised some definitions. In the metadata of data elements section brought clarity in “Owner” and “Based on “ parameters. Owners of some code directories changed. In MDDS 1.0 version, format for most of the data elements was decided as Varchar. However based on the feedback of technologists, who referred MDDS 1.0 for its deployment in e-Governance projects, format of some data elements were revised from Varchar to **char** (for fixed length alphanumeric string), **Integer** (for whole Numbers), and **Decimal (**for real /floating point Numbers) Revised diagrams in section 5.2.3. Revised structure of data elements related to Measurement, Amount and Telephone Number. Revised description of data element Version Number. Some editorial changes also were done for better clarity.

CONTENTS

1.0 Introduction

Presently most of the e-Governance applications are operating in silos. For a successful e-Governance system there is a need for seamless sharing and exchange of data among departmental applications. Semantic interoperability among e-Governance applications requires that precise meaning of exchanged information is understood across applications. There is a need for commonly accepted data definitions for the various elements used in Governance systems. Hence, standardization of data elements is the prerequisite for systematic development of e-Governance applications.

Data Standards may be defined as the agreed upon terms for defining and sharing data. Data Standards promote the consistent recording of information and are fundamental to the efficient exchange of information. They provide the rules for structuring information, so that the data entered into a system can be reliably read, sorted, indexed, retrieved, communicated between systems, and shared. They help protect the long-term value of data.

Once the data standards are in place, there is a need to manage data, information, and knowledge. Metadata of standardized data elements can be used for this purpose.

Metadata is structured information that describes, explains, locates or otherwise makes it easier to retrieve, use or manage an information resource. Metadata is often called data about data or information about information. A metadata is a matter of context or perspective -what is metadata to one person or application can be data to another person or application.

In other words, Metadata facilitates the user by providing access to the raw data through which the user can have an understanding of the actual data. Hence, Metadata is an abstraction layer that masks the underlying technologies, making the data access friendlier to the user.

The initial report prepared by Working group on Data and Metadata Standards for Application Domains, under the Chairmanship of Prof. C.R. Muthukrishnan, IIT-M, Chennai was used as a base document by the Expert Committee on Data and Metadata Standards.

1.1 Scope

The data elements can be categorized in two categories - Generic data elements and Custom data elements. The Generic data elements are usually defined as commonly used data elements in e-Governance applications across different domains. Custom data elements are derived from generic data elements, specific to the requirements of an application within a domain. In the present version of the Data and Metadata Standards (MDDS), **generic data elements common across all domain applications, generic data elements for Person Identification and generic data elements for Land Region Codification** have been identified and standardized.

In this document, the nomenclature of Generic data elements and their business formats have been specified. Also, the Metadata for each of these elements has been specified.

Further, the values of certain generic data elements need to be controlled and defined in advance, for using them uniformly across the domain applications. The values of such generic data elements are specified in their respective **Code directories.** In this document, the code directories relevant to the generic data elements for Person Identification and

Land Region Codification have been identified. The owners, attributes, formats and values of codes in these code directories are also included.

The e-Governance applications would adopt metadata of these data elements for designing the databases / forms to ensure seamless interoperability while interchanging data.

1.2 Purpose

The adoption of Data Standards for use across e-Governance systems will enable easier, efficient exchange and processing of data. It will also remove ambiguities and inconsistencies in the use of data. Inevitably the migration to these new Standards may appear at the outset to be costly and time-consuming to some parts of government. However this burden should be outweighed by reduced development costs through the use of the agreed XML schemas that use these Standards. It will also be easier and cheaper to use these Standards from the outset in systems development rather than making changes during the lifetime of the systems.

Data and Metadata Standards provide a way for information resources in electronic form to communicate their existence and their nature to other electronic applications (e.g. via HTML or XML) or search tools and to permit exchange of information between applications.

The objective of this document is to define the data Standards to enable semantic interoperability and management of this data with the help of Metadata Standards.

1.3 Description

The present document “Data and Metadata Standards- Demographic” focuses on Person Identification and Land Region codifications. It includes the following:

a) Mechanism for allocation of reference no. to the identified Generic data elements, and their grouping

b) Generic data elements specifications like:
   - Generic data elements, common across all Domain applications
   - Generic data elements for Person identification
   - Generic data elements for Land Region Codification
   - Data elements to describe Address of a Premises, where a Person resides

c) Specifications of Code Directories like:
   - Ownership with rights to update
   - Identification of attributes of the Code directories
   - Standardization of values in the Code directories

d) Metadata of Generic Data Elements
   - Identification of Metadata Qualifiers
   - Metadata of the data elements

e) Illustration of data elements to describe:
   - A Person identification
   - Address of a premises

1.4 Applicability

This Standard would be applicable to all e-Governance applications in India as per the Government's Policy on Open Standards (refer http://egovstandards.gov.in/policy/policy-on-open-standards-for-e-governance/)

2.0 Target Audience

- All stake holders in Central and State Govt., as well as Public and Private Organizations, involved in execution, design, development and implementation of e-governance applications.
- Administrative Governance providers
- Development schemes Providers
- Welfare Scheme Providers
- Disaster Management Groups etc.

3.0 Type of Standard Document & Enforcement Category

Type of Standard : Specifications Standard

Enforcement Category: Mandatory

4.0 Definitions and Acronyms

Refer Annexure – I

5.0 Specifications of Generic data Elements and their Metadata

5.1 Allocation of Reference Numbers to the identified Generic Data Elements

Purpose:

With the objective of linking the identified Generic data elements with their metadata, each one of them has been allocated a unique reference number. Further, the reference numbers are codified to ensure logical grouping of relevant generic data elements, some of which may be identified in future.

The coding scheme of Universal Postal Union (UPU) Standards S42a-5 and S42b-5 has been adopted for structuring of these reference numbers.

5.1.1 Rationale of Grouping of Generic Data Elements for their Codification

The Generic data elements identified for standardization can be described as:

- Data elements having distinct identity with only one level of description

- Data elements having two levels of description, where 2nd level describes the subtypes. These subtypes can be "**Instances**" or "**Parts**", which also have distinct identity.

Here **Instance (a type representing the same data element in a different way)** means representation of the same root data element at 1st level in different formats, which may or may not be mandatory to describe the root data element. For example, the generic data element "Date" can have different instances to represent date in different formats.

For example, one instance may represent the Date in format say dd/mm/yyyy, and another instance may represent the date in different format say dd-mm-yyyy

Part means physical sub division of the root data element at 1st level or its instance. The parts are mandatory to describe the root data element. For example, to describe the data element, "Date", the parts- "day", "month" and "year" - are mandatory.

For the purpose of standardization and interoperability, data elements of domain applications would be derived from the generic data elements, if applicable

5.1.2 Codification Scheme for Reference Numbers of Data Elements

A codification scheme has been adopted for grouping and referencing of data elements at two levels. The coding scheme represents an e-Governance domain, data element within the domain, instance of data element, and part of the data element, structured as domain no (xx): data element no within domain (yy)-Instance number (nn) - part number (mm).

An Illustration:

S.No	Data Element	Instance (a type representing the same data element in different way)	Parts	Codification scheme for its reference number
1	Data element having no parts and no instances	NA	NA	xx.yy
2	Data element having only i**nstances,** and no parts	Applicable	NA	xx.yy-nn For example: xx.yy-01 xx.yy-02
3	Data element having only **parts** and no instances	NA	Applicable	xx.yy-00-mm For example : xx.yy-00-01 xx.yy-00-02
4	Data element having **parts** as well as **instances**	Applicable	Applicable	xx.yy-nn-mm For example: xx.yy-01 -01 xx.yy-02-01 xx.yy-01-02 xx.yy-02-02

Here,

xx : Defines the Domain number

yy: Defines the Data Element number within the domain xx

xx.yy-01 : Defines an Instance of Data element xx.yy

xx.yy-00-01: Defines a Part of Data element xx.yy

xx.yy-01-01: Defines the Instance of the Data element part xx.yy-00-01

Further "G" will be prefixed to indicate that the referenced data element is Generic, and "C" will be prefixed to indicate that the referenced data element is Customized for a specific purpose in the domain application, like "Date of Birth" derived from the generic data element " Date".

Illustrations of Codification Scheme

a. Data element "Date" has three parts like: Day, Month, Year
Hence, reference numbers for Generic data element "date", and its parts would be as follows:

Domain name (xx): Common for all domain applications	**G00**
Data Element: Date (in dd/mm/yyyy) format)	**G00.01**
1st Part of Date : Day	G00.01-00-01
2nd Part of Date : Month	G00.01-00-02
3rd Part of Date : Year	G01.01-00-03

b. Reference number of data element "Measurement" and its instances (different ways of a measurement) like:

- Measurement of **Distance in Meters/ Kilometers/ Centimeters/ Millimeters**
- Measurement of Area in **Square Meters/ Kilometers/ Centimeters/ Millimeters /Hectares**
- Measurement of Volume in **Cubic Meter/ Cubic Centimeter / Cubic Milliliters**
- **Measurement of Weight in Gram / Kilogram**

Hence the data element "measurement" will have difference instances, which would have reference numbers as follows:

Domain name (xx): Common for all domain applications	**G00**
Generic Data element: Measurement	**G00.02**
Measurement- Distance in **Meters**	G00.02-11
Measurement- Distance in **Kilometers**	G00.02-12
Measurement- Distance in **Centimeters**	G00.02-13
Measurement- Distance in **Millimeters**	G00.02-14
Measurement- Area in **Square Meters**	G00.02-21
Measurement- Area in **Square Kilometers**	G00.02-22
Measurement- Area in **Square Centimeters**	G00.02-23
Measurement- Area in **Square Millimeters**	G00.02-24
Measurement- Area in **Hectares**	G00.02-25
Measurement- Volume in **Cubic Meters**	G00.02-31
Measurement- Volume in **Cubic Kilometers**	G00.02-32
Measurement- Volume in **Cubic Centimeters**	G00.02-33
Measurement- Volume in **Cubic Millimeters**	G00.02-34
Measurement- Weight in **Grams**	G00.02-41
Measurement- Weight in **Kilograms**	G00.02.42
Measurement – Weight in Quintal	G00.02.43

5.2 List of Identified Generic Data Elements

Three types of generic data elements have been identified in the present version of MDDS standard, as listed below:

- Domain No. 00 - Generic data elements Common across all Domain applications
- Domain No. 01 - Generic data elements specific to Person Identification
- Domain No. 02 - Generic data elements specific to Land Region codification

Note:

a. With time, list of these domains would increase with standardization of generic data elements within the domains by using the above mentioned procedure of allocation of reference numbers to the identified data elements.

b. ***Storage format for all the Generic data elements in recognized Official language would be UTF-8, as recommended by Expert Committee on Indian Languages.***

5.2.1 Generic Data Elements Common across all the Domain Applications

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G00.01 G00.01-00-01 G00.01-00-02 G00.01-00-03	**Date** - Day of the Month - Month - Year	Calendar date having three sub divisions like day, month and year	Date (dd/mm/yyyy)	10
G00.02 Measurement				
G00.02-11	Distance in **Meters**	The process of ascertaining dimensions (Distance, Area, and Volume) & quantity (Weight) in Metric system of measurement. ***Note: For the purpose of uniformity, three decimal places have been standardized for this generic data element across the domain applications, and maximum size has been marked as "p", which can be customized / standardized by domain applications as per their specific requirements.***	Decimal (p,3)	p
G00.02-12	Distance in **Kilometers**		Decimal (p,3)	p
G00.02-13	Distance in **Centimeter**		Decimal (p,3)	p
G00.02-14	Distance in **Millimeters**		Decimal (p,3)	p
G00.02-21	Area in **Square Meters**		Decimal (p,3)	p
G00.02-22	Area in **Square Kilometers**		Decimal (p,3)	p
G00.02-23	Area in **Square Centimeters**		Decimal (p,3)	p
G00.02-24	Area in **Square Millimeters**		Decimal (p,3)	p
G00.02-25	Area in **Hectares**		Decimal (p,3)	p
G00.02-31	Volume in **Cubic Meters**		Decimal (p,3)	p
G00.02-32	Volume in **Cubic Kilometers**		Decimal (p,3)	p
G00.02-33	Volume in **Cubic Centimeters**		Decimal (p,3)	p
G00.02-34	Volume in **Cubic Millimeters**		Decimal (p,3)	p
G00.02-41	Weight in **Grams**		Decimal (p,3)	p
G00.02-42	Weight in **Kilograms**		Decimal (p,3)	p
G00.02.43	Weight in Quintal		Decimal (p,3)	p
G00.03	**Financial year**	Financial year	Char	7 nnmm-(mm+1)
G00.04	**Amount**	Amount in Rupees	Decimal (p,2)	p

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
		Note: For the purpose of uniformity, two decimal places have been standardized for this generic data element across the domain applications, and maximum size has been marked as "p", which can be customized / standardized by domain applications as per their specific requirements. #		
G00.05-01	**Language Code**	Language codes for 22 State Recognized Official Languages and a code for English language Refer to code directory no. CD00.02	Integer	2
G00.06 Telephone Number				
G00.06-00-01	International Access Code	This is the code to be used for dialing a telephone number internationally, which is sometimes referred as exit number also. For India its value is "00", when dialing a telephone number of some other country from India. For dialing a telephone number in India from some other country, International Access Code of that country and Country code of India will have to be prefixed to Landline number /Mobile number.	Varchar[1]	3
G00.06-00-02	Country Code	Country code to be	Varchar	3

[1] In this document, the data type **Varchar** is being used which is synonymous with CHARACTER VARYING, as per ANSI92 standard.

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
		prefixed to the Landline number / Mobile number for dialing internationally For India its value is "91" when dialing from some other country.		
G00.06-00-03	Trunk Code	Trunk code to be prefixed with the Landline number / Mobile number while dialing from the place other than local area within the country; Its value is "0"	Char	1
G00.06-00-04	Area Code	Area code to be prefixed with Landline number while dialing from the place other than local exchange The size may be between 2-4 digits ***Note: Area code prefixed with trunk code is STD code in the terminology used by BSNL***	Varchar	4
G00.06-00-05 Phone Number (Landline number / Mobile number allocated by a service provider)				
G00.06-01-05	Landline number	Landline number allocated by a service provider within an area when communication signal travels through a solid medium, either metal wire or optical fiber) The size may be between 6-8 digits in such a way that size of area code + Landline code is 10 digits	Varchar	8
G00.06-02-05	Mobile number	Mobile number allocated by a mobile network operator, when communication signal travels through radio waves	Char	10

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G00.07	**Calendar Year**	Calendar year	Char	4
G00.08	**Version no**	A unique number or set of numbers assigned to a specific release of an entity	Varchar	5
G00.09	**Email**	Email of a Person/ Organization	Varchar	254

5.2.2 Generic Data Elements specific to Person Identification

Objective of Person Identification Codification

To describe / identify each and every Person **uniquely** at the National level to ensure interoperability of information related to individuals collected by various Government /non Government organizations. Also to ensure data integrity and smooth horizontal and vertical data exchange related to the individuals across the domain applications. Usually, following attributes are required to uniquely describe characteristics of a Person.

- Unique number for Identification of a Person
- Name of the Person including titles to be suffixed/ prefixed, in different ways
- Details about Father, Mother and Spouse
- Gender
- Marital Status
- Educational qualification & Occupation
- Religion
- Date of Birth & Place of Birth, Age
- Present Residential Address
- Permanent Residential Address
- Biometric data like face image, fingerprints, iris etc.
- Visual identification marks
- Specimen Signature / Thumb Impression
- Relationship with the head of household
- Telephone Number etc.

The following Generic data elements have been identified to meet the requirements of the above objective:

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G01.01	**Unique Identification (UID)**	Unique Person identification number at National level as per algorithm of UID devised by UIDAI	Integer (UIDAI has used Number, which is synonymous with Integer as per ANSI 92 data type)	12
G01.02 Name of the Person				
G01.02-01	Short Name in English	Short Name in **English** as desired to be displayed in the documents / forms. (It is a set of character strings / Initials each separated by a "blank space", representing surname / given name/ middle name/….etc. The sequencing of the strings / initials has to be in the order, in which the Person desires the short name to be displayed in the documents / forms)	Varchar	30
G01.02-02	Full Name in English	**Full Name in English** as expanded and captured in natural order, for the purpose of searching records and data sharing by name strings (It is a set of expanded character strings, each separated by a "blank space", representing surname / given name/ middle name/, etc. in any order as per cultural practices. In the full name, it is mandatory to include all character strings and the expanded strings of initials reflected in the short name. However, the full name can	Varchar	99

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
		have additional character strings also, which might not have been included in the short name. The full name string should not include Appellation / title)		
G01.02-03	Short Name in Recognized Official Language	**Short Name in Recognized Official language as desired** to be displayed in the documents / forms. (It is a set of character strings / Initials each separated by a "blank space", representing surname / given name/ middle name/….etc. The sequencing of the strings / initials has to be in the order, in which the Person desires the short name to be displayed in the documents / forms)	Varchar Storage in UNICODE Standard UTF-8	30
G01.02-04	Full Name in Recognized Official Language	Full Name in **Recognized Official language** as expanded and captured in the natural order, for the purpose of searching records by name strings (It is a set of expanded character strings, each separated by a "blank space", representing surname / given name/ middle name/….etc in any order as per cultural practices. In the full name, it is mandatory to include all character strings and the expanded strings of initials reflected in the short name. However, the full name can have additional character strings also, which might not have been included in the short name. The full name string should not include Appellation / title)	Varchar Storage in UNICODE Standard UTF-8	99

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G01.03	**Gender Identification Code**	M - Male F - Female T - Transgender	Char	1
G01.04	**Marital Status**	1 - Never married 2 - Currently married 3 - Widow / Widower 4 - Divorced 5- Separated	Integer	1
G01.05-01	**Appellation Code**	An **Appellation** is a **title** for a Person like Mr., Dr. etc. to be prefixed with the name to indicate person's gender, marital status, Professional status etc. Values as per code directory (CD01.04) ***Note: Maximum of two Appellations allowed for a person***	Integer	2
G01.06-01	**Suffix Code**	**Suffix** to the name of the Person to indicate person's positional status like IAS, IPS etc. Values as per code directory (CD01.05)	Integer	2
G01.07-01	**Relation Type**	H- **H**ead of house hold N- **N**ot head of household (Default value "N")	Char	1
G01.08-01	**Relationship Code**	**Relationship** of the Person, with head of the family like self, sister, brother etc. Values as per code directory (CD01.06)	Integer	2
G01.09 Face Image				
G01.09-00-01	Face Image Record Header	Information about: -Format identifier -Version number -Length of record -Number of face images	Bytes	14

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G01.09-00-02	Face Image Record data	**Information about:** -Facial information - Feature point -Face Image information - Resolution	Bytes Minimum 300 ppi (pixels per inch)	32
		- Aspect ratio(W:H)	1:1.25 to 1:1.34	
		- Width & Height of the image	420 pixels (W) x 525 pixels (H) i.e. 1.4" /3.5cm (W) x1.75" /4.37cm (H)	
		- Image color space	24 Bit RGB	
G01.09-00-03	Face Image data	Face image data acquisition	Loss less (Raw/PNG /Lossless JPEG2000/TIFF/ DNG) PNG	
		Storage /archival in normal memory device		
		Storage for verification in restricted memory device like smart card, mobile phone for the purpose of verification	JPEG 2000 with compression ratio up to 1:15	
		Note: For other specifications and best practices refer to GoI published Biometric standard for Face Image (http://egovstandards.gov.in/standardsandFramework/biometric-standards/view)		
G01.10 Fingerprint Image				
G01.10-00-01	Fingerprint General Record header	Information about : - Format identifier - Version no - Record length - Capture device ID - Image acquisition level - Number of fingers - Scale units	Bytes	32

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
		- Scan resolution - Scan resolution (vertical) - Image resolution - Image resolution(vertical) - Pixel depth - Image compression algorithm - Rotation angle estimation flag - Rotation uncertainty angle		
G01.10-00-02	Fingerprint Image Record Header	Information about: - Length of finger data block - Finger position - Count of views - View number - Fingerprint image quality - Impression type - Horizontal line length - Vertical line length - Rotation angle	Bytes	14
G01.10-00-03	Fingerprint Image Data	Fingerprint Image Data Acquisition Storage / Archival on Normal Memory Device Storage on Restricted memory devices like smart card, mobile phone for the purpose of verification ***Note: For other specifications and best practices refer to GoI published Biometric standard for Fingerprint image data. (http://egovstandards.gov.in/standardsandFramework/biometric-standards/view)***	loss less (Raw/PNG /Lossless JPEG2000) PNG JPEG 2000 with compression ratio up to 1:15	
G01.11 Iris Image				
G01.11-00-01	Iris Record Header	Information about: - Format ID “IIR” - Format version	Bytes	45

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
		- Length of entire record - Capture device id - No. of iris biometric sub types - Record header length - Image property bit field - Horizontal orientation - Vertical orientation - Scan type - Iris occlusions - Boundary extraction - Expected Iris diameter - Image format - Image width - Image height - Image intensity depth - Transformation to polar image - Device unique identifier		
G01.11-00-02	Iris Image Sub type Header	Information about: - Biometric subtype identifier - Number of iris images	Bytes	3
G01.11-00-03	Iris Image Header	Information about: - Image sequence number - Image quality - Rotation angle - Rotation uncertainty - Size of image data	Bytes	11
G01.11-00-04	Iris Image Data	Iris Image data acquisition Storage / Archival on Normal memory device ***Note: For other specifications refer to GoI published Biometric standard for Iris Image data (http://egovstandards.gov.in/standardsandFramework/biometric-standards/view)***	Loss Less (Raw/PNG /Lossless JPEG2000) PNG	

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G01.12	**Specimen Signature/ Thumb impression**	Scanned Image of Person's own hand written Signature /Thumb impression - Storage / Archival format - Resolution - Aspect Ratio - Dimension of Image	 PNG Minimum 300 ppi (118 ppcm) 4:1 (W:H) 256 pixels (W) x 64 pixels (H) i.e. 1.4"/3.5cm (W) x 0.44"/ 1.06 cm (H)	
G01.13-01	**Education Attained Code**	Code of Education attained by the Person Values as per code directory (CD01.03)	Integer	3
G01.14-01	**Religion Code**	Religion code of the Person Values as per code directory (CD01.01)	Integer	2
G01.15-01	**Occupation Type Code**	Current Occupation code of the Person. Values as per code directory (CD01.02)	Integer	2
G01.16	**Date of Birth Type**	Date of Birth capturing status - **V**erified (Date verified with document evidence) - **D**eclared (Date as declared & not verified with documentary evidence) - **A**pproximate (Date derived from mentioned age in years as on a particular date	Char	1
G01.17	**Live Status**	It represents live status of a person like: - **A**live - **D**ead	Char	1

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
		Default value is "A"		
G01.18	**Visible Identification marks**	Description of any other physical identification marks on body for visual inspection	Varchar	50

Note: The other characteristics like Date of Birth, Permanent Residential Address, and Present Residential Address would be derived from the list of Common Generic data elements & list of generic data elements for Land Region codification.

Refer Annexure- II for an illustration of Person Identification data elements derived from the Generic Data elements.

5.2.3 Generic Data Elements specific to Land Region Codification

A. Objective of Land Region Codification

- To uniquely codify / describe geographically, a Land region and location of various Premises like buildings, establishments, residential /non-residential units, commercial units, institutes, land marks etc.

- To identify Generic data elements associated with land regions, standardization of their metadata (business formats, validation checks, values, declarations, version, and ownership etc.), to meet requirements of interoperability for vertical / horizontal data exchange between various domain applications in e-Governance.

- To identify data elements / attributes associated with Address Location.

- To geographically represent the Address of a Premises to be taken up in (Phase - II)

B. Specification of Data Elements for Land Region Codification

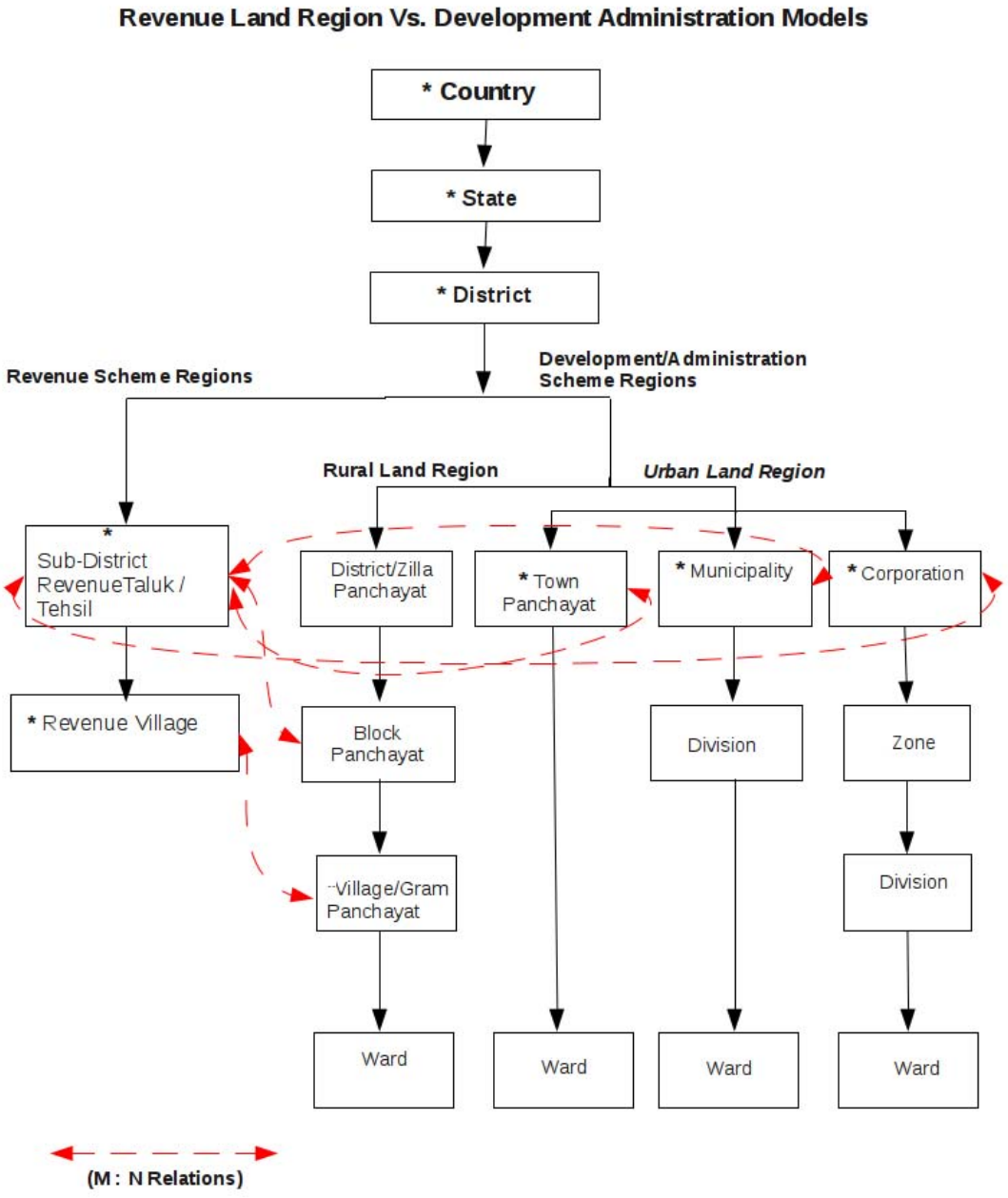
Two Types of Land Region models in India

a. Based on **Revenue Land Region**, which is adopted by Office of Registrar General of India for the purpose of Census.

b. Based on **Development Administration** like Village/ Block / District Panchayat, Town Panchayat, Municipality, Corporation etc, as depicted below:

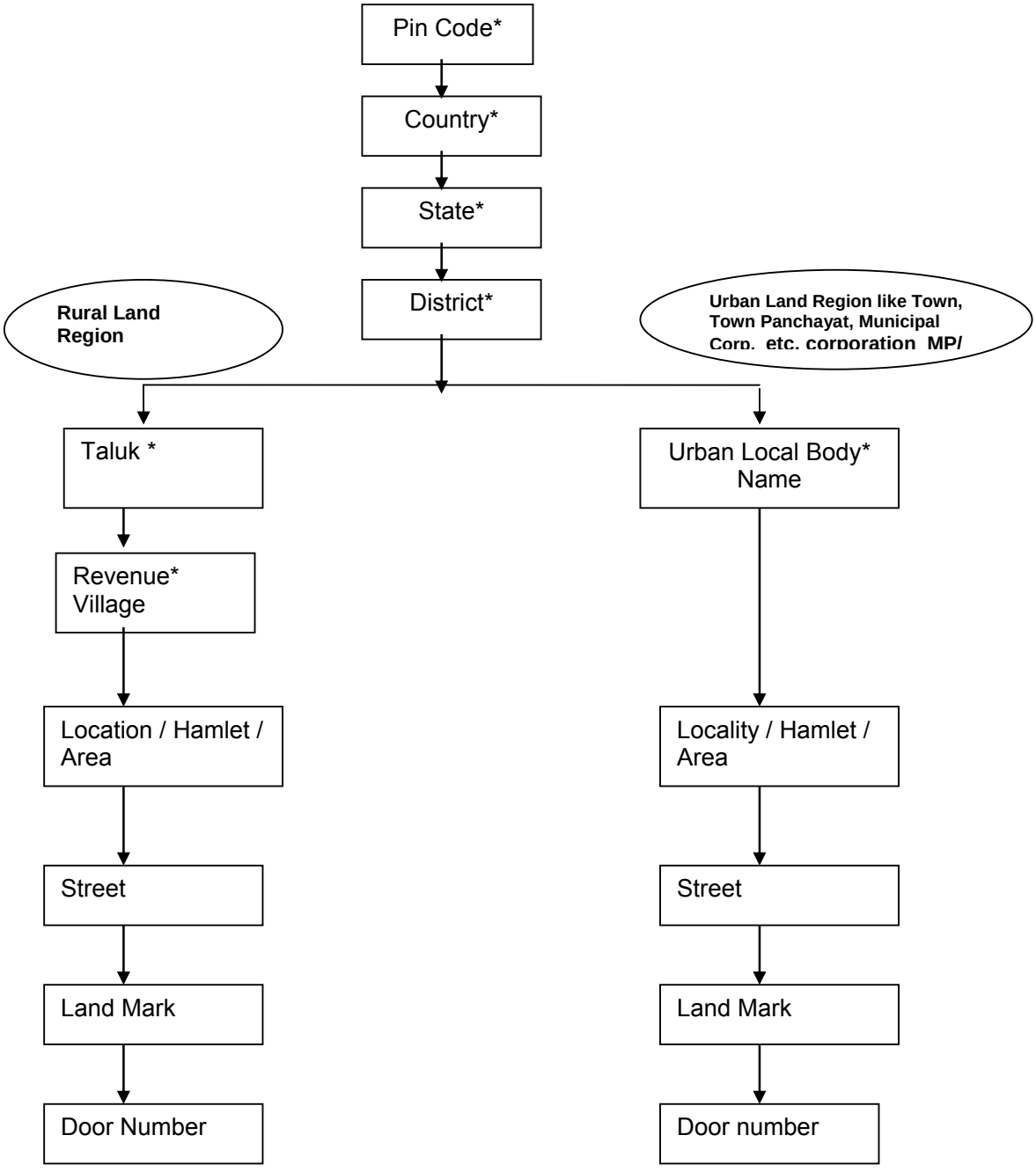
Note: Revenue Land Region model has been adopted for Land Region codification by the Expert Committee for MDDS.

Revenue village has been taken as smallest unit of Land region, for the purpose of standardization in the present version of the document.



*** Land Region Codified in the present version of the document**

C. Codification of Address of Premises



*** Land Region Codified in the present version of the document**

The Address of premises has mainly two components:

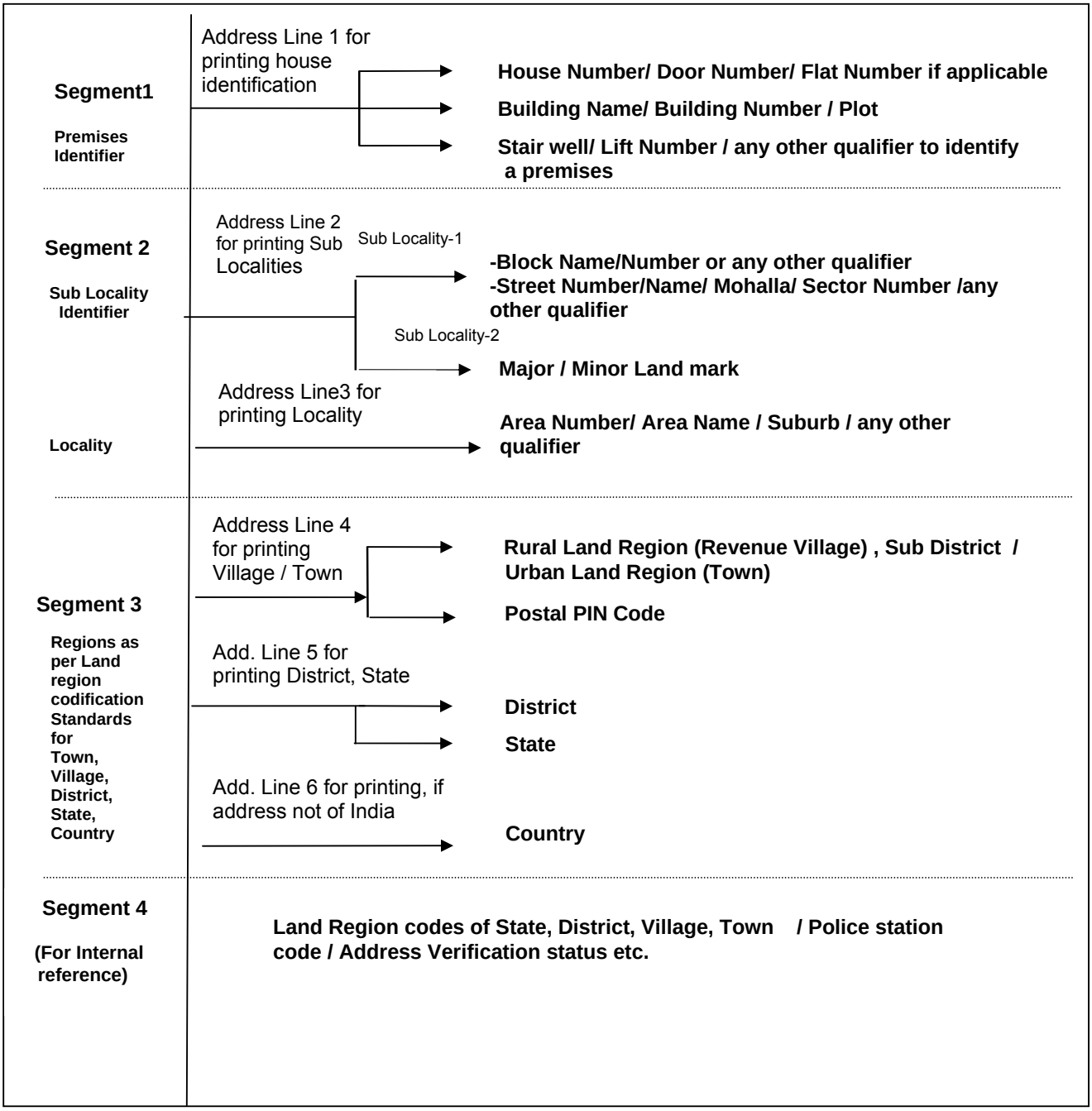
- House / Locality Details (Coding not Standardized in this document)
- Land Region Details (Coding Standardized in this document)

Note: There could be a requirement of storing the address of a premises bilingually (English and Recognized Official language of the State). In such cases, usually, the data is captured in local language, and stored in English also. For this purpose, either the data will have to be captured in both the languages or there should be a mechanism to transliterate / translate the data from local language to English or vice versa, accurately without losing its meaning. This issue is NOT addressed in this document.

D. Segmented Approach for Address of Premises would be as follows:

- Segment 1 – Premises Identifier
- Segment 2 - Sub-locality Identifier
- Segment 3 - Land Region Identifier (Revenue Village / Town / District / State)
- Segment 4 - Additional data elements / attributes for internal storage only, which may be required for different purposes and interoperability with other domain applications.

The above has been diagrammatically explained below along with recommended printing of address lines:


Segment1
Premises Identifier
Address Line 1 for printing house identification
House Number/ Door Number/ Flat Number if applicable
Building Name/ Building Number / Plot
Stair well/ Lift Number / any other qualifier to identify a premises
Segment 2
Sub Locality Identifier
Address Line 2 for printing Sub Localities
Sub Locality-1
-Block Name/Number or any other qualifier
-Street Number/Name/ Mohalla/ Sector Number /any other qualifier
Sub Locality-2
Major / Minor Land mark
Address Line3 for printing Locality
Locality
Area Number/ Area Name / Suburb / any other qualifier
Segment 3
Regions as per Land region codification Standards for Town, Village, District, State, Country
Address Line 4 for printing Village / Town
Rural Land Region (Revenue Village) , Sub District / Urban Land Region (Town)
Postal PIN Code
Add. Line 5 for printing District, State
District
State
Add. Line 6 for printing, if address not of India
Country
Segment 4
(For Internal reference)
Land Region codes of State, District, Village, Town / Police station code / Address Verification status etc.

5.2.3.1 Generic Data Elements to describe a Land Region

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G02.01	**Land Region Code (LRC)**	A unique code allocated by Office of RGI at National level, for administrative units like State/ District / Sub District /Rural Region (Revenue Village) / Urban Region (Town) / any other Land identifier, to be used by domain applications for the purpose of interoperability among e-Governance applications, while exchanging Land region data	Integer	**State -** 2 **District -** 3 **Sub-District -** 5 **Village -** 6 **Town -** 6
G02.02 Name of Land Region				
G02.02-01	Name of a Land region in English	Name of: Country / State / District / Sub District / Rural Land region (Revenue Village) / Urban Land region (Town) / any other Land identifier preferably in CAPITAL Letters	Varchar	50
G02.02-02	Name of Land region in Recognized Official language	Name of: Country / State / District / Sub District / Rural Land region (Revenue Village) / Urban Land region (Town) / any other Land identifier	Varchar Storage in UNICODE Standard UTF-8	50
G02.05	**Geocode**	Geocode within a Land region (to be taken up in Phase-II)		
G00.02-22	**Area in Sq.Km**	Measurement of Land Region area in Sq.Km	Decimal (15,3)	15

Note: Land region is a domain hence the common generic data element for measurement in Sq.Km (G00.02-22) has been adopted and value of 'p' has been standardized for this domain as "15".

5.2.3.2 Data Elements to describe Premises

The following structure is applicable for Address of Premises representing a Commercial unit or a Residence in an Urban Land Region (Town) as well as Rural Land Region (Revenue Village).

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G02.03 Address of a Premises				
G02.03-00 Premises Identifier				
G02.03-00-01	Address Type	Address type - Residential - Commercial	Varchar	15
G02.03-00-02	Premises Identifier	-House Number. / Door Number / House Identifier /Flat Number - Building Number. / Plot Number - Building Name / Building Identifier - Stairwell / Lift Number	Varchar	60
G02.03-00-03 Sub Locality / Locality Identifier				
G02.03-01-03	Sub Locality-1	-Block Name/Number or any other qualifier -Street Number /Name/ Mohalla/ Sector Number /any other qualifier	Varchar	60
G02.03-02-03	Sub Locality -2	**Major / Minor Land mark** In Urban Land region (Town) or Rural Land region (Revenue village) for easy location of Premises	Varchar	60
G02.03-03-03	Locality	Area Number/ Area Name / Suburb / Sub district in case of Village/ any other qualifier	Varchar	60

G02.04 Generic data elements for Postal Services				
Ref no. of Generic data element for its Metadata	**Name of Data element**	**Description of Data element**	**Data format**	**Maximum Size**
G02.04-01	PIN	Postal Index Number	Integer	6
G02.04-02	POST	Post Office Service Type: PO box / GPO box/Free Post / Post Bag / e-Post service	Varchar	20
G02.04-03	POSNO	Post Office Service Number: PO box / GPO box/Free Post / Post Bag / e-Post number	Integer	6
G02.04-04	DPON	Delivery Post Office Name	Varchar	30
G02.04-05	BTNO	Beat Number	Integer	2
G02.05 Generic Data Elements for Geo referencing (to be taken up in Phase- II)				
G02.05-00-01	Longitude			
G02.05-00-02	Latitude			
G02.05-00-03	Altitude			

Refer Annexure- III for an illustration of recommended data elements of Residential Address along with examples of printing sample addresses.

5.3 Code Directories

In case of certain generic data elements, their values need to be controlled and defined in advance for using them uniformly across the domain applications. Such predefined values would be stored in prescribed structure, referred as **"Code Directories"** in this document.

The identified code directories and their structures are listed below:

5.3.1 Code Directories specific to Common Generic data elements

Ref. No. of Code Directory	Name of Code Directory	Ownership (Owner of Code Directory having update rights)	Ref number for Code Directories values
CD00.01	**Measurement conversion table**	Department of Land Records	Annexure IV of the document
CD00.02	**State Recognized Language Codes Directory**	Department of Official Language, Ministry of Home Affairs	Annexure IV of the document

5.3.1.1 State Recognized Official Language Code Directory (CD00.02)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G00.05-01	Language code	Unique code for Language	Integer	2
G00.05-02	Name of State language	Name of State Recognized Official Language	Varchar	20
G00.05-03	ISO Language code	Language code as per ISO 639-3	Char	3

5.3.2 Code Directories specific to Person Identification

Ref. No. of Code Directory	Name of Code Directory	Proposed Owner of the Code Directory	Ref number for Code Directories values
CD01.01	**Religion**	Anthropological Survey of India / Office of RGI	Annexure IV of the document
CD01.02	**Occupation**	Ministry of Labour	Annexure IV of the document
CD01.03	**Education**	Department of Higher Education	Annexure IV of the document
CD01.04	**Appellation**	Ministry of Home Affairs	Annexure IV of the document
CD01.05	**Suffix**	Ministry of Home Affairs	Annexure IV of the document
CD01.06	**Relationship**	Anthropological Survey of India	Annexure IV of the document

5.3.2.1 Code Directory for Religion (CD01.01)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G01.14-01	Religion Code	Unique code for Religion	Integer	2
G01.14-02	Name of Religion in English	Name of the Religion like: Hinduism	Varchar	15

Note: Code directory should include religions in alphabetical order

5.3.2.2 Code Directory for Occupation Type (CD01.02)

Generic data element Ref no. for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G01.15-01	Occupation Type Code	Unique code for Occupation	Integer	2
G01.15-02	Name of Occupation type in English	Name of the Occupation like: Corporate Manager, Teaching Professional	Varchar	50

5.3.2.3 Code Directory for Education Attained (CD01.03)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G01.13-01	Education Attained Code	Unique code for Education	Integer	3
G01.13-02	Name of Education Attained in English	Name of the Education like: Engineering and Technology, Medicine	Varchar	30

5.3.2.4 Code Directory for Appellation (CD01.04)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G01.05-01	Appellation Code	Unique code for Appellation	Integer	2
G01.05-02	Name of Appellation in English	Appellation to be prefixed with name of the Person like: Mr., Mrs.	Varchar	15

Note: It is recommended that Appellation codes equivalent in all Recognized Official languages should be tabulated and standardized.

5.3.2.5 Code Directory for Suffix attached with name (CD01.05)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G01.06-01	Suffix Code	Unique code for Suffix	Integer	2
G01.06-02	Name of Suffix in English	Suffix to be used with Person's Name to indicate positional title like: IAS, IFS, etc.	Varchar	15

5.3.2.6 Code Directory of Relationship (CD01.06)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G01.08-01	Relationship Code	Unique code for Relationship	Integer	2
G01.08-02	Name of Relationship in English	Name of Blood Relationship with the Head of family like Sister, Husband, Wife, Self , Spouse etc.	Varchar	20

5.3.3 Code Directories specific to Land Region Codification

Ref. No. of Code Directory	Name of Code Directory	Ownership (Owner of Code directory having update rights on the basis of notifications issued by Competent Authorities)	External reference for values of Code Directories
CD02.01	Country	ISO 3166-1 alpha-3 Standard	http://en.wikipedia.org/wiki/ISO_3166-1_alpha-3
CD02.02	State	Office of RGI	http://www.censusindia.gov.in/
CD02.03	District	Office of RGI	http://www.censusindia.gov.in/
CD02.04	Sub-District	Office of RGI	http://www.censusindia.gov.in/
CD02.05	Rural Land Region (Revenue Village)	Office of RGI	http://www.censusindia.gov.in/
CD02.06	Urban Land region (Town)	Office of RGI	http://www.censusindia.gov.in/
CD02.07	Police Station	NCRB (National Crime Record Bureau)	
CD02.08	Geo-code	To be addressed in Phase- II	

Note:

a. ***Over the years Office of Census Commissioner, India while conducting the decadal census, has developed code directories for a number of variables and standardized definitions etc. These are available on their web site also. Moreover, a number of Departments / Organizations have become conversant with these parameters. The committee recommends that this practice can continue till the identified code directories owners review the values in the code directories and decide to revise them.***

b. ***Responsibility of maintenance of Centralized Repository Code Directory including allocation of new Land Region codes would be with Office of Registrar General of India (ORGI) on the basis of notification of changes for the same issued by Competent State Authorities from time to time.***

c. ***Refer to Annexure IV for values in the Code Directories, as on date. The Standards website may be visited on regular basis to get latest updations.***

5.3.3.1 Code Directory of Country (CD02.01)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G02.01	Country Short Name Code (CSNC) (primary key)	Unique Country Short Name Code at International level	Char	3
G02.02-01	Country Name in English (CNE)	Name of the Country in English (Capital letters)	Varchar	50
G00.02-22	CAreaSKM	Area of the Country in Sq.km Since various states conventionally maintain area of land regions in different units, the Measurement conversion directory(CD.00.01) may be used for this purpose.	Decimal(15,3)	15
G02.05	GC	Geocode of the country (to be taken up in Phase-II)		
G00.08	VNC	Defines Version number of the data record to be used for tracing history of changes in the values of the record related to the country data	Char	5
G00.01	DOUC	Date of last Update of the record	Date (dd/mm/yyyy)	10

Examples:

Country Name	CSNC	CAreaSKM in Sq.km	Geo code (GC)	Version Number for country (VNC)	Date of Last update of record (DOUC)
AFGHANISTAN	AFG	652,090.000	In Phase-II	1.0	
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	SGS	3,903.000	---do---	1.0	
INDIA	IND	3,287,590.000	----do----	1.0	

5.3.3.2 Code Directory of State (CD02.02)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data Element	Data format	Maximum Size
G02.01	State LRC (SLRC)	A unique land region code allocated by Office of RGI at National level, for administrative unit, **State** for the purpose of interoperability among e-Governance applications, while exchanging the Land region related data	Integer	2
G02.02-01	SNE	State Name in English	Varchar	50
G02.02-02	SNOL	Name of State in Recognized Official Language	Varchar Storage in UNICODE Standard UTF-8	50
G00.05-01	SOLC	State Recognized Official Language Code	Integer	2
	NSD	Nomenclature of Sub-District in the State (Sub district, Tahsil, Taluk, Revenue circle etc.) (Refer CD02.02 in Annexure IV for complete list)	Varchar	15
G00.02-22	SAreaSKM	Area of the State in Sq.km	Decimal(15,3)	15
G02.05	GS	Geocode of the state (to be taken up in Phase-II)		
G00.08	VNS	Defines Version number of the data record to be used for tracing history of changes in the values of the record related to the State data	Char	5
G00.01	DOUS	Date of last Update of the record	Date (dd/mm/yyyy)	10

Example:

State Land Region Code (SLRC)	State Name In English	SNL	SOLC	NSD	SAreaSKM In Sq.km	GS	VNS	DOUS
1	JAMMU AND KASHMIR	جموں اور کشمیر	22	Tahsil	2,22,236.000	In Phase-II	1.0	
2	HIMACHAL PRADESH	हिमाचल प्रदेश	06	Tahsil	55673.000	----do----	1.0	

5.3.3.3 Code Directory of District (CD02.03)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G02.01	District LRC (DLRC)	A unique code allocated by Office of RGI at National level, for administrative unit, **District** for the purpose of interoperability among e-Governance applications, while exchanging the Land region related data	Integer	3
G02.01	SLRC	Parent State Land Region code for District	Integer	2
G02.02-01	DNE	District Name in English	Varchar	50
G02.02-02	DNL	District Name in Recognized Official Language of the State	Varchar Storage in UNICODE Standard UTF-8	50
G00.02-22	DAreaSKM	Area of the District in Sq.km	Decimal (15,3)	15
G02.05	GD	Geocode of the District to be taken up in Phase-II)		
G00.08	VND	Defines Version number of the data record to be used for tracing history of changes in the values of the record related to the District data	Char	5
G00.01	DOUD	Date of last Update for record	Date (dd/mm/yyyy)	10

Example:

DLRC	SLRC	DNL	DNE	DAreaSKM in Sq.km	GD	VND	DOUD
1	1	کپواڑا	KUPWARA (District)		--do---	1.0	
23	2	चंबा	CHAMBA		--do--	1.0	

Here "KUPWARA" is a District of parent State JAMMU & KASHMIR

"CHAMBA" is a District of parent State HIMACHAL PRADESH

5.3.3.4 Code Directory of Sub-District (CD02.04)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G02.01	Sub-District LRC (SDLRC)	A unique code allocated by Office of RGI at National level, for administrative unit, **Sub-District** for the purpose of interoperability among e-Governance applications, while exchanging the Land region related data	Integer	5
G02.01	SLRC	Parent State Land Region code for Sub District	Integer	2
G02.01	DLRC	Parent District Land Region code	Integer	3
G02.02-01	SDNE	Sub- District name in English	Varchar	50
G02.02-02	SDNL	Sub- District name in Recognized Official Language of the State	Varchar Storage in UNICODE Standard UTF-8	50
	NSDT	Nomenclature of Sub-District used in the state: -Tahsil -Taluk -C.D. Blocks -Sub Division -Circle -R.D Blocks -Mandal -Police Station (For the purpose of standardization, the above nomenclatures used by various states would mean Sub-District only)	Varchar	15
G00.02-22	SDAreaSKM	Area of the Sub District in Sq.km	Decimal (15,3)	15
G02.05	GCSDC	Geocode of the Sub District (to be taken up in Phase-II)		
G00.08	VNSD	Defines Version number of the data record to be used for tracing history of changes in the values of the record related to the sub district data	Char	5
G00.01	DOUSD	Date of last Update for record	Date (dd/mm/yyyy)	10

Example: of a Sub District

SDLRC	SLRC		(SDNE)	SDNL	NSDT	SDArea SKM (In Sq.km)	GCSDC	VNSD	DOUSD
1	1	1	KUPWARA	ہندواڑہ	Tahsil		----do---	1.0	
83	2	23	PANGI	पांगी	Tahsil		----do---		

Here "KUPWARA" is a Sub District of parent State JAMMU & KASHMIR and District KUPAWARA

"PANGI" is a Sub District of parent State HIMACHAL PRADESH and District CHAMBA

5.3.3.5 Code Directory of Rural Land Region (Revenue Village (CD02.05))

In a sub-district, there can be two types of land regions like Urban Land Region and Rural land Region.

A land region like a Town / Municipal Corporation / Municipality/ Cantonment board etc., **notified through Nagar Palika Act** is categorized as Urban land region, and rest is categorized as **Rural Land Region**.

Following is the structure of code directory for Rural Land Region (Revenue Village)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G02.01	Village LRC (VLRC)	A unique code allocated by Office of RGI at National level, for administrative unit, **Revenue Village** for the purpose of interoperability among e-Governance applications, while exchanging the Land region related data	Integer	6
G02.01	SLRC	Parent State Land Region code	Integer	2
G02.01	DLRC	Parent District Land Region code	Integer	3
G02.01	SDLRC	Parent Sub District Land Region code	Integer	5
G02.02-01	VNE	Rural Land region (Revenue Village) name in English	Varchar	50
G02.02-02	VNL	Rural Land Region (Revenue Village) Name in Recognized Official Language of the State	Varchar Storage in UNICODE Standard UTF-8	50
	VStatus	Current Status of Rural Land U- Un-inhabitant I- Inhabitant T- Notified as town ***Note : Reserve Forest Area (RFA) and Census Town (CT) also included with indication of RFA and CT suffixed with the name of the rural land region within brackets***	Char	1
G02.01	VTLRC	In case of Vstatus = "T", Land region code of the town in which revenue village got associated	Integer	6
G00.02-22	VAreaSKM	Area of the Rural Land region (Revenue village) in Sq.km	Decimal (15,3)	15
G02.05	GV	Geocode of the Rural Land Region		

		Revenue village) (to be taken up in Phase-II)		
G00.08	VNV	Defines Version number of the data record to be used for tracing history of changes in the values of the record related to the Village data	Char	5
G00.01	DOUV	Date of last Update for record	Date (dd/mm/yyyy)	10

Note: In case, a Revenue Village becomes part of Urban Land Region, its data will not be deleted from the Revenue Village code directory, but its status would change to" notified as part of Town"

VLRC	SLRC	DLRC	SDLRC	VNE	VNL	V Status	VAreaSKM (in Sq.km)	GV	VNV	DOUV
1	1	1	1	BORE	بور			-do-		
2	1	1	1	KERAN				-do-		
3	1	1	1	BUGNA				-do-		
6552	2	23	83	LUJ (RFA)	लूज			-do-		
6553	2	23	83	LUJ	लूज			-do-		
6554	2	23	83	DHARWAS	धार वास			-do-		

Here "BORE", "KERAN", "BUGNA" is a Village of parent State JAMMU & KASHMIR, parent District KUPWARA and parent Sub District KUPWARA

"LUJ (RFA)", "LUJ", "DHARWAS" is a Village of parent State HIMACHAL PRADESH, parent District CHAMBA and parent Sub District PANGI

5.3.3.6 Code Directory of Urban Land Region (Town) (CD02.05)

A land region like a Town / Municipal Corporation / Municipality/ Cantonment board etc., **notified through Nagar Palika Act** is categorized as **Urban Land Region**

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G02.01	Town LRC (TLRC)	A unique code allocated by Office of RGI at National level, for Urban Land Region (**Town)** for the purpose of interoperability among e-Governance applications, while exchanging the Land region related data Here, Town can be a Town Panchayat/Census town/Municipality, Corporation or a Notified Area	Integer	6
G02.01	SLRC	Parent State Land Region code	Integer	2
G02.01	DLRC	Parent District Land Region code (For Addressing, in the case of Town spanning across two or more Districts, it will be indicated by value 0, and detailing will be given through linkage with another code directory CD02.05-01)	Integer	3
G02.01	SDLRC	Parent Sub-District Land Region code (For Addressing, in the case of Town spanning across two or more Sub Districts, it will be indicated by value 0, and detailing will be given through linkage with another code directory CD02.05-01)	Integer	5
G02.02-01	TNE	Urban Land Region (Town) Name in English	Varchar	50
G02.02-02	TNL	Urban Land Region (Town) Name in Recognized Official Language of the State	Varchar Storage in UNICODE Standard UTF-8	50
	Town Status	Status of Urban Land Region (Town)	Varchar	6

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
		C.B. Cantonment board/Cantonment C.M.C City Municipal Council E.O Estate Office G.P Gram Panchayat I.N.A Industrial Notified Area I.T.S. Industrial Township M Municipality M.B. Municipal Board M.C Municipal Committee M.Cl Municipal Council M.Corp. Municipal Corporation/Corporation N.A. Notified Area N.A.C Notified Area Committee/Notified Area Council N.P Nagar Panchayat N.T Notified Town N.T.A Notified Town Area S.T.C Small Town Committee T.C. Town Committee/Town Area Committee T.M.C Town Municipal Council T.P Town Panchayat T.S. Township		
G00.02-22	TAreaSKM	Area of the Urban Land region (Town)in Sq.km	Decimal (15,3)	15
G02.05	GT	Geocode of the Town (to be taken up in Phase-II)		
G00.08	VNT	Defines Version no. of record	Char	5
G00.01	DOUT	Date of last Update for record	Date (dd/mm/yyyy)	10

Example:

TLRC	SLRC	DLRC	SDLRC	TNE	TNL	Town Status	TAreaSKM (in Sq. km)	GRV	DOUT
800001	1	1	1	KUPWARA (MC)	کپواڑا			-do-	
800002	1	1	2	HANDWARA (MC)				-do-	
800010	1	4	13	KARGIL (MC)				-do-	
800087	2	23	87	DALHOUSIE (CB)	डलहौजी	CB			
800088	2	23	87	DALHOUSIE (M Cl)	डलहौजी	MCl			
800089	2	23	88	BAKLOH (CB)	बकलोह	CB			

Here "KUPWARA (MC)", "HANDWARA (MC)", are Towns of parent State JAMMU & KASHMIR, parent District KUPWARA and Sub District KUPWARA

"DALHOUSIE (CB)", and "DALHOUSIE (M CI)" are Towns of parent State HIMACHAL PRADESH, parent District CHAMBA and Sub District DALHOUSIE

5.3.3.6.1 Code Directory of Urban Land Region (Town) cutting boundaries across District / Sub District (CD02.05-01)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G02.01	Town LRC (TLRC)	A unique code allocated by Office of RGI at National level, for Urban Land Region (**Town)** for the purpose of interoperability among e-Governance applications, while exchanging the Land region related data Here, Town can be a Town Panchayat/Census town/Municipality, Corporation or a Notified Area	Integer	6
G02.01	DLRC	District Land Region code for Town cutting boundaries across Districts	Integer	3
G02.01	SDLRC	Sub District Land Region code for Town cutting boundaries across Sub Districts	Integer	5

5.3.3.7 Code Directory of Police Station (CD02.07)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format	Maximum Size
G02.01	PSC (primary key)	Code of Police Station	Integer	6
G02.01	State LRC (SLRC)	State land region code where Police Station is located.	Integer	2
G02.01	District LRC (DLRC)	District code where Police Station is located	Integer	3
G02.02-01	PSNE	Police Station name in English	Varchar	50
G02.02-02	PSNL	Police Station name in Recognized Official Language of the State	Varchar Storage in UNICODE Standard UTF-8	50
G02.05	GPS	Geocode of the Police Station (to be taken up in Phase-II)		
G00.08	CVPS	Defines Version no. associated with Police Station location Code	Char	5
G00.01	DOUPS	Date of Last Update for Police Station	Date (dd/mm/yyyy)	10

Example:

PSC (Police Station code)	SLRC / State Name	DLRC / District Name	PSNE	PSNL	GPS
	08 / Delhi			दिल्ली	In Phase-II
		08**162** / Central District			----do----
0816**208**			Chandni Mahal	चाँदनी महल	----do----
0816**210**			Darya Ganj	दरिया गंज	----do----
0816**240**			Pahar Ganj	पहाड़ गंज	----do----

Note: The Police Station Code Directory values, shown in the example, are taken as per the present data given by NCRB (National Crime Record Bureau), which does not match with Land Region Codes allocated by ORGI. However, these need to be changed, once the Standard is notified and enforced.

5.3.3.8 Geo-code Referencing Directory (to be taken up in Phase-II) (CD02.08)

Ref no. of Generic data element for its Metadata	Name of Data element	Description of Data element	Data format at Interface level	Finalization Status
G02.05-01	Geocode	Land Region Code (Country/ State/District/ Sub District/ Town / Village)		
G02.05-01-01	Longitude		As per UTM coordinates	
G02.05-01-02	Latitude		As per UTM coordinates	
G02.05-01-03	Altitude	It defines Mean sea level		

5.4 Metadata of Generic Data Elements

Template for Meta Data of Data Elements:

Based on eGIF (e-Governance Interoperability Framework) Standard of UK

#	Item	Description
1	Name	Name / Number of the Generic or Custom Data Element
2	Description	A simple and ambiguous definition of Generic or Custom Data Element.
3	Type	Generic or Custom Generic : commonly used data element across different e-Governance applications. Custom: Used in a particular application only
4	Is Part of	
5	Parts if any	
6	Data Format	Varchar/Character/Decimal(for real/ floating number) / Integer(Whole number)/Date etc Recommended style of printing / display, if required so
7	Max Size	Maximum Size of the data element
8	Validations	Generic Validations for Generic Data and Specific Validations for Custom Data to be applied for acceptance of data.
9	Values	List of Acceptable Values
10	Default Value	For any list of values, the default value to be used unless otherwise stated.
11	Owner	Name(s) of the departments who owns the Data element/ Code Directory and has the rights for updating.
12	Based on	Reference to document / standard / agency on the basis of which the data element is standardized by the Expert committee for MDDS
13	Version	The version number of Data element
14	Status	Current status of Standard (Draft or Accepted)
15	Date Agreed	The date on which this version was accepted as Data Standard for Government.
16	Verification	Steps taken to establish the correctness of Generic or Custom Data Elements. Such steps taken for different level of verifications by departments will be detailed here.
17	Comments	Additional Notes, if any
18	Date of Publishing	The date on which Standard is Published or HTML or PDF version will be created

5.4.1 Metadata of Common Generic Data Elements

Name of Data Element : **Date (G00.01)**	
Description of Data Element	Date as per Indian Date Conventions
Data Element Type (Generic / Custom)	Generic
Is Part of	
Parts, if any	Day → **G00.01-00-01** Month →**G00.01-00-02** Year → **G00.01-00-03**
Data Format	Date (**dd/mm/yyyy)**
Max Size	10 (**dd/mm/yyyy)**
Validation	- **yyyy** should be a valid year number - **mm** in Range 01-12 - **dd** not to be greater than 30 in April, June, Sept & Nov - **dd** not to be greater than 31 in of Jan, Mar, May, July, Aug, Oct, Dec - **dd** not to be greater than 28 in Feb, except leap year, when value 29 is allowed
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	As decided by the Expert Committee for MDDS
Version	1.0
status	Accepted
Date agreed	
Verification	
Comments	"/" to be used as delimiter for representation of Date
Date of Publication	16/11/2011

Example: - **08/12/2008**
08 -represents day
12 -represents month
2008-represents year

Name of Data Element : Measurement (G00.02)	
Description of Data Element	The process of ascertaining dimensions (Distance, area, volume) & quantity (weight) in Metric system of measurement. For the purpose of uniformity, two decimal places have been standardized for this generic data element across the domain applications, and maximum size has been "p" marked: **Measurement of Distance in:** Meters (Meters) G00.02-11 Kilometers (km) G00.02-12 Centimeter (cm) G00.02-13 Millimeters (mm) G00.02-14 **Measurement of Area in:** Square Meters (Sq.meter) G00.02-21 Square Kilometers(Sq.km) G00.02-22 Square Centimeters(Sq.cm) G00.02-23 Square Millimeters (Sq.mm) G00.02-24 Hectares G00.02-25 **Measurement of Volume in:** Cubic Meters (Cu.meter) G00.02-31 Cubic Kilometers (Cu.km) G00.02-32 Cubic Centimeters(Cu.cm) G00.02-33 Cubic Millimeters (Cu.mm) G00.02-34 **Measurement of Weight in:** Grams(Grams) G00.02-41 Kilograms (kg) G00.02-42 ***Note: basic unit of measurement is Meter / Gram. More instances can be added for storage of measurement in other units, in future.***
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Decimal(p,3)
Max Size	Value of "p", the maximum size of the data element, would be decided by a domain depending upon the specific requirements of the applications in that domain.
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology

Based on	SI units, ISO 1000:1992, and as decided by the Expert Committee for MDDS
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	Specific to Land Region Codification: Since various states conventionally maintain area of land regions in different units, the Measurement conversion directory(CD.00.01) may be used for this purpose
Date of Publication	16/11/2011

Example: Area of Tahsil in Square Kilometers is 55673.000

Table of domain wise standardization of value of "p" for Generic Data Element: Measurement of Area in Square Kilometers (G00.02-22)

Domain Name	Value of p	Data Format
Land Region	15	Decimal(15,3)

Note: The above table will go on expanding based on standardization of values of "p" for different domains

Name of Data Element : Financial year (G00.03)	
Description of Data Element	**Financial Year**
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Char (nnmm-(mm+1))
Max Size	7
Validation	nnmm should be a valid Year number
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	As decided by the Expert Committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Example: - Financial year: **2008-09**

Name of Data Element : Amount (G00.04)	
Description of Data Element	**Amount** - Amount must be stored in Rupees. - - Amount must be stored in the database as Numeric value along with two digits for paise -The amount should be printed in Indian Standard For printing purpose there is a function to convert Numeric value into the Character (Crore, lakh, Thousand, Hundred) & (paisa).
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Decimal(p,2)
Max Size	"p" , the maximum size of the data element would depend upon the specific requirements of applications in a domain, hence kept variant. Domain applications can customize / standardize the maximum size accordingly. However, for the purpose of uniformity, two decimal places have been standardized for this generic data element across the domain applications, and maximum size has been marked as "p".
Validation	It must be a positive number (Amount value >=0)
Values	
Default value	0.00
Owner	Government of India, Department of Information Technology
Based on	As decided by the Expert Committee for MDDS
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	The number before the decimal point in RUPEES and the Number after the decimal point in PAISE. **For display / printing of amount in Rupees:** - The amount along with two decimals for paise should be prefixed with ₹ (the new symbol for Rupee) without a gap between Rupee symbol and the amount. "," to be used to segregate hundreds, thousands, lacs, crores etc.
Date of Publication	16/11/2011

Table of domain wise standardization of value of "p" for Generic Data Element: Amount (G00.04)

Domain Name	Value of p	Data Format
Banking	16	Decimal(16.2)

Note: The above table will go on expanding based on standardization of values of "p" for different domains

Example for printing amount:

₹ 2,34,55,255.50

Two Crore, Thirty Four Lakh, Fifty Five Thousand, Two Hundred Fifty Five Rupees & Fifty Paisa only

One Hundred Rupees = ₹100.00
One Thousand Rupees = ₹1,000.00
One Lakh Rupees = ₹100,000.00
One Crore Rupees = ₹10,000,000.00 etc.

Name of Data Element : Language code (G00.05-01)	
Description of Data Element	Defines State Recognized Official Language code & A code for English Language / other languages.
Data Element Type (Generic/Custom)	Generic
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validations	
Values	Values taken from Language Code Directory (CD00.02)
Default Value	99
Owner	Department of Official Language, Ministry of Home Affairs
Based on	Indian Census 2001, ORGI for language code ISO 369-3 for alphabetical Language Code.
Version	1.1
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Example: language code **06** for Hindi as per ORGI

Language code as per ISO 639-3 **hin** for Hindi

Name of Data Element : Telephone No (G00.06)	
Description of Data Element	Landline or Mobile number allotted to a subscriber by a service provider along with various prefixes for trunk dialing / International dialing Here, Landline number means a phone number allocated by a service provider for transmission of communication signals through a hard-wired (metal cable / optical fiber) or wireless system. Mobile number means a phone number allocated to a subscriber by a mobile network operator for transmission of communication signals through radio waves. In addition to telephony, modern mobile phones also support a wide variety of other services such as text messaging, MMS, e-mail, Internet access, short-range wireless communications (infrared, Bluetooth), business applications, gaming and photography. Mobile phones that offer these more general computing capabilities are referred to as smart phones also.
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	-International Access Code **G00.06-00-01** -Country code **G00.06-00-02** -Trunk Prefix **G00.06-00-03** - Area Code **G00.06-00-04** **- Phone Number** (With two instances for Landline number & Mobile Number) - Landline number **G00.06-01-05** - Mobile number **G00.06-02-05**
Data Format	Varchar
Max Size	16 including the codes used for prefixing of parts
Validation	- International Access Code Varchar(3) with value “00” for dialing a telephone number outside India - Country Code Varchar(3) with value “91” for India - Trunk Prefix: Char(1) with value “0” - Area Code (2-4) Varchar(4) - Landline number (6-8) Varchar(8) Note: Total no. of character for area code & Subscriber number should be 10 digits

	For Landline number: **Local calls** : Landline number itself **Calls within India – 11 digits** (Trunk prefix - Area code - Landline number) **For calls to India from outside Country – Maximum 15 digits** (International Access Code of the concerned country - Country code of India - Area Code - Landline number) **For calls from India to an outside country** (International Access Code of India (value "00" + Country code of the specific country - Area Code & particular Landline number) **For Mobile number** **Local Calls : 10 digits** **Calls within India – 11 digits (T**runk prefix - Mobile no) **For calls to India from outside Country - Maximum 15 digits** (International Access Code of the concerned country - Country code of India - Mobile no) **For calls from India to outside country** (International Access Code of India (value "00") - Country code of the specific country - Area Code & particular Mobile number)
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	**ITU-TE.164 for Country code & Department of Telecommunications**
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	**The international Access Code (** referred as exit code also), **of India is 00.** For calls *to* India from abroad (ISD calls) , the appropriate International access code should be dialed, followed by **91,**

	followed by the area code , followed by the phone number. STD code in BSNL terminology means Trunk prefix value and area code
Date of Publication	16/11/2011

Examples:

A. For Landline

A1. When a Person dials within INDIA

For example: Local call – Landline number: **2641939**

A2. Call from anywhere in India

Trunk prefix - (area code - Landline number)

For example: 0 - 145 - 2641939 **i.e. 01452641939**

(Here 0145 is STD number as per BSNL terminology)

A3. When a person dials to India from some other Country

International Access Code of that country - Country code of India - (Area Code + Landline number)

For example: Call from USA to a land line in India

011 - 91 - 11 - 24356987

i.e. **011911124356987**

A4. When a person calls a landline of a country outside India :

International Access Code of India - country code of specific country - particular Landline number

For example: Call from India to a landline in USA

00 - 1 - 615216776

i.e 001615216776

B. For Mobiles:

Local Calls – Mobile number 9213546987

From any where in India = Trunk-prefix - Mobile no

For example: 0 - 9213546987

i.e. **0 9213546987**

When a person dials to India from some other country

International Access Code of that country - Country code of India - Mobile Number

For example: Call from USA to a mobile in India

011 – 91- Mobile Number

i.e. **011919896875214**

When a person calls a mobile number of a country outside India:

International Access Code of India - country code of specific country - particular mobile number

For example: Call from India to a landline in USA

00 - 1- 617516781

i.e. 001617516781

Refer http://www.howtocallabroad.com/codes.html **for list of International Access Code(also called Exit Code) and Country Codes**

Name of Data Element : Calendar year (G00.07)	
Description of Data Element	**Calendar Year**
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Char
Max Size	4 (yyyy)
Validation	yyyy should be a valid Year number.
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	As decided by the Expert Committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Example: - **2008** calendar year

Name of Data Element : Version no (G00.08)	
Description of Data Element	A unique number or set of numbers assigned to a specific release of an entity Here entity can be a document, software, data element, Hardware device etc.
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Char
Max Size	5
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	As decided by the Expert Committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Example: PAO Software Version 1.5

Data element “Date “Version 1.0

Name of Data Element : Email (G00.09)	
Description of Data Element	Defines Email address / User Id of a Person / Organization with structure username@domainname
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	254
Validation	The string before the symbol “@” would be user name and string after the symbol “@” would be domain name of the email server
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	IETF RFC2822 and as decided by the Expert Committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	In an organization, it is recommended that, there should be an uniform way of allocation of email IDs for employees. One of the recommended ways is: 1st given name.surname(running s.no, for 2nd repeat onwards)@domainname
Date of Publication	16/11/2011

Example: sumit.ghani@nic.in

5.4.2 Metadata of Generic Data Elements for Person Identification

Name of Data Element : Unique Identification Number (G01.01)	
Description of Data Element	Unique Identification (UID) Number to be allocated by UIDAI to every Indian Citizen, which would enable interoperability of data related to a Person in various Domain applications
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Integer (UIDAI has used Number, which is synonymous with Integer as per ANSI 92 data type)
Max Size	12
Validation	
Values	
Default value	
Owner	Unique Identification Authority of INDIA (UIDAI),
Based on	UID structure decided by UIDAI , UID DDSVP Committee, report Version 1.0, Dec 09, 2009
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	Print and display format should be NNNN-NNNN-NNNN
Date of Publication	16/11/2011

Note: Using data format as" Integer" as per MDDS convention instead of Number defined by UIDAI

Name of Data Element : Name of the Person (G01.02)	
Description of Data Element	Name of a Person can be represented in different ways like: - Short name in English **G01.02-01** - Full name in English **G01.02-02** - Short name in Recognized Official Language **G01.02-03** - Full name in Recognized Official Language **G01.02-04** These are instances of Name of the Person, which can be represented in different ways / formats
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	**Refer to the formats of instances corresponding to this Generic data element**
Max Size	
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	As decided by the Expert Committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	Name of the person should not include Appellation, which is a separate data element, and would be prefixed with name of the person while displaying / printing
Date of Publication	16/11/2011

Name of Data Element : Short Name In English (G01.02-01)	
Description of Data Element	**Short Name in English** as desired to be displayed in the documents / forms. (It is a set of character strings / Initials each separated by a "blank space", representing surname / given name/ middle name/….etc. The sequencing of the strings / initials has to be in the order, in which the Person desires the short name to be displayed in the documents / forms) The full name should NOT include Appellation / title. **This is one of the instances of generic data element Name of the Person (G01.02), through which Name of the Person can be represented**
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	30
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	As decided by the Expert Committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	Name of the person should not include Appellation, which is a separate data element, and would be prefixed with name of the person while displaying / printing
Date of Publication	16/11/2011

Example:-Short name in English as desired by the Person to be displayed in the documents like:
- K.B.T.NAIR
- K.B.Timmappa Nair
- Nair Timmappa K.B.

Name of Data Element : Full Name in English (G01.02-02)	
Description of Data Element	**Full Name in English** expanded and captured in **natural order,** for the purpose of searching records and data sharing by name strings (It is a set of expanded character strings, each separated by a "blank space", representing surname / given name/ middle name/….etc in any order as per cultural practices. In the full name, it is mandatory to include all character strings and the expanded strings of initials reflected in the short name. However, the full name can have additional character strings also, which might not have been included in the short name.) It should NOT include Appellation / title. **This is one of the instances of generic data element Name of the Person (G01.02), through which Name of the Person can be represented**
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	99
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	Length according to (ICAO 9303), Free format as per OASIS- CIQ-XNL version 2.0
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	Preferably, at the time of capturing the data, the Name may be verified on the basis of some documentary evidence like Birth certificate, School leaving certificate, Ration card etc. **The sub-strings (in any order) in the full name may represent:** 1. Given name/First name (>=1) 2. Surname/Family name/Last name (>=0)

	3. Middle name (>=0) a. Patronymic-name (>=0) b. Metronymic-name (>=0) c. Generational-Identifier (>=0) d. Village Name >=0 e. Any other name type (>=0) etc. **The additional requirement of capturing information like Surname / Given name(s) is domain specific, hence NOT covered in this Standard.** However, this specific information regarding Given Name(s), Surname can be derived from Full name string, by tagging / identifying the corresponding sub-strings positions, as specified in OASIS- CIQ-XNL version 2.0. Name of the person should not include Appellation, which is a separate data element, and would be prefixed with name of the person while displaying / printing
Date of Publication	16/11/2011

Example: 1 -Full name in English (As per culture in Tamil Nadu)

→ Kagodu Bairappa Timmappa Nair

Where Kagodu: Village name
Bairappa: Father's name
Timmappa: Given name
Nair: Last / Surname

Example: 2 -Full name in English (As per culture in North India)

➔ Ram Prasad Sharma

Where
Ram - 1st Given name
Prasad - 2nd given name
Sharma - Surname

Name of Data Element : Short Name in Recognized Official language (G01.02-03)	
Description of Data Element	Short Name in **Recognized Official language** as desired to be displayed in the documents / forms. (It is a set of character strings / Initials each separated by a "blank space", representing surname / given name/ middle name/….etc. The sequencing of the strings / initials has to be in the order, in which the Person desires the short name to be displayed in the documents / forms) It should NOT include Appellation / title. **This is one of the instances of generic data element Name of the Person (G01.02), through which Name of the Person can be represented**
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	30, Storage in UNICODE Standard UTF-8
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	As decided by the Expert Committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	Name of the person should not include Appellation, which is a separate data element, and would be prefixed with name of the person while displaying / printing
Date of Publication	16/11/2011

Example: ए.के.शर्मा

Name of Data Element : Full Name in Recognized Official language (G01.02-04)	
Description of Data Element	**Full Name in Recognized Official language** expanded and captured in **natural order,** for the purpose of searching records by name strings (It is a set of expanded character strings, each separated by a "blank space", representing surname / given name/ middle name/….etc in any order as per cultural practices. In the full name, it is mandatory to include all character strings and the expanded strings of initials reflected in the short name. However, the full name can have additional character strings also, which might not have been included in the short name.) It should NOT include Appellation / title. **This is one of the instances of generic data element Name of the Person (G01.02), through which Name of the Person can be represented**
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	99, Storage in UNICODE Standard UTF-8
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	Free format as per OASIS- CIQ-XNL version 2.0
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	Preferably, at the time of capturing the data, the Name may be verified on the basis of some documentary evidence like Birth certificate, School Leaving certificate, Ration card etc. **The sub-strings (in any order) in the full name may represent:** 1. Given name/First name (>=1)

	2. Surname/family name/Last name (>=0) 3. Middle name (>=0) a. Patronymic / father's -name (>=0) b. Metronymic / mother's -name (>=0) c. Generational-Identifier (>=0) d. Village Name >=0 e. Any other name type (>=0) etc. **The additional requirement of capturing information like Surname / Given name(s) is domain specific, hence NOT covered in this Standard.** However, this specific information regarding Given Name(s), Surname can be derived from Full name string, by tagging / identifying the corresponding sub-strings positions, as specified in OASIS- CIQ-XNL version 2.0. Name of the person should not include Appellation, which is a separate data element, and would be prefixed with name of the person while displaying / printing.
Date of Publication	16/11/2011

Example1 -Full name in Hindi (As per culture in Tamil Nadu)

कागैडु बैरअप्पा तिमप्पा नायर

Where कागैडु Village name

बैरअप्पा - Father's name

तिमप्पा -Given name

नायर - Surname / last name

Example: 2 -Full name in Hindi (As per culture in North INDIA)

➔ राम प्रसाद शर्मा

Where राम - 1st Given Name

प्रसाद - 2nd Given name

शर्मा - Surname

Name of Data Element : Gender Identification Code (G01.03)	
Description of Data Element	**Gender Identification Code of a Person**
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Char
Max Size	1
Validation	
Values	**M** - Male **F** - Female **T** - Transgender
Default value	
Owner	Office of RGI
Based on	-New Zealand- e Gov Standard, (http://www.e.govt.nz/Standards/e-gif/authentication/data-formats-v1.1/chapter11.html) (broken Link. Why not use ISO/IEC 5218:2004) -Census of INDIA
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	In case of Transgender, the values in other data elements like Appellation, Relationship, etc. can be taken as opted by the concerned person
Date of Publication	16/11/2011

Name of Data Element : Marital Status (G01.04)	
Description of Data Element	Code for **Marital Status** of the Person
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Integer
Max Size	1
Validation	
Values	1 - Never Married 2 - Currently Married 3- Widow / Widower 4- Divorced 5- Separated
Default value	1- Never Married
Owner	Office of RGI
Based on	-Australian Govt Institute of Health & Welfare http://meteor.aihw.gov.au/content/index.phtml/itemId/291045 -Census of INDIA,
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Appellation Code (G01.05-01)	
Description of Data Element	An Appellation is title **for a Person to be prefixed** with His / Her name. It represents: a. Gender & Marital status like Mr., Mrs., Ms. b. Attained professional educational qualification like Dr., CA, Engineer etc. A Person can have two Appellations. ***Refer comments section for multiple Appellation concatenation at interface level.***
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For Appellation codes & Values refer to Code Directory **(CD01.04)**
Default value	
Owner	Ministry of Home Affairs
Based on	-UK government data Standard catalog, http://www.cabinetoffice.gov.uk/govtalk/schemasStandards/e-gif/dataStandards/Personinformation/Person_name/Person_title.aspx) -Census of INDIA
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	**Maximum of two Appellations are allowed as prefix to the name.** The sequence of display / printing of multiple applications would be as follows: Attained Professional Appellation, followed by the “Gender & Marital status” Appellation within brackets. The code directory for Appellation should be multilingual for all the Official Recognized Languages
Date of Publication	16/11/2011

Example of multiple Appellations:

Dr. (Mrs.) S.K Karla → A Female Doctor

Name of Data Element : Suffix Code (G01.06)	
Description of Data Element	Suffix is a title to be **suffixed** with the Name of a Person: It can be positional title like: IAS, IPS etc. (At times, it can be linked with positional title attained due to some educational qualification like**:** MD, etc.)
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For Suffix code & Values refer to Code Directory **(CD01.05)**
Default value	
Owner	Ministry of Home Affairs
Based on	As decided by the Expert committee for MDDS
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Example:- Dr. Ramesh Saini, MD

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Name of Data Element : Relation Type (G01.07-01)	
Description of Data Element	It represents, if a Person is **Head or not**, of a House hold, to whom other Persons in the house hold are related
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Char
Max Size	1
Validation	
Values	**H**-Head of household **N**-Not head of household
Default value	N
Owner	Office of RGI
Based on	Census of India
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	Relationship of other Persons with the Head of the family will have to be revised, in case the head of the family in a house hold changes, due to any reason. ***Note: The business intelligence may have to be built in by Domain application, if required so.***
Date of Publication	16/11/2011

Example:

Mr. R. Ramanujam is head of a house hold, and Ms. Ayappa Ramanujam is related to him as **Daughter**

When Mr. Ramanujam's son becomes the head, then Ms. Ayappa Ramanujam is related to him as **Sister**

Name of Data Element : Relationship Code (G01.08-01)	
Description of Data Element	**Blood relationship / Marriage relationship with Head of the family** like Husband, Wife, Daughter, Son, Self etc.
Data Element Type (Generic / Custom)	Generic
Is part of	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For Relationship codes & values refer to Code Directory **(CD01.06)**
Default value	
Owner	Anthropological Survey of India
Based on	-Australian Government (Australian institute of health & welfare) http://meteor.aihw.gov.au/content/index.phtml/itemId/351361?&addItem=1&items[]=351361&meteorItemView=long -Census of INDIA,
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	The UID number of the head of the family to be stored as attribute in Person Identification. The link will help in changing relationships, if the head of family changes due to any reason.
Date of Publication	16/11/2011

Example:-**1** - represents **Self**

4 - represents **Mother**

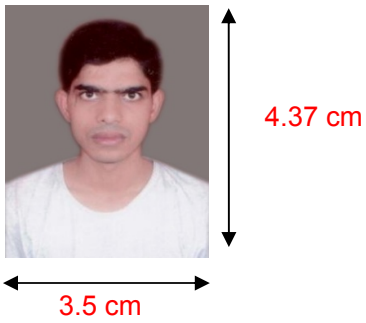
Name of Data Element : Face Image Record (G01.09)	
Description of Data Element	Photograph or face image required for human/manual verification of a Person
Data Element Type (Generic / Custom)	Generic
Is part of	
Parts if any	Face Image Data Element has the following parts: - Face Image Record Header **G01.09-00-01** - Face Image Record Data **G01.09-00-02** - Face Image Data **G01.09-00-03**
Data Format	**For the data format, refer to the Metadata of the parts**
Max Size	
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	Face Image Data Standard for e-Governance Applications prepared by Expert Committee on Biometrics and released by DIT (Version 1.0, November, 2010) & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF) , ISO/IEC 19794-5:2005 (E) Face Image Data ***(http://egovstandards.gov.in/standardsandFramework/biometric-standards/view)***
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	This Metadata is used for human verification, so features of the face are not included here.
Date of Publication	16/11/2011

Name of Data Element : Face Image Record Header (G01.09-00-01)	
Description of Data Element	It provides information about Face information format identifier, Version no, Length of records, Number of face image.
Data Element Type (Generic / Custom)	Generic
Is part of	G01.09 (Face Image Record)
Parts if any	-Format identifier - 4 bytes -Version number - 4 bytes -Length of record - 4 bytes -Number of face images - 2 bytes
Data Format	Byte
Max Size	(4+4+4+2)
Validation	
Values	For default and prescriptive values, refer Face Image Data Standard prepared by Expert Committee on Biometrics
Default value	
Owner	Government of India, Department of Information Technology
Based on	Face Image Data Standard for e-Governance Applications prepared by Expert Committee on Biometrics and released by DIT (Version 1.0, November, 2010) & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF) , ISO/IEC 19794-5:2005 (E) Face Image Data
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	This information is important for ensuring interoperability among capturing devices, and more information about the captured face image
Date of Publication	16/11/2011

Name of Data Element : Face Image Record Data (G01.09-00-02)	
Description of Data Element	It provides facial information (record data length, no. of feature points, gender, eye color, hair color, property mask, expression, pose angle, pose angle uncertainty & Face image Information (Face image type, image data type, width, height, image color space source type, device type etc.)
Data Element Type (Generic / Custom)	Generic
Is part of any	G01.09 (Face Image Record)
Parts if any	-Face Information block -Image information
Data Format	Byte
Max Size	(20+12)
Validation	
Values	For default and prescriptive values, refer Face Image Data Standard prepared by the Expert Committee on Biometrics. Some of them are as follows: Resolution - Minimum 300 ppi (pixel per inch) Aspect ratio - between 1 : 1.25 and 1: 1.34, and preferably 1:1.28 Width and Height of Face Image: 420 pixel x 525 pixel (width x height) i.e. 1.4" / 3.5cm (W) x 1.75"/ 4.37 cm (H)
Default value	
Owner	Government of India, Department of Information Technology
Based on	Face Image Data Standard for e-Governance Applications prepared by Expert Committee on Biometrics and released by DIT (Version 1.0, November, 2010) & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF) , ISO/IEC 19794-5:2005 (E) Face Image Data
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	This information is important for ensuring interoperability among capturing devices, and more information about the captured face image
Date of Publication	16/11/2011

Name of Data Element : Face Image Data (G01.09-00-03)	
Description of Data Element	It gives information about the captured Face Image.
Data Element Type (Generic / Custom)	Generic
Is part of any	G01.09 (Face Image)
Parts if any	
Data Format	Data capturing in lossless(Raw / PNG / LosslessJPEG2000 /TIFF/DNG) Image Data Storage / Archival in normal memory devices- PNG Image Data storage for verification in restricted memory devices – JPEG2000 with compression ratio up to 1:15
Max Size	
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	Face Image Data Standard for e-Governance Applications prepared by the Expert Committee on Biometrics and released by DIT (Version 1.0, November, 2010) & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF) , ISO/IEC 19794-5:2005 (E) Face Image Data
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	1. This Metadata is used for visual human inspection, so features of the face are not included here. 2. As per the referred GoI standard for face image data, spectacles (not heavy) & eye patch(s) on medical grounds are allowed. Turban for religious reasons only allowed. 3. During enrolment, the quality of face image should be ensured, by filling the Check list given in best practices section 6.2 of the above referenced Face Image Data Standard prepared by the Expert Committee on Biometrics.
Date of Publication	16/11/2011

Example:



(Aspect ratio 1:1.28)

Name of Data Element : Fingerprint Image Record (G01.10)	
Description of Data Element	Fingerprint image required for Identification of a Person
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	Fingerprint Image data element has the following parts: - Fingerprint Image General Record Header **G01.10-00-01** - Fingerprint Image Record Header **G01.10-00-02** - Fingerprint Image Data **G01.10-00-03**
Data Format	**For format, refer to Metadata of the parts**
Max Size	
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	Finger Image Data Standard for e-Governance prepared by Expert Committee on Biometrics released by DIT (Version 1.0, November 2010) & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF), ISO 19794-4:2005 (E) Finger Image Data ***For more details refer*** *(http://egovstandards.gov.in/standardsandFramework/biometric-standards/view)*
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Fingerprint Image General Record Header (G01.10-00-01)	
Description of Data Element	It provides information about Format identifier, Version number, Record length, Capture device ID, Image acquisition level, Number of fingers/palms, Scale unit, Scan resolution, Scan resolution(vertical) Image resolution, Image resolution (vertical), Pixel depth, Image compression algorithm, Pixel depth, Image compression algorithm, Rotation angle estimation flag, Rotation uncertainty.
Data Element Type (Generic / Custom)	Generic
Is part of any	G01.10 (Fingerprint Image Record)
Parts if any	As mentioned in the description
Data Format	Byte
Max Size	32
Validation Values Default value	For default and prescriptive values refer section 5 of Fingerprint Image Data Standard prepared by Expert Committee on Biometrics and released by DIT (Version 1.0, November, 2010)
Owner	Government of India, Department of Information Technology
Based on	Finger Image Data Standard for e-Governance Applications prepared by the Expert Committee on Biometrics & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF), ISO 19794-4:2005 (E) Fingerprint Image Data
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Fingerprint Image Record Header (G01.10-00-02)	
Description of Data Element	It provides information about length of Finger data block, **Finger position**, Count of views, View number, Finger/Palm Image quality, Impression type, Horizontal line length, Vertical line Length, Rotational angle, Finer/palm image data.
Data Element Type (Generic / Custom)	Generic
Is part of	G01.10 (Fingerprint Image Record Header)
Parts if any	As mentioned in the description
Data Format	Byte
Max Size	14
Validation	For default and prescriptive values refer section 5 of Fingerprint Image Data Standard prepared by Expert Committee on Biometrics and released by DIT (Version 1.0, November, 2010)
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	Fingerprint Image Data Standard for e-Governance Applications prepared by the Expert Committee on Biometrics & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF), ISO 19794-4:2005 (E) Finger Image Data
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Fingerprint Image Data (G01.10-00-03)	
Description of Data Element	It stores image of Fingerprint for the purpose of Storage and Extraction of Minutia for the purpose of verification
Data Element Type (Generic / Custom)	Generic
Is part of any	G01.10 (Fingerprint Image Record Header)
Parts if any	
Data Format	Image Data Storage / Archival in normal memory devices- PNG Image Data storage for verification in restricted memory devices – JPEG2000 with compression ratio up to 1:15
Max Size	<= 12 KB
Validation	For default and prescriptive values refer section 5 of Fingerprint Image Data Standard prepared by the Expert Committee on Biometrics and released by DIT (Version 1.0, November, 2010)
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	Fingerprint Image Data Standard for e-Governance Applications prepared by the Expert Committee on Biometrics, ISO 19794-4:2005(E) Finger Image Data
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Iris Image Record (G01.11)	
Description of Data Element	Iris image required for verification of a Person
Data Element Type (Generic / Custom)	Generic
Is part of	
Parts if any	Iris Image data element has the following parts: - Iris Image Record Header **G01.11-00-01** - Iris image sub type header **G01.11-00-02** - Iris Image Header **G01.11-00-03** - Iris Image Data **G01.11-00-04**
Data Format	**For the data format, refer to the Metadata of the parts**
Max Size	
Validation	
Values	
Default value	For default and prescriptive values, refer **Iris** Image data Standard prepared by Expert Committee on Biometrics
Owner	Government of India, Department of Information Technology
Based on	Iris Image Data Standard for e-Governance Applications prepared by the Expert Committee on Biometrics, ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF) and ISO/IEC 19794-6:2005 (E) Iris Image Data ***(http://egovstandards.gov.in/standardsandFramework/biometric-standards/view)***
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Iris Image Record Header (G01.11-00-01)	
Description of Data Element	It provides information about format identifier, Version no, Length of entire record, Capture device id, No. of iris biometric sub types, Record header length, Image property bit field, horizontal orientation, vertical orientation, scan type, iris occlusion filling, boundary extraction, Iris diameter, image format, image width, image height, image intensity depth, transformation to polar image, device unique identifier .
Data Element Type (Generic / Custom)	Generic
Is part of	G01.11 (Iris Image)
Parts if any	As mentioned in the description
Data Format	Byte
Max Size	45
Validation	For default and prescriptive values refer section 5 of Iris Image Data Standard prepared by the Expert Committee on Biometrics and released by DIT (Version 1.0, March 2011)
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	Iris Image Data Standard for e-Governance Applications prepared by the Expert Committee on Biometrics released by DIT (Version 1.0 March, 2011) & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF) , ISO 19785-3 (Patron Format Specification) and ISO/IEC 19794-6:2005 (E) Iris mage Data
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Iris Image sub type header (G01.11-00-02)	
Description of Data Element	It provides information about biometrics sub type identifier, number of Iris images.
Data Element Type (Generic / Custom)	Generic
Is part of any	G01.11 (Iris Image)
Parts if any	
Data Format	Byte
Max Size	3
Validation	
Values	Biometric subtype identifier=0 (No Information Given) Biometric subtype identifier=1 (Right Eye) Biometric subtype identifier=2 (Left Eye)
Default value	
Owner	Government of India, Department of Information Technology
Based on	Iris Image Data Standard for e-Governance Applications prepared by the Expert Committee on Biometrics released by DIT (Version 1.0, March, 2011) & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF) , ISO/IEC 19794-6:2005 (E) Iris Image Data
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Iris image header (G01.11-00-03)	
Description of Data Element	It give information about Image sequence number, Image quality, Rotation angle, Rotation uncertainty, Size of image data, Image data
Data Element Type (Generic / Custom)	Generic
Is part of any	G01.11 (Iris Image)
Parts if any	
Data Format	Bytes
Max Size	11
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	Iris Image Data Standard for e-Governance Applications prepared by the Expert Committee on Biometrics released by DIT (Version 1.0, March, 2011 & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF) , ISO/IEC 19794-6:2005(E) Iris Image Data
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Iris Image Data (G01.11-00-04)	
Description of Data Element	It gives information about Iris Image storage data
Data Element Type (Generic / Custom)	Generic
Is part of any	G01.11 (Iris Image Header)
Parts if any	
Data Format	Data capturing in lossless format (Raw / PNG / LosslessJPEG2000) Image Data Storage / Archival in normal memory devices- PNG
Max Size	Variable length size up to 11,862 bytes
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	Iris Image Data Standard for e-Governance Applications prepared by the Expert Committee on Biometrics released by DIT (Version 1.0, March, 2011 & ISO 19785-1 (Common Biometric Exchange Formats Framework – CBEFF) , ISO/IEC 19794-6:2005 (E) Iris Image Data
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Name of Data Element : Specimen Signature/Thumb Impression Image (G01.12)	
Description of Data Element	**Scanned Image of Person's Own hand written Signature /Thumb impression** The thumb impression means " plain inked thumb impression image"
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Data Storage / Archival in normal memory devices - PNG Data storage in restricted memory devices – JPEG2000 with compression ratio up to 1:15
Max Size	The size of image would be 256 pixels in width & 64 pixels in Height i.e. 1.4" / 3.5cm (W) x 0.44" / 1.06 cm (H) Suggested Aspect ratio is 4:1(W:H)
Validation	Right hand thumb impression in case of Female, and Left hand thumb impression in case of Male
Values	
Default value	The size of image would be 256 pixels in width & 64 pixels in height
Owner	Government of India, Department of Information Technology
Based on	Aspect ratio (Biometrics solution for authentication in An E-world written by David D. Zhang published by Springer), and as decided by the Expert Committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	It is NOT mandatory to store the image of the Specimen Signature and the data format also are suggestive.
Date of Publication	16/11/2011

Name of Data Element : Education Attained Code (G01.13-01)	
Description of Data Element	Code for Educational Qualification attained by the Person
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Integer
Max Size	3
Validation	
Values	For Education attained codes & values refer to Code Directory **(CD01.03)**
Default value	
Owner	Department of Higher Education
Based on	Present comprehensive Code Directory values taken from Office of RGI
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Example: - 1 code represents **Illiterate**

Name of Data Element : Religion Code (G01.14-01)	
Description of Data Element	**Religion Code**
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For Religion codes & values to be taken from Code Directory **(CD01.01)**
Default value	
Owner	Department of Anthropological Survey of India / Office of RGI
Based on	Present Code Directory values taken from Office of RGI
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	This need NOT be mandatory for person identification, but may be required for other purposes by e-Governance Applications
Date of Publication	16/11/2011

Example:- code **3** represents **Hinduism**

Name of Data Element : Occupation Type Code (G01.15-01)	
Description of Data Element	**Current Occupation type code for the Person**
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Integer
Max Size	2
Validation	
Values	For Occupation type codes & values refer to Code Directory (**CD01.02)**
Default value	
Owner	Ministry of Labour
Based on	Present comprehensive Code Directory values taken from Office of RGI
Version	1.1
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Example:- code **1** represents **Legislators**

Name of Data Element : Date of Birth Type (G01.16)	
Description of Data Element	This would be mainly used to flag , if the Date of Birth is actual or declared, in case, the Person is not sure about his Date of Birth - **V**erified (verified from document) - **D**eclared (not verified with document) - **A**pproximate (calculated from the values mentioned in no. of years as on current date by taking month as 07 and day as 01, and backward calculation of the year)
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Char
Max Size	1
Validation	
Values	**V**- Verified (verified from document) **D**- Declared (not verified with document) **A** - Approximate (calculated from the values mentioned in no. of years as on current date by taking month as 07 and day as 01, and backward calculation of the year)
Default value	**V** – Verified
Owner	Government of India, Department of Information Technology
Based on	As decided by the Expert committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Example –

In year 2009, while filling the form, a Person may say that he is approximately 50 year old.

Then the approximate calculated Date of Birth of the Person would be : **01/07/1959**

Name of Data Element : Live Status (G01.17)	
Description of Data Element	Status of Person as Alive or Dead
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Char
Max Size	1
Validation	
Values	**A**- Alive **D**- Dead
Default value	**A**- Alive
Owner	Government of India, Department of Information Technology
Based on	Expert committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	In case of change of status to "D" 1. The Person's record may need to be moved to Archival database 2. If the Person' relation type is "Head", the relationship codes of other related Persons also to be prompted for change (The link between them is through UID Number of the Head which is stored in the record of each related Person) Business intelligence would need to be built in the respective systems. Recommended prefixing of the title (Late) in case the status is "D" , while printing / display
Date of Publication	16/11/2011

Example: Late (Mrs.) Upanto Sikaria

Name of Data Element : Visible Identification Mark (G01.18)	
Description of Data Element	An alphanumerical text string to describe Visible physical identification marks on the body of the Person/ IRIS description**.**
Data Element Type (Generic / Custom)	Generic
Is part of any	
Parts if any	
Data Format	Varchar
Max Size	50
Validation	
Values	
Default value	
Owner	Government of India, Department of Information Technology
Based on	As decided by the Expert Committee for MDDS
Version	1.0
Status	Accepted
Date agreed	
Verification	
Comments	
Date of Publication	16/11/2011

Example: Mole on the right hand arm

5.4.3 Metadata of Generic data elements for Land Region Codification

Name of Data Element : Land Region Code(LRC) (G02.01)	
Description of Data Element	**Defines Land Region Code Unique at National level** for Country and for other Land regions like State, District, Sub-District, Rural Land region (Revenue Village), and Urban Land region (Town) allocated by ORGI. Land region within a sub district may be categorized as Urban Land Region or Rural Land Region. A land region notified through "Nagar Palika Act" would be Urban Land region which may be a town, Municipality, Municipal Corporation etc…. Rest of the land regions would be Rural Land regions, which may include villages, forests, Census towns etc…
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	Integer
Max Size	(**State –**2, **District –** 3, **Sub-District –** 5, **Village –** 6, **Town-**6)
Validations	
Values	-The data to be taken from ORGI (for State/ District/ Sub District/Village / Town) codes -For Country Short Name Code , data to be taken as per ISO-3166-1 alpha-3 Standard
Default Value	
Owner	Office of RGI
Based on	-ISO-3166-1 alpha-3 Standard (for Country code) -ORGI coding scheme for other Land regions
Version	1.1
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Name of Data Element : Name of Land Region (G02.02)	
Description of Data Element	Defines Name of Land Region like Country name, State name, District name, Sub District name, Rural Land region (Revenue Village), and Urban Land region (Town / Administrative Land region). It can be represented in English / recognized official language. This data element has two instances as follows: - **Name of Land Region in English G02.02-01** - **Name of Land Region in Recognized Official Language G02.02-02**
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	**Refer to formats of corresponding Generic data instances**
Max Size	
Validations	
Values	- Country Name data to be taken as per ISO-3166-1981 Standard - The data to be taken from ORGI(for State/ District/ Sub District/ Village / Town names)
Default Value	
Owner	Office of RGI
Based on	- ISO-3166-1981 Standard (for Country name) -ORGI naming scheme for other Land regions
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Name of Data Element : Name of Land Region in English (G02.02-01)	
Description of Data Element	This is instance of generic data element G02.02. This defines Name of Land Region like Country name , State name, District name, Sub District name, Rural Land region (Revenue Village), and Urban Land region (Town / Administrative Land region) in English
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	Varchar
Max Size	50
Validations	
Values	- Country Name data to be taken as per ISO-3166-1981 Standard - The data to be taken from ORGI(for State/ District/ Sub District/ Village / Town names)
Default Value	
Owner	Office of RGI
Based on	- ISO-3166-1981 Standard (for Country name) -ORGI naming scheme for other Land regions
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Name of Data Element : Name of Land Region in Recognized Official Language (G02.02-02)	
Description of Data Element	This is instance of generic data element G02.02. Defines Name of Land Region like Country name , State name, District name, Sub District name, Rural Land region (Revenue Village) name, and Urban Land region (Town) name in Recognized Official Language (First Official language of the State)
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	Varchar
Max Size	50 Storage in UNICODE Standard UTF-8
Validations	Should be from 22 recognized Official Languages
Values	- Country Name data to be taken as per ISO-3166-1981 Standard - The data to be taken from ORGI(for State/ District/ Sub District/ Village / Town names)
Default Value	
Owner	Office of RGI
Based on	-ISO-3166-1981 Standard (for Country name) -ORGI naming scheme for other Land regions
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

5.4.4 Metadata of Data elements for Address of Premises

Name of Data Element : Address of a Premises (G02.03)	
Description of Data Element	To describe physical location of a commercial / residential premises within a rural or urban land region It has mainly three parts as follows: - Address Type & Premises Identifier **G02.03-00** - Sub locality / Locality Identifier **G02.03-00-03** - Postal services data elements **G02.04**
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	**For format and other details refer to Metadata of the parts**
Max Size	
Validations	
Values	
Default Value	
Owner	Department of Post
Based on	As per xAL version 2 Standard of OASIS, and format by Expert Committee
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Name of Data Element : Address Type (AT) (G02.03-00-01)	
Description of Data Element	**Address Type**: It defines the category of address: Residential, Organizational
Data Element Type (Generic/Custom)	Generic
Is Part of	Address of Premises(G02.03)
Parts if any	
Data Format	Varchar
Max Size	15
Validations	
Values	
Default Value	
Owner	Department of Post
Based on	As per xAL version 2 Standard of OASIS, and format by Expert Committee
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Name of Data Element : Premises (G02.03-00-02)	
Description of Data Element	**Premises Identifier** - House Number/ Door Number. / Flat Number. / House Identifier - Building Number / Plot Number - Building Name - Stairwell / Lift Number. One or more attributes separated by "," can be used to identify a Premises / House / Building in a Sub Locality. **At least one attribute is Mandatory in the Address of Premises to identify it uniquely.**
Data Element Type (Generic/Custom)	Generic
Is Part of	Address of Premises (G02.03)
Parts if any	
Data Format	Varchar
Max Size	60
Validations	Should be unique for each house within a Premises
Values	
Default Value	
Owner	Department of Post
Based on	As per xAL version 2 Standard of OASIS, and format by Expert Committee
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	If required, e-Governance applications can store various **Premises identifiers** as separate data element(s) to meet the domain specific requirements. Such storage would also help in Geo-referencing of Address of the Premises, which is being taken up in Phase-II. However size for printing/ display should be limited to Varchar(60)
Date of Publishing	16/11/2011

Name of Data Element : Sub Locality / Locality Identifier (G02.03-00-03)	
Description of Data Element	**It has three instances like:** **- Sub Locality- 1 : G02.03-01-03** **- Sub Locality -2 : G02.03-02-03** **- Locality : G02.03-03-03** **Sub Locality-1 : Block Name/Number or any other qualifier Street Number/Name/ Mohalla / Sector Number/any other qualifier** **Sub Locality-2 : Major / Minor Land Mark** **Locality : Area Number / Area Name / Suburb / Sub District Name in case of a village**
Data Element Type (Generic/Custom)	Generic
Is Part of	Address of Premises (G02.03)
Parts if any	
Data Format	**Refer to metadata of instances**
Max Size	
Validations	
Values	
Default Value	
Owner	Department of Post
Based on	As per xAL version 2 Standard of OASIS, and format by Expert Committee
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	If required, e-Governance applications can store various **Sub-Locality / Locality** identifiers as separate data element(s) to meet the domain specific requirements. Such storage would also help in Geo-referencing of Address of the Premises, which is being taken up in Phase-II.
Date of Publishing	16/11/2011

Name of Data Element : Sub Locality- 1 (G02.03-01-03)	
Description of Data Element	**Sub Locality-1 defines** **- Block name/Number or any other qualifier** **- Street Number/Name/ Mohalla / Sector Number /any other qualifier** It is an instance of Location Identifier **G02.03-00-03**
Data Element Type (Generic/Custom)	Generic
Is Part of	Address of Premises (G02.03)
Parts if any	
Data Format	Varchar
Max Size	60
Validations	
Values	
Default Value	
Owner	Department of Post
Based on	As per xAL version 2 Standard of OASIS, and format by Expert Committee
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	If required, e-Governance applications can store various **Sub-Locality - 1 identifiers** as separate data element(s) to meet the domain specific requirements. Such storage would also help in Geo-referencing of Address of the Premises, which is being taken up in Phase-II.
Date of Publishing	16/11/2011

Name of Data Element : Sub Locality -2 (G02.03-02-03)	
Description of Data Element	**Sub Locality -2 defines Major / Minor Land Mark** It is an instance of Location Identifier **G02.03-00-03**
Data Element Type (Generic/Custom)	Generic
Is Part of	Address of Premises (G02.03)
Parts if any	
Data Format	Varchar
Max Size	60
Validations	
Values	
Default Value	
Owner	Department of Post
Based on	As per xAL version 2 Standard of OASIS, and format by Expert Committee
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	If required, e-Governance applications can store various **Sub Locality - 2 identifiers** as separate data element(s) to meet the domain specific requirements. Such storage would also help in Geo-referencing of Address of the Premises, which is being taken up in Phase-II. Recommended length of printing/ display of Sub Locality -1 + Sub Locality -2 should be Varchar(60)
Date of Publishing	16/11/2011

Name of Data Element : Locality (G02.03-03-03)	
Description of Data Element	**Locality defines** **- Area Number / Area Name / Suburb** It is an instance of Location Identifier **G02.03-00-03**
Data Element Type (Generic/Custom)	Generic
Is Part of	Address of Premises (G02.03)
Parts if any	
Data Format	Varchar
Max Size	60
Validations	
Values	
Default Value	
Owner	Department of Post
Based on	As per xAL version 2 Standard of OASIS, and format by Expert Committee
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	If required, e-Governance applications can store various **Locality identifiers** as separate data element(s) to meet the domain specific requirements. Such storage would also help in Geo-referencing of Address of the Premises, which is being taken up in Phase-II.
Date of Publishing	16/11/2011

Name of Data Element : Address Verification Status (VAS) (G02.03-00-04)	
Description of Data Element	Defines the status of the Address, whether **Verified or Self declared**, required for internal storage
Data Element Type (Generic/Custom)	Custom
Is Part of	Address of Premises (G02.03)
Parts if any	
Data Format	Char
Max Size	1
Validations	
Values	**V**- Verified **S**- Self declared
Default Value	**Self declared**
Owner	Department of Post
Based on	
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

5.4.4.1 Metadata of Generic Data Elements for Postal Service

Name of Data Element : Postal Services (G02.04)	
Description of Data Element	**Instances to codify Postal Services like:** - **G02.04-01 Postal Index Number** - **G02.04-02 Post Office Service Type** - **G02.04-03 Post Office Service Number** - **G02.04-04 Delivery Post Office Name** - **G02.04-05 Beat Number**
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	**Refer to format of Instances corresponding to this Generic Data Element**
Max Size	
Validations	Unique for town/ revenue village
Values	Data to be taken as per Department of Post
Default Value	
Owner	Department of Post
Based on	S42a-5 & S42b-5 Universal Postal Union Standard & Department of Post
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Name of Data Element: Postal Index Number (PIN) (G02.04-01)	
Description of Data Element	**Postal Index Number (PIN)** Postal address element designating the code used for sorting the mail. Internationally, it is named as ZIP code It is an instance of the generic data element Postal Service (**G02.04)**
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	Integer
Max Size	6
Validations	
Values	Data to be taken as per Department of Post
Default Value	
Owner	Department of Post
Based on	S42a-5 & S42b-5 Universal Postal Union Standard & Department of Post
Version	1.1
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Name of Data Element : Post Office Service Type (POST) (G02.04-02)	
Description of Data Element	**Post Office Service Type** - PO box service - GPO box service - Free Post service - Post Bag service - e-Post service It is an instance of Postal Service **G02.04**
Data Element Type (Generic/Custom)	Generic
Is Part of	Postal Service (G02.04)
Parts if any	
Data Format	Varchar
Max Size	20
Validations	
Values	Data to be taken as per Department of Post
Default Value	
Owner	Department of Post
Based on	S42a-5 & S42b-5 Universal Postal Union Standard & Department of Post
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Name of Data Element : Post Office Service Number (G02.04-03)	
Description of Data Element	**Post Office Service Number** - PO box number - GPO box number - Free Post number - Post Bag number - e-Post number It is an instance of Postal Service **G02.04**
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	Integer
Max Size	6
Validations	
Values	Data to be taken as per Department of Post
Default Value	
Owner	Department of Post
Based on	S42a-5 & S42b-5 Universal Postal Union Standard & Department of Post
Version	1.1
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Name of Data Element : Delivery Post Office Name (G02.04-04)	
Description of Data Element	**Delivery Post Office Name** is a secondary qualifier in case Locality doesn't have a Post Office -This element defines the address components that are specific to Postal Services. It can be used for the physical delivery of mail. It is an instance of Postal Service **G02.04**
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	Varchar
Max Size	30
Validations	
Values	Data to be taken as per Department of Post
Default Value	
Owner	Department of Post
Based on	S42a-5 & S42b-5 Universal Postal Union Standard & Department of Post
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

Name of Data Element : Beat Number (G02.04-05)	
Description of Data Element	**Beat Number** The two digit number additional to PIN to be used by Postal Dept. for sorting the mail It is an instance of Postal Service **G02.04**
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	Integer
Max Size	2
Validations	
Values	Data to be taken as per Department of Post
Default Value	
Owner	Department of Post
Based on	Department of Post
Version	1.1
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

5.4.4.2 Metadata of Generic Data Element for Geo Referencing

(To be taken up in Phase-II)

Name of Data Element : Geo-coding of a Land region / G02.05	
Description of Data Element	Geo-code of a Land region / Address of a Premises
Data Element Type (Generic/Custom)	Generic
Is Part of	Geo Referencing (G02.05)
Parts if any	-Longitude (G02.05-00-01) -Latitude (G02.05-00-02) -Altitude (G02.05-00-03)
Data Format	Degree minute second
Max Size	
Validations	
Values	
Default Value	
Owner of Data element Standard	
Based on	
Version	1.0
Status	Accepted
Date Agreed	
Verification	
Comments	
Date of Publishing	16/11/2011

6.0 Steps / Procedure for using Repository of Generic Data Elements

6.1 Referring to Generic Data Elements:

a. Choose a Generic data element from the list available in section 5.2

b. Note the Generic data element reference number to reach its metadata in section 5.4

c. Follow the attributes of the metadata while designing Input / Output forms.

d. Approach DIT for suggestions to revise the metadata, whenever required.

e. Approach DIT for inclusion of new Generic data elements, whenever required.

6.2 Referring to Code Directories

a. Centralized repository of Code directories would be with ORGI or any other centralized agency identified by Government of India, for access by domain applications.

b. Ownership of the Code directories values would be with concerned owners.

c. Notification of changes in Code directories would be issued by **Competent Authorities / Owners of the Code directories.**

d. Copy of the Notification would be marked to ORGI or the identified centralized agency for periodic updation of Code Directories. For any updation, time stamp and link to the notification would be provided.

e. History of changes made in the code directories would be maintained for the backward traceability of the changes in the values of code directories.

7.0 Annexure

Annexure I:

A. Definitions

SNO	Term	Definition
1.	Addressee	It is a party who is intended ultimate recipient of a postal item (www.upu.int/document)
2.	Administrative Area	A geographic area that serves administrative and governmental functions. They are usually defined and established by legal action. (http://www.ccrs.nrcan.gc.ca/)UN Glossary
3.	Altitude	A measure of distance above sea level.
4.	Appellation	An **Appellation** is prefixed with name title for a Person (www.dictionary.reference.com
5.	Area	Measure of the size of a square land region, usually expressed in units that are the square of linear units. (http://www.govtalk.gov.uk)
6.	Block/ Intermediate Panchayat	Elected bodies at the Block levels and include traditional institutions having statutory characters where the Panchayat Act is not applicable.
7.	Code Directory	In case of certain generic data elements, their values need to be controlled and defined in advance for using them uniformly across the domain applications. Such predefined values would be stored in prescribed structure, referred as Code Directory
8.	Country code	Postal address element designating the ISO 3166-1, code for country, territory or area of geographical interest, in which delivery point is located via which the delivery point is accessed.(www.upu.int/document)
9.	Census Town	All other places that satisfied the following criteria: a) A minimum population of 5000, b) At least 75% of the male working population should be engaged in non-agricultural pursuits; and c) A density of population of at least 400 per sq. km. (1000 per sq. mile).(www.censusindia.gov.in)
10.	Data Element	In Metadata , it is defined as an atomic unit of data that has precise meaning or semantics . http://en.wikipedia.org/wiki/dataelement or Any unit of data defined for processing is a Data element, it is defined by size, type etc. http://www.pc.mag.com/enclopediaterm
11.	Data Element :- Generic	A structure /data structure which can contain data items of an arbitrary type. Or Applicable or referring to a whole class or group.

SNO	Term	Definition
		Or Referring to several similar objects http://www.thefreedictionary.com/generic For the purpose of this standard, the generic data elements are usually defined as commonly used data elements across different e-Governance applications.
12.	Data Element : Custom	For the purpose of this Standard, custom data elements are derived from generic data elements, specific to the requirements of an application within a domain. For example, the custom data element, “Date of Birth” is derived from generic data element, “Date”
13.	Distance	The extent of space between two objects or places, an intervening space. (http://www.govtalk.gov.uk)
14.	Door	Postal address element indicating the apartment, room or office in, at or adjacent to which a delivery point which is situated within a building for location. (www.upu.int/document)
15.	Education	The process of training and developing the knowledge, skill, mind, character, etc., esp. by formal schooling; teaching; training www.yourdictionary.com/ed-ucation
16.	Face image	Electronic image based representation of portrait of a person.
17.	Finger print	The unique patterns created by skin ridges found on the palm sides of fingers and thumbs. ppsblogs.net/crimescene/file-s/2007/06/forensics-terms.doc
18.	Floor	Postal address element indicating the floor or level on which a delivery point is located in a multi-storey construction.(www.upu.int/document)
19.	Forward / Delivery address	Postal address, specified by addressee or mailee of a postal item, to which the postal operator is requested to deliver the postal item(www.upu.int/document)
20.	Free Post	The service by Postal Department, where mails can be mailed free of cost, and the payment is done by the Person/ Organization who delivers the mail.
21.	Full Name	Person’s full name used as an expanded name
22.	Geo-code	- The process of assigning geographic codes to features in a digital database; - A GIS function that determines a point location based on a street address. www.gisdevelopment.net)/ (http://www.ccrs.nrcan.gc.ca/)
23.	Geo-referencing	Geo-referencing is the process of converting spatial (Globe’s) coordinates into Geographic (Real World’s) coordinates system. So that an object of 3-Dimensional surface could be represented on to the plane paper map exactly or with minimal distortion.

SNO	Term	Definition
		(www.gisdevelopment.net)
24.	Gram Panchayat	Gram Panchayat is the primary unit of Panchayati Raj, a Gram Panchayat can be set up in villages with a population of more than five hundred. There is a common Gram Panchayat for two or more villages if the population of these villages is less than five hundred. It is called Group-Gram Panchayat. (http://www.hooghly.gov.in)
25.	Inhabitant	A Person or animal that lives in a particular place or area
26.	Instance	Term used for element type/ sub-type, which represents an occurrence of the Root element (www.upu.int/document).
27.	Land	A uniquely and physically defined parcel of land, same as a Cadastre. (www.censusindia.gov.in)
28.	Language	A systematic means of communicating by the use of sounds or conventional symbols (www.wordnet.princeton.edu/perl/webwn)
29.	Latitude	Latitudes are the horizontal circles on the globe showing the measurement of object's location horizontally on the earth's surface in terms of radians measured from the centre of the earth. The biggest parallel of latitude on the earth's surface is equator and the parallels of latitude dimension decreases gradually from the equator towards the North and South Pole. It is measured in terms of Degrees, Minutes and Seconds. (www.gisdevelopment.net)
30.	Locality	Postal address constructs identifying the geographical area in or adjacent to which delivery point is located. etc.(www.upu.int/document)
31.	Longitude	Longitudes are the vertical circles on the globe showing the measurement of object's location vertically on the earth's surface in terms of radians measured from the centre of the earth. The dimension of all meridians of longitudes is same and they converge with each other on the North and South Pole making a point of interaction on the earth's surface on the North and South Pole. It is also measured in terms of Degrees, Minutes and Seconds. ***Note: The dimension of equator and meridians of longitude is same***.(www.gisdevelopment.net)
32.	Mailee	It is a party designated in a postal address as having responsibility for ensuring that postal items, delivered or handed over by the postal operator at the delivery address, reaches their addressee. (www.upu.int/document)
33.	Mandal	These are Revenue units below the district and are known as sub-district. The sub-district may represent the Tahsil, Taluk,

SNO	Term	Definition
		Revenue Circle or Mandal as is relevant to each State (www.censusindia.gov.in)
34.	Mandatory	Null values not allowed (www.govtalk.gov.uk)
35.	Measurement	The act or process of ascertaining dimensions, quantity, or capacity.(www.govtalk.gov.uk)
36.	Metadata	Data about data. A collection of information that describes the content, quality, condition, format, lineage, and any other relevant characteristic of a data set. (http://www.ccrs.nrcan.gc.ca)
37.	Municipality	A Municipality is an administrative entity composed of a clearly defined territory and its population, and commonly refers to a city, town, or village, or a small grouping of them. A municipality is typically governed by a mayor and a city council or municipal council.(http://www.famweb.nwcg.gov)
38.	Land Region Code	It defines Land region code of administrative units unique at **National level**
39.	Occupation	The principal activity in your life which is done to earn money www.wordreference.com/definition/occupation
40.	Optional	Null values allowed (www.govtalk.gov.uk)
41.	Owner	Name of the entity (department organization etc) that owns the data element / Code Directory & is responsible for the updation of the elements. In Meta Data it is defined as - Owner of Data element Standard - Owner of Code directory having Update rights. - Owner of specific domain application data element
42.	Part	Term used for element type/ sub-type, which represents a physical sub division of the Root element. (www.upu.int/document)
43.	Panchayat	Panchayat means an institution (by whatever name called) of self-government constituted under article 243B, for the rural areas.(www.orissagov.nic.in)
44.	Postal address	Set of information, for a postal item, allowing unambiguous determination of an actual or potential delivery point, usually combined with the specification of an addressee/ or mailee. (www.upu.int/document)
45.	Post Bag	The method by which the mail is delivered with in a bag which is locked and has the keys, one with the Post master and other with the Person / Organization taking the facility
46.	Relationship	Connection between Persons by blood or marriage. An emotional or other connection between people like

SNO	Term	Definition
		teacher, student etc… www.dictionary.com
47.	Revenue Village	-The Revenue Village has a definite surveyed boundary and each village has a separate administrative unit with separate village accounts. It may have one or more hamlets. The entire revenue village is one unit. - A Village whose survey numbers (plots) details are mentioned in a register called Jamabandi having fixed geographical boundary.(www.censusindia.gov.in)
48.	Rural Land Region	Any land region in a sub district, not covered as urban land region is rural land region
49.	Signature	A Signature is a handwritten depiction of someone's name / thumb impression , as a proof of identity or intent (www.en.wikipedia.org)
50.	Stairwell	Postal address element indicating access to floor or door within a building/construction. (www.upu.int/document)
51.	Statutory town	Local bodies declared as Towns by State government under Nagar Palika Act or any other Statute like the Cantonments Act, Cantonment Board Act etc are called Statutory Town. Or All places with a Municipal Corporation, Municipality, Cantonment Board or Notified Town Area Committee, etc. (www.censusindia.gov.in)
52.	Street number	Postal address element designating the area, or the object on an area, adjacent to **thoroughfare**, in which the delivery point or delivery point access is located. (www.upu.int/document)
53.	Sub Locality	It defines the sub element of administrative area i.e. sub element with in a locality (www.upu.int/document)
54.	Suburb	An area or town located at the edge of an Urban city. A suburb is contained either just within or just outside of the city boundaries. It is usually primarily a residential area, and is often dependent upon the nearby city for employment opportunities and other benefits. (www.businessdictionary.com)
55.	Taluk	These are Revenue units below the district and are known as sub-district. The sub-district may represent the Tahsil, Taluk, Revenue Circle or Mandal as is relevant to each State(www.censusindia.gov.in)
56.	Tahsil (Revenue circle)	These are Revenue units below the district and are known as sub-district. The sub-district may represent the Tahsil, Taluk, Revenue Circle or Mandal as is relevant to each State(www.censusindia.gov.in)

SNO	Term	Definition
57.	Thoroughfare	Postal address element which identifies the road or part of a road or other access route along which a delivery point can be accessed, either directly or via a secondary or tertiary road or access route. For addressing purposes, a thoroughfare need not be on land, e.g. a canal or river might serve as a thoroughfare in the address of a houseboat or of a construction on the bank.(www.upu.int/document)
58.	Town / Administrative Town	The unit of classification in Census is 'town' for urban areas and 'village' for rural areas. In the Census of India 2001, the definition of urban area adopted is as follows: (a) All statutory places with a municipality, corporation, cantonment board or notified town area committee, etc. (b) A place satisfying the following three criteria simultaneously: i) a minimum population of 5,000; ii) at least 75 per cent of male working population engaged in non-agricultural pursuits; and iii) a density of population of at least 400 per sq. km. (1,000 per sq. mile). (www.censusindia.gov.in)
59.	Universal Transverse Mercator	The **Universal Transverse Mercator** (**UTM**) geographic coordinate system is a grid-based method of specifying locations on the surface of the Earth that is a practical application of a 2-dimensional Cartesian coordinate system. It is a horizontal position representation, i.e. it is used to identify locations on the earth independently of vertical position, but differs from the traditional method of latitude and longitude in several respects (http://wikipedia.org)
60.	Urban Land Region	A land region notified as a **Town / Municipal Corporation / Municipality/ Cantonment board notified etc.** through Nagar Palika Act is categorized as urban land region
61.	Urban agglomeration	An Urban Agglomeration is a continuous urban spread constituting a town and its adjoining urban outgrowths (OGs) or two or more physically contiguous towns together and any adjoining urban outgrowths of such towns. Examples of OGs are railway colonies, university campuses, port areas, etc., that may come up near a city or statutory town outside its statutory limits but within the revenue limits of a village or villages contiguous to the town or city. Each such individual area by itself may not satisfy the minimum population limit to qualify it to be treated as an independent urban unit but may deserve to be clubbed with the town as a continuous urban spread. For the purpose of delineation of Urban Agglomerations during Census of India 2001, following criteria are taken as pre-requisites: (a) The core town or at least one of the constituent towns of an urban agglomeration should necessarily be a statutory town; and (b) The total population of all the constituents (i.e. towns and outgrowths) of an Urban

SNO	Term	Definition
		Agglomeration should not be less than 20,000 (as per the 1991 Census). With these two basic criteria having been met, the following are the possible different situations in which Urban Agglomerations would be constituted: (i) a city or town with one or more contiguous outgrowths; (ii) two or more adjoining towns with their outgrowths; and (iii) a city and one or more adjoining towns with their outgrowths all of which form a continuous spread (www.censusindia.gov.in)
62.	Village	A group of houses and associated buildings, larger than a hamlet and smaller than a town, situated in a rural land region http://dictionary.reference.com/browse/village
63.	Wards	The Administrative unit of (Urban locality) Town.
64.	Zila Panchayat/ Parishad	Zila Parishad. This body is an advisory body at the District level to advise the Government in all developmental matters relating to the District. Under three-tier system of democratic decentralization, Zila Parishad is the apex body at the district level followed by Panchayat Samitis at Block level and G.Ps as second-tier & third-tier.(http://www.trendswestbengal.org/gp_gis.htm)

B. Acronyms

ANSI	American National Standards Institute
BSNL	Bharat Sanchar Nigam Limited
CBEFF	Common Biometric Exchange Format & Framework
CD	Code Directories
CIQ	Customer Information Quality Technical committee
DIT	Department of Information Technology
E-GIF	e-Government Interoperability Framework
FIPS PUB	Federal Information Processing Standard Publication
GOV	Government
ICAO	International Civil Aviation Organization
ICSSR	Indian Council Social Science Research
IEC	International Electro technical Commission
IND	INDIA
ISO	International Organization for standardization
JPEG	Joint Photographic Experts Group
LRC	Land Region Codification
MDDS	Data and Metadata Standards
MNIC	Multipurpose National Identity Card
NAC	Notified Area committee / Notification Area Council
NIST	National Institute of Standards and Technology
NLRC	National Land Region Code
OASIS	Organization for the Advancement of Structured Information *Standards*
ORGI	Office of Registrar General of INDIA
PID	Person Identification
PNG	Portable Network Graphics
PPI	Pixels Per Inch
RGI	Registrar General of INDIA

STD	Subscriber Trunk Dialling
UID	Unique Identification Number for Person
UIDAI	UID Authority of INDIA
UK	United Kingdom
UPU	Universal Postal Union
US	United States
UTM	Universal Transverse Mercator
WSQ	Wavelet Scalar Quantization
xNL	extensible Name Language
XML	Extensible Markup Language

Annexure II: Illustration of Data elements to describe Person Identification

Note: The following is a sample of using Standardized data elements in Domain specific applications, where characteristic Mandatory /Optional is as per Domain specific requirements of the application and this may vary from application to application.

Date Element	Data format	Data element nature (Mandatory- NULL Values not allowed Optional – NULL values allowed)	Ref. No. of Generic Data element for its Metadata
Person details			
Unique Identification Number for a Person (UID)	Integer (12) (Here "Integer" is synonymous with "Number" as used by UIDAI)	Mandatory	G01.01
Appellation- 1 of a Person prefixed with name to describe **Gender and/or Marital Status**	Integer(2)	Optional	G01.05-01
Appellation-2 of a Person prefixed with name to describe attained Professional educational qualification	Integer(2)	Optional	G01.05-01
Name of the Person			
Person short name in English	Varchar (30)	Mandatory	G01.02-01
Person full name in English	Varchar(99)	Mandatory	G01.02-02
Person short name in Recognized Official language	Varchar (30) Unicode –UTF 8 format	Mandatory	G01.02-03
Person full name in Recognized Official language	Varchar(99) Unicode –UTF 8 format	Mandatory	G01.02-04
Date of Birth as per Indian Date Conventions	Date (dd/mm/yyyy)	Mandatory	G00.01
Date of Birth type (Verified / Declared /Approximate)	Char (1)	Mandatory	G01.16

Date Element	Data format	Data element nature (Mandatory- NULL Values not allowed Optional – NULL values allowed)	Ref. No. of Generic Data element for its Metadata
Gender Identification code	Char(1)	Mandatory	G01.03
Marital Status	Integer(1)	Mandatory	G01.04
Education Attained code	Integer(2)	Mandatory	G01.13-01
Person Religion code	Integer(2)	Optional	G01.14-01
Occupation Type code	Integer(2)	Optional	G01.15-01
Suffix code	Integer(2)	Optional	G01.06-01
Place of Birth			
Name of Rural Land region (Revenue Village) / Urban Land region (Town)	Varchar(50)	Mandatory	G02.02-01
Name of Sub District derived from Village / Town Code Directory	Varchar(50)	Optional	G02.02-01
Name of District derived from Village / Town Code Directory	Varchar(50)	Optional	G02.02-01
Name of State derived from Village / Town Code Directory	Varchar(50)	Optional	G02.02-01
Name of Country	Varchar(50)	Optional (if Premises address with in INDIA) Mandatory (if Premises address outside INDIA)	G02.02-01
Present Residential Address (Refer Annexure – III for data elements of Address of a Premises)			

Date Element	Data format	Data element nature (Mandatory- NULL Values not allowed Optional – NULL values allowed)	Ref. No. of Generic Data element for its Metadata
Permanent Residential Address (Refer Annexure – III for Data elements of Address of a Premises)			
Face Image Record			
Face Image Record Header	Bytes (14)	Mandatory	G01.09-00-01
Face Image Record Data	Bytes(32)	Mandatory	G01.09-00-02
Face Image Data	Normal memory Device – PNG Restricted Memory Device - JPEG 2000 with compression ratio up to 1:15	Mandatory	G01.09-00-03
Face Image capture date	Date (dd/mm/yyyy)	Mandatory	G00.01
Fingerprint Image Record			
Fingerprint Image General Record Header	Bytes (32)	Mandatory	G01.10-00-01
Fingerprint Image Record Header	Bytes (14)	Mandatory	G01.10-00-02
Fingerprint Image Data	Normal memory Device – PNG Restricted Memory Device - JPEG2000 with compression ratio up to 1:15	Mandatory	G01.10-00-03
Iris Image Record			
Iris record header	Bytes(45)	Mandatory	G01.11-00-01
Iris image Sub type Header	Bytes (3)	Mandatory	G01.11-00-02

Date Element	Data format	Data element nature (Mandatory- NULL Values not allowed Optional – NULL values allowed)	Ref. No. of Generic Data element for its Metadata
Iris image header	Bytes (11)		G01.11-00-03
Iris Image Data	Normal memory Device – PNG	Mandatory	G01.11-00-04
Other Details			
Visual identification marks	Varchar(50)	Optional	G01.18
Specimen Signature / Thumb impression image	Normal memory Device – PNG Restricted Memory Device - JPEG2000 with compression ratio up to 1:15	Optional	G01.12
Date of data collection	Date (dd/mm/yyyy)	Mandatory	G00.01
Telephone No1 (Landline number including prefixes)	Varchar(16)	Optional	G00.06
Telephone No 2 (mobile number including prefixes)	Varchar(16)	Optional	G00.06
Code of Recognized Official Language, in which data is captured including code for capturing in English (required for transliteration of captured data in English and vice versa)	Integer(2)	Mandatory	G00.05-01
Blood relationship code / Marriage relationship code with head of the family	Integer(2)	Optional	G01.08-01
Live Status: It represents, if	Char(1)	Mandatory	G01.17

Date Element	Data format	Data element nature (Mandatory- NULL Values not allowed Optional – NULL values allowed)	Ref. No. of Generic Data element for its Metadata
Person is Alive or Dead Default value is Alive			
Relationship Type: It describes a Person is Head / not head of the family	Char(1)	Mandatory	G01.07-01
Code of Relationship with head of the house hold	Integer(2)	Mandatory	G01.08-01
UID of head of the house hold, to whom Person is related	Integer (12)	Optional	G01.01
Father's Details			
Father's UID Number	Integer(12) or Null (Here "Integer" is synonymous with "Number" as used by UIDAI)	Details of any of Father/ Mother/ Spouse is Mandatory	G01.01
Father's short name in English	Varchar (30)		G01.02-01
Father's full name in English	Varchar(99)		G01.02-02
Father's short name in Recognized Official Language	Varchar (30) Unicode –UTF 8 format		G01.02-03
Father's full name Recognized Official Language	Varchar(99) Unicode –UTF 8 format		G01.02-04
Mother's Details			
Mother's UID No.	Integer(12) (Here "Integer" is synonymous with "Number" as used by UIDAI)		G01.01

Date Element	Data format	Data element nature (Mandatory- NULL Values not allowed Optional – NULL values allowed)	Ref. No. of Generic Data element for its Metadata
Mother's short name in English.	Varchar (30)		G01.02-01
Mother's full name in English	Varchar(99)		G01.02-02
Mother's short name in Recognized Official Language	Varchar (30) Unicode –UTF 8 format		G01.02-03
Mother's full name in Recognized Official Language	Varchar (99) Unicode –UTF 8 format		G01.02-04
Spouse's Information			
Spouse's UID Number.	Integer(12) (Here "Integer" is synonymous with "Number" as used by UIDAI)		G01.01
Spouse's short name in English	Varchar (30)		G01.02-01
Spouse's full name in English	Varchar(99)		G01.02-02
Spouse's short name in Recognized Official Language	Varchar (30) Unicode –UTF 8 format		G01.02-03
Spouse's full name in Recognized Official Language	Varchar (99) Unicode –UTF 8 format		G01.02-04

Annexure III: Illustration of Data elements to describe Address of a Premise

Note: The following is a sample of using Standardized data elements in Domain specific applications, where characteristic Mandatory / Optional is as per Domain specific requirement of the application and this may vary from application to application

Address line for printing at Interface level	Name of Data element	Data format	Data element nature (Mandatory- NULL Values not allowed) (Optional – NULL values allowed)	Ref no. of Generic data element for its Metadata
Address line1 for printing House Identifiers Data elements separated by "," while printing the address line , in case of more than one non-blank qualifiers Incase of Rural Land region, if none is filled, the "Not Available" to be printed	-House Number /Door Number / Flat Number / House identifier -Building Number /Plot Number -Building Name / Building Identifier -Stair well/Lift Number /any other qualifier	Varchar(60)	At least one House identifier Mandatory	G02.03-00-02
Address line2 for printing Sub Locality Data elements separated by "," while printing the address line in case of more than one non-blank qualifiers	**Sub Locality - 1** -Block Name/ Number or any other qualifier -Street Number /Name/ Mohalla/ Sector Number/any other qualifier	Varchar(60)	Optional	G02.03-01-03
	Sub locality – 2 Major /Minor Land Mark	Varchar(60)	Optional	G02.03-02-03
Address line3 for printing Locality	**Locality** Area Number / Area Name / Suburb / Any other qualifier	Varchar (60)	Optional	G02.03-03-03

Address line for printing at Interface level	**Name of Data element**	**Data format**	**Data element nature** (Mandatory- NULL Values not allowed) (Optional – NULL values allowed)	**Ref no. of Generic data element for its Metadata**
Data elements separated by "," while printing the address line , in case of more than one non-blank qualifiers				
Address line4 for printing Land region Town / Village Both separated by " – " while printing	-Rural Land region (**Village name)** & Sub District / Urban Land region **(Town name)** **Pin code**	Varchar(50) Integer(6)	Mandatory Mandatory	G02.02-01 G02.04-01
Address line5 for printing District & State separated by " , "	District name	Varchar(50) To be derived from Code directory of the Land region (Village / Town)	Mandatory	G02.02-01
	State name	Varchar(50) To be derived from Code directory of the Land region (Village / Town)	Mandatory	G02.02-01
Address line6 for printing country	Country name	Varchar(50)	-Optional (if country name is India) -Mandatory (other than India	G02.02-01

Address line for printing at Interface level	Name of Data element	Data format	Data element nature (Mandatory- NULL Values not allowed) (Optional – NULL values allowed)	Ref no. of Generic data element for its Metadata
To be stored internally and not for printing / display at interface level	**Land Region Code** National Land region code for Rural Land region (Village)/ Urban Land region (Town). To be picked automatically from Village / town code directory to derive information about Sub District, District, State for printing in the address	Integer (6)	Mandatory	G02.01
To be stored internally, and not for printing / display at Interface level	**Address verification status**: 1-Verified 2-Self declared , not verified	Char(1)	Mandatory	G02.03-00-04
To be stored internally, and not for printing / display at Interface level	**Police Station Code** of the areas, in which the Premises is located to be automatically picked from Police Station Code directory	Integer(6)	Mandatory	G02.01

Note: The choice of Mandatory / Optional fields such as house identifier, sub locality / locality should be in such a way that the premises address becomes uniquely identifiable within the particular Town/Village.

Example:

Print line No.	Data format	Data element type	Printable Address of a premises in Urban area	Printable Address for Rural area
Address line 1 (House No, Bldg no/ name, stair well/lift no, delimited by ",")	Varchar(60)	Mandatory (any one of the House identifiers)	A-126, 5th Floor	Balu Illam's house
Address Line 2 (Sub Locality-1 , Sub Locality -2 delimited by " , ")	Varchar(60)	Optional	S- Block, Sector12	Attukkaaran Thottam, Karattoor
Address Line 3 (Locality)	Varchar(60)	Optional	R.K. Puram	Kuppandapalayam (P.O)
Address Line 4 Urban Land region (Town) / Rural Land region (Village) details **-** Name of Village with sub District /Town/City - Pin code	Varchar(56)	Mandatory separated by '-' for printing	New Delhi -110066	Athani - 638012
Address Line 5 District / State Name	Varchar(50)	Mandatory Separated by "," for printing	Delhi	Kovai District, Tamilnadu
Address Line 6 Name of the Country	Varchar(50)	Mandatory(if Country other than India)	India	India

The address in the printable form will look as given below:

Printable Address of a Residence in Urban area	Printable Address of a Residence for Rural area
A-126, 5th Floor , S- Block, Sector12 R.K Puram New Delhi -110066 Delhi	Balu Illam's House Attukkaaran, Thottam, Karattoor Kuppandapalayam(P.O), Athani – 638012 Kovai District, Tamilnadu

Annexure IV: Code directories along with their Ownership and sample values

A. List of Code Directories

Ref. No. of Code Directory	Name of Code Directory	Proposed Ownership (Owner of Code Directory having update rights)
CD00.01	Measurement units	Department of Land Records
CD00.02	State Recognized Language	Department of Official Language , Ministry of Home Affairs
CD01.01	Religion	Anthropological Survey of India / Office of RGI
CD01.02	Occupation	Ministry of Labour
CD01.03	Education	Department of Higher Education
CD01.04	Appellation	Ministry of Home Affairs
CD01.05	Suffix	Ministry of Home Affairs
CD01.06	Relationship	Anthropological Survey of India
CD02.01	Country	ISO 3166-1 alpha-3 Standard
CD02.02	State	Office of RGI
CD02.03	District	Office of RGI
CD02.04	Sub-District	Office of RGI
CD02.05	Rural Land Region (Revenue Village)	Office of RGI
CD02.06	Urban Land region (Town)	Office of RGI
CD02.07	Police Station	NCRB (National Crime Record Bureau)
CD02.08	Geo-code	To be addressed in Phase- II

B. Sample Values in Code Directories

CD00.01- Measurement conversion Table

Owner: Department of Land Records

Conversion table of Common generic data element Measurement

1) Conversion table for Distance

Meter	Kilometer
1	.001
1000	1

2) Conversion table for Area

Square meter	Square Kilometer	Hectare
1000 000	1	100
1	.01	.0001
10000	.01	1

3) Conversion table for Volume

Cubic Meter	Cubic Centimeter
1	1000000
.01	1

Recommendation: In existing Land Record databases, attribute “area” is used to capture information about the area of a land parcel. Different traditional units like Karla, Marla, Cents, decimal is used for recording the area of a land parcel. At present, it is represented as a Numeric data type up to three decimal place. ***It is now recommended to have the area only in Metric Units as depicted in Table 1.2, given below.*** The codes for various area units in practice in land records are shown in Table 1.2. Conversion factors are locally available from different unit to metric system and it is depicted in Table 1.3

Table 1.1-Area units in metric system

Code	Description
001	Hectares

Table 1.2-Units in practice for Land Record Areas

Code of "Area" unit	Name of "Area" unit
001	Hectares
002	Ares
003	Centi-are
004	Sq. meters
005	Sq yards
006	Sq. feet
007	Acres
008	Cents
009	Guntas
010	Bigha
011	Biswa
012	Biswansi
013	Kanal
014	Marla
015	Karam
016	Sarsaai
017	Kila
018	Bigha(Assam)
019	Katha (Assam)
020	Lessa
021	Shatak
022	Sq cm

Table 1.3- Conversion Factors

1 centi-are = 1 Sq metre
1 centi-are = 10.76 Sq.feet
100 Centi-are = 1 Are
100 Are = 1 hectare
100 Sq metre = 1 Are
1 hectare = 100m x 100m = 10000 Sq metre
1 hectare = 404.68458 Acre (Tripura)
40 Are = 1 Acre
1 Lessa = 144 Sq feet
1 Katha = 5 Lessa or 720 Sq feet
1 Bigha(Assam) = 4 Katha or 20 Lessa or 2880 Sq feet
1 Sq metre = 10000 Sq cm (Gujarat)
2.47105 Acres = 1 Hectare (Kerala)
1 Are = 2.47105 cents (Kerala)
1 Acre = 100 cents (Kerala,Tamil nadu)
1 Cent = 40 Sq metres or 435 Sq feet
1 Acre = 40 Guntas(Andhra Pradesh and Karnataka)
1 Gunta = 100 Sq metres (around 1100 sq feet)
1 Acre = 121 Sq yards
1 Kuncham = 10 cents(Andhra Pradesh)
1 Sq link = 0.0404687 Sq metre (Kerala)
Shahjahani Jarib(165 feet) (Rajasthan)
1 Bigha = 1 Jarib x 1 Jarib = 165' x 165' = 27225 Square Feet
1 Bigha(Shahjahani Jarib) = 0.253 Hectare

Gantari Jarib(132 feet) (Rajasthan)
1 Bigha = 1 Jarib x 1 Jarib = 132' x 132' = 17424 Square Feet
1 Bigha(Gantari Jarib) = 0.16 Hectare
1 Bigha = 20 Biswansi (Rajasthan)
1 Acre = 4046.94 Sq metre (Jharkhand)
1 Dismil = 40.46 Sq metre (Jharkhand)
1 Katha(Jharkhand) = 66.89 Sq metre (Jharkhand)
1 Dur = 10 Sq metre (Jharkhand)

Before Bandobust (Settlement)

1 Karam = 57.157" (Haryana)
1 Biswansi = 1 Karam x 1 Karam (Haryana)
20 Biswansi = 1 Biswa (Haryana)
1 Bigha = 20 Biswa (Haryana)
4 Bigha-16 Biswa = 1 Acre (Haryana)
2.47 acre = 1 hectare(CG)

Government Settlement

1 Karam = 57.157" (Haryana)
20 Biswansi = 1 Biswa (Haryana)
1 Bigha = 20 Biswa (Haryana)
4 Bigha = 1 Kila (Haryana)
1 Kila = 40 Karam x 40 Karam (Haryana)

After Bandobust (Settlement)
1 Karam = 66" (Haryana)
1 Sarsaai = 1 Karam x 1 Karam (Haryana)
9 Sarsaai = 1 Marla (Haryana)
20 Marla = 1 Kanal (Haryana)
8 Kanal = 1 Acre (Ghuman) (Haryana)
1 Acre = 36 Karam x 40 Karam (North to South, East to West) (Haryana)
2.5 Acre = 1 Hectare (CG)

Source: http://www.dolr.nic.in - AREA UNIT/EXTENT with digital coding scheme

CD00.02- Recognized Official Languages

Owner- Office of Registrar General of India (ORGI)

Recognized Official Language Code	Values	As per ISO 639-3
1	Assamese	asm
2	Bengali	ben
3	Bodo	brx
4	Dogri	doi
5	Gujarati	guj
6	Hindi	hin
7	Kannada	kan
8	Kashmiri	kas
9	Konkani	kok
10	Maithili	mai
11	Malayalam	mal
12	Manipuri	mni
13	Marathi	mar
14	Nepali	nep
15	Oriya	ori
16	Punjabi	pan
17	Sanskrit	san
18	Santali	sat
19	Sindhi	snd
20	Tamil	tam
21	Telugu	tel
22	Urdu	urd
99	Other language (English)	eng

CD01.01- Religion Codes and Values

Owner: - Office of Registrar General of India (ORGI)

Religion Code	Values
1	Buddhism
2	Christianity
3	Hinduism
4	Islam
5	Jainism
6	Sikhism
99	Other

CD01.02- Occupation type Codes and values

Owner:-Ministry of Labour

Occupation Code	Values
1	Legislators and Senior officials
2	Corporate Manager
3	General Manager
4	Physical, mathematical and engineering science professional
5	Life sciences and health professional
6	Teaching professional
7	Other professional
8	Physical and Engineering Science associate professional
9	Life sciences and health associate professional
10	Teaching associate professional

Occupation Code	Values
11	Other associate professional
12	Office Clerks
13	Customer services clerks
14	Personal protective services workers
15	Models, sales Persons and demonstrators
16	Market oriented skilled agricultural and fishery workers
17	Subsistence agricultural and fishery workers
18	Extraction and building trades workers
19	Metal, machinery and related trades workers
20	Precision, handicraft, printing and related trade workers
21	Other craft and related trades workers
22	Stationary plant and related operators
23	Machine operators and assemblers
24	Drivers and mobile plant operator
25	Sales and services elementary occupations
26	Agricultural, fishery and related labour
27	Laborers in mining, construction, manufacturing and transport
28	New workers seeking employment
29	Workers reporting occupation unidentifiable or inadequately described
30	Workers not reporting any occupations

CD01.03- Education Attained Codes and Values

Owner: Department of Higher Education

Education code	Education Group Values	Education Sub Group Values
1	Illiterate	
2	Literate (Without Education Level)	
3	Below Primary	
4	Primary	
5	Middle/Lower Secondary	
6	Matriculation/Junior School Certificate/Secondary	
7	Higher Secondary/ Intermediate/ Pre-University/Senior Secondary	
8	Non- Technical Diploma/Certificate not equal to Degree	
Non- Technical Diploma/Certificate not equal to Degree		
21		Diploma/Certificate in ENGINEERING
22		Diploma/Certificate in MEDICAL
23		Diploma/Certificate in Technology
24		Diploma/Certificate in Agriculture, Dairying, Forestry
25		Diploma/Certificate in Veterinary
26		Diploma/Certificate in Teaching of General Science
27		Diploma/Certificate awarded by Industries deptt.
28		Trade certificate in General Science
29		Teaching Certificate
30		Diploma in City and Guides of London Institute
31		Certificate in Journalism
32		P.L.
33		Technical Diploma

Education code	Education Group Values	Education Sub Group Values
34		Photography / Photo Mechanic conversion course
35		Diploma in Occupational Therapy /Physiotherapy
36	Graduate Degree other than Technical Degree	
37	Post Graduate Degree other than Technical Degree	
Technical Degree or Diploma Equal to Degree or Post-Graduate		
51		Engineering and Technology
52		Medicine
53		Agriculture and Dairying
54		Veterinary
55		Teaching
98		Others
99	Literate, but educational level Unclassified/not stated	Unclassified, Blank, NA, Not Stated

Note: Gap given for provision to add new codes in a category for future purpose.

CD01.04- Appellation Codes and Values

Owner:-Ministry of Home Affairs

Appellation Code	Values in English
1	Mr.
2	Mrs.
3	Ms.
4	Shri
11	Dr.
12	CA
13	Er.
14	Prof.

Note: Gap given for provision to add new codes in a category for future purpose.

CD01.05- Suffix Codes and values

Owner -Ministry of Home Affairs

Suffix Code	Values
1	IAS
2	IPS
3	IFS
4	MBBS
5	BDS
6	MD
7	MS
8	MDS

CD01.06- Relationship Codes and Values

Owner: Anthropological Survey of India

Relationship Code	Values
1	Self
2	Spouse
3	Father
4	Mother
5	Son
6	Daughter
7	Brother
8	Sister
9	Father- In- Law
10	Mother- In- Law
11	Brother-In-Law
12	Sister-In-Law
13	Nephew
14	Niece
15	Grandson
16	Granddaughter
17	Grandfather
18	Grandmother
19	Other (Including any other blood relation and non-blood relations like visitor, guardians)

CD02.02- State Code Directory

Owner:-Office of Registrar General of India

State Land Region Code(SLRC)	State Name	Sub-District nomenclature in the State	Recognized Official Language	
			Code	Name
01	Jammu and Kashmir	Tahsil	22	Urdu
02	Himachal Pradesh	Tahsil	6	Hindi
03	Punjab	Tahsil	16	Punjabi
04	Chandigarh	Tahsil	6	Hindi
05	Uttrakhand	Tahsil	6	Hindi
06	Haryana	Tahsil	6	Hindi
07	Delhi	Tahsil	6	Hindi
08	Rajasthan	Tahsil	6	Hindi
9	Uttar Pradesh	Tahsil	6	Hindi
10	Bihar	C.D. Block	6	Hindi
11	Sikkim	Sub-Division	14	Nepali
12	Arunachal Pradesh	Circle	6	Hindi
13	Nagaland	Circle	99	English
14	Manipur	Sub-Division	12	Manipuri
15	Mizoram	R. D. Block	99	English
16	Tripura	Development Block	2	Bengali
17	Meghalaya	C.D. Block	99	English
18	Assam	Circle	1	Assamese
19	West Bengal	C.D. Block	2	Bengali
20	Jharkhand	C.D. Block	6	Hindi
21	Orissa	Police Station	15	Oriya
22	Chhatisgarh	Tahsil	6	Hindi
23	Madhya Pradesh	Tahsil	6	Hindi
24	Gujarat	Taluka	5	Gujarati
25	Daman & Diu	Taluka	5	Gujarati
26	Dadra & Nagar Haveli	Taluka	5	Gujarati
27	Maharashtra	Tahsil	13	Marathi

State Land Region Code(SLRC)	State Name	Sub-District nomenclature in the State	Recognized Official Language	
			Code	Name
28	Andhra Pradesh	Mandal	21	Telugu
29	Karnataka	Taluka	7	Kannada
30	Goa	Taluka	9	Konkani
31	Lakshadweep	Sub-Division	11	Malayalam
32	Kerala	Taluka	11	Malayalam
33	Tamil Nadu	Taluka	20	Tamil
34	Puducherry	Commune Panchayat	20	Tamil
35	Andaman & Nicobar Islands	Tahsil	6	Hindi

8.0 References

1. ISO Standard 1000:1992 for SI Units
2. MNIC Coding for Person Identification
3. ISO 693-3 for International language codes
4. RGI's coding schemes for Languages
5. Top level document provided by Working Group on Metadata and Data Standards
6. EGIF (e- Government Interoperability Framework) Standard of U.K.
7. uidai.gov.in/UID_PDF/Working_Papers/A_UID_Numbering_Scheme.pdf
8. http:// www.dolr.nic.in for conversion table of units as used by Department of Land Records

9 GoI Policy on open standards version 1.0 released in November, 2010

10. GoI Face Image data standard version 1.0 published in November, 2010
11. GoI Fingerprint Image data Standard version 1.0 published in November, 2010
12. GoI Iris Image Data Standard Version 0.4, document published in March, 2011

13 UID DDSVP Committee report, Version 1.0, Dec 09, 2009

14. ANSI92 Standard

9.0 List of Contributors

9.1 Core Group Members

S. No	Name & Designation
1	Mr. D.K Sikri Former Special Secretary & Registrar General of India **Chairman**
2	Dr. C. Chandramouli, Registrar General of India
3	Mr. S.K. Chakrabarti - Convener Deputy Director General, Office of RGI (Person Identification)
4	Mr. J. S Panda Former MD (Marketing), - Convener Department of Post (Land Region Codification)
5	Mrs. Aruna Chaba - Nodal Officer Former Senior Technical Director & Head, e-Governance Standards Division ,NIC
6	Mrs. Renu Budhiraja - DIT representative Director, DIT

9.2 List of Members / Co-opted members

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1	Mrs. Anita Mittal , DIT
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17	Mr. S. Mendiratta , Atomic Energy Commission
18	Mr. Muralikrishna Kumar, C & IT