

# **Person Identification Codification**

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**Prepared by:  
Expert Committee on Metadata and Data Standards**

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# **Report of Expert Committee on Metadata and Data Standards For Person Identification**

## **1.0 Scope**

### **1.1 Objective of Person Identification Codification**

To identify each and every person uniquely at the national level to ensure interoperability of information related to individuals collected by various Govt./non Gov. organization. Also to ensure data integrity and smooth horizontal and vertical data exchange related to the individuals across the domain applications.

### **1.2 Description**

- a. Identification of generic data elements for person identification and their business formats
- b. Mechanism for the codification / nomenclature of the generic data elements to reflect parent-child relationship among them
- c. Identification of code directories and their ownerships for updation.
- d. Identification of attributes of the code directories on the basis of identified generic data elements
- e. Standardization of values in the code directories
- f. Identification of Person Identification attributes
- g. Identification of metadata Qualifiers
- h. Preparation of metadata of the data elements
- i. Metadata and Data Standards implementation steps / procedure in domain applications

### **1.3 Approach to be adopted:**

#### **Phase 1**

- a. Mechanism of codification of data elements
- b. Identify generic data elements for person identity
- c. Identify code directories & their ownership
- d. Identify basic qualifiers for metadata
- e. Describe metadata of identified data elements

## **Phase 2**

- a. Finalize generic data elements
- b. Prepare of data elements
- c. Mechanism for centralized publishing, maintenance of metadata elements.
- d. Steps for implementation of MDDS for Person Identification
- e. Mechanism of updation of code directories
- f. Identify Metadata ownerships of data elements

## **2.0 Target Audience:**

- Administrative Governance providers
- Public Services providers like Postal Department, Telecom, FPD, Election Commission, National Population Register
- Welfare Schemes Providers
- Disaster management groups etc.

## **3.0 Type & Enforcement Category:**

Type of Standard Document – **Standard Specification**

Enforcement category - **Recommended**

## **4.0 Definition, Acronyms**

Refer Annexure-I

## 5.0 Data Elements for Person Identifications

### 5.1 Mechanism of codification of Data Elements as per Universal Postal Union Standard: S42a-5

Sno	Data Element	Parts	Instances	Format
1	Data element having no parts and no instances	X	X	xx.yy
2	Data element having parts only and no instances	Y	X	xx.yy-0-1 xx.yy-0-2 etc...
3	Data element having parts and instances	Y	Y	xx.yy-1-1 xx.yy-2-1
4	Data element having instances only and no parts	X	Y	xx.yy-1-0 xx.yy-2-0

xx : Defines the Domain number

yy: Defines the Data Element number within domain xx

xx.yy-0-1: Defines a Part of Data element xx.yy

xx.yy-1-0: Defines an Instances of Data element xx.yy

xx.yy-1-1: Defines the Instances of the Data element part xx.yy-0-1

Here,

**Instance:** Term used for element type/ sub-type, which represents an **occurrence** of the Root element

**Part:** Term used for element type/ sub-type, which represents a physical sub division of the Root element.

**An Illustration:****a. Data element Date has three part like:**

- Day
- Month
- Year

Hence the data element coding would be as follows:

<b>Domain name (xx): Common</b>	<b>00</b>
<b>Data Element: Date</b>	<b>00.01</b>
1 <sup>st</sup> Part of Date: Day	00.01-0-1
2 <sup>nd</sup> Part of date : Month	00.01-0-2
3 <sup>rd</sup> Part of date: Year	01.01-0-3

**b. Data element: Measurement has instances like:**

- (i) Measurement of distance
- (ii) Measurement of Area
- (iii) Measurement of Volume

Hence the data element coding would be as follows:

<b>Domain name (xx): Common</b>	<b>00</b>
<b>Data element: Measurement</b>	<b>00.02</b>
1 <sup>st</sup> Instance - Measurement- Distance	00.02-1-0
2 <sup>nd</sup> Instance - Measurement- Area	00.02-2-0
3 <sup>rd</sup> Instance - Measurement – Volume	00.02-3-0

**c. Data element: Name of a Person has instances like:**

- (iv) Short Name in English.
- (v) Extended name in English
- (vi) Short Name in Local Language ( Recognized Official Language)
- (vii) Extended name in Local Language ( Recognized Official Language)

Further the Short Name in English has three parts like First Name, Middle Name, and Surname. For the above Data element the code would be as follows:

Domain name (xx)	01
<b>Data Element: Name of the person in above domain</b>	01.02
<b>1<sup>st</sup> Instance : Short name in English</b>	<b>01.02-1-0</b>
- 1 <sup>st</sup> part of the name in English	01.02-1-1
- 2 <sup>nd</sup> part of name in English	01.02-1-2
- 3 <sup>rd</sup> part of name in English	01.02-1-3
<b>Extended name in English as 2<sup>nd</sup> instance of name of a person having no further parts</b>	<b>01.02-2-0</b>
<b>Short name in Recognized Official Language as 3<sup>rd</sup> instance of name of a person</b>	<b>01.02-3-0</b>
- 1 <sup>st</sup> part of the name in Recognized Official Language	01.02-3-1
- 2 <sup>nd</sup> part of name in Recognized Official Language	01.02-3-2
- 3 <sup>rd</sup> part of name in Recognized Official Language	01.02-3-3
<b>Extended name Recognized Official Language as 4<sup>th</sup> instance of name of a person having no further parts</b>	<b>01.02-4-0</b>

**Note: The generic data elements codes would be used only to maintain the generic data elements Repository to be maintained centrally.**

## 5.2 Common Generic Data Elements

Serial no	Name of data element	Description of data element	Data format at Interface level	Finalization Status
<b>G00 Common Generic data elements</b>				
<b>G00.01</b> G00.01-0-1	<b>Date</b> - Day as part	Calendar date	dd/mm/yyyy	Finalized
G00.01-0-2	- Month as part			
G00.01-0-3	- Year as part			
<b>G00.02</b> G00.02-1-0	<b>Measurement:</b> - Distance as instance	Meter	Number(12,3)	Finalized
G00.02-2-0	- Area as instance	Meter Square	Number(12,3)	
G00.02-3-0	- Volume as instance	Meter Cube	Number(12,3)	
G00.03	Financial year	Financial year	Varchar(7) yyyy-(yy+1)	Finalized
G00.04	Amount	Amount	Number (15,2)	Finalized
G00.05	Language Code	Language code for recognized 22 official languages	Varchar(2)	Finalized
<b>G00.06</b> G00.06-1-0 G00.06-2-0 G00.06-2-1 G00.06-2-2	<b>Telephone no.</b> Mobile number Land line number 1 <sup>st</sup> part (STD no) 2 <sup>nd</sup> part(Phone no )	Telephone number/ mobile number	Varchar(11)	Finalized (it's format will change in future if telephone department changes it)
G00.07	Calendar Year	Calendar year	Number(4) yyyy	Finalized

### 5.3 Generic Data Elements for Person Identification

Generic data element code no	Name of data element	Description of data element	Data format	Finalization Status
<b>G01 Generic Data Elements for Person Identification</b>				
G01.01	Person Identification Number	<p>Unique Person identification number at national level as per UID</p> <p><b>UID 11 digit describe as following</b></p> <p>1- (s1-s3) 3 digit represent to state (000-999)</p> <p>2-digit (4 &amp; 5) ) for series allocated to <b>district by state</b> (00-99)</p> <p>3-digit 6 to 10 is a serial number (00001-99999)</p> <p>4- 11<sup>th</sup> digit use for checksum.</p> <p>5-<b>algorithms</b> used in <b>UID</b> is (<b>modulus 10</b>)</p>	Varchar(11)	<p>For time being its ok.</p> <p>However, algorithm of allocation of ID would be standardized as a part of UID project,</p>
<b>G01.02 Name Person name</b>				
G01.02-1-0	Short Name in English (SNE)	Name in English in short form, in original sequence, as the person wants to be displayed in reports	Varchar(30)	Finalized
G01.02-1-1	- 1 <sup>st</sup> part		(10+10+10)	
G01.02-1-2	- 2 <sup>nd</sup> part			
G01.02-1-3	- 3 <sup>rd</sup> part			

G01.02-2-0	Full Name in English(FNE)	Full Name in English as extended, for the purpose of searching with at least one blank to break the string in two or more parts	Varchar(75)	Finalized
G01.02-3-0 G01.02-3-1 G01.02-3-2 G01.02-3-3	Short Name in Recognized Official Language (SNL) 1 <sup>st</sup> part 2 <sup>nd</sup> part 3 <sup>rd</sup> part	Name in local language as short form in original sequence, as the person wants to be displayed in reports	Varchar(30)  (10+10+10)	Finalized
G01.02-4-0	Full Name in Recognized Official Language (FNL)	Full Name in local language extended, for the purpose of searching with at least one blank to break the string in two or more parts	Varchar(75)	Finalized
G01.03	Gender Identification code	M - Male F - Female T - Transgender	Varchar(1)	Finalized
G01.04	Current marital status identification	1- never married 2- currently 3- Widow / Widower 4- Divorced/Separated	Varchar (1)	finalized
G01.05	Title	Prefix to name of the person  Values as per code directory on <b>titles</b>	Varchar(15)	Finalized
G01.06	Suffix	Suffix to name of the person  Values as per code directory on <b>Suffix</b>	Varchar(15)	Finalized
G01.07	Relation type	H- <b>Head of house hold</b>	Char(1)	Finalized

		N- Not head of house hold ( Default value "N")		
G01.08	Relationship	Relationship code of the person, with head of the family like Self, sister, brother, maternal uncle etc.  Values as per code directory for <b>relationships</b>	Varchar(2)	Finalized
Generic data element code no	Name of data element	Description of data element	Data format	Finalization Status
G01.09	Photo	Data elements for Person's facial identification		To be decided by Expert committee on Biometrics
G01.10	Finger print	Data elements for Person's finger prints identification		To be decided by Expert committee on Biometrics
G01.11	Visible identification marks	Description of iris ,physical identification marks on body	Varchar (50)	Finalized
G01.12	Signature	Data element for Person signature		To be decided by Expert committee on Biometrics
G01.13	Code for Education Attained	Values as per code directory on <b>Education Qualifications</b>	Varchar(3)	Finalized
G01.14	Religious code	Values as per code directory on <b>Religion</b>	Varchar(2)	Finalized
G01.15	Occupation category	Values as per code directory on <b>Occupations</b>	Varchar (2)	Finalized
G01.17	Date type	Type of date - <b>Actual</b> - <b>Declared</b>	Char (1)	Finalized

		( Default – A)		
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#### 5.4 LIST OF CODE DIRECTORIES FOR PERSON IDENTIFICATION

S.No	Code Directory name	Proposed Owner of the code directory
1	Language	RGI Office
2	Religion	RGI Office
3.	Occupation	National Classification of Occupation , Ministry of Statistics & Programming Implementation
4.	Education	Department of Higher Education
5.	Title	Ministry of Home Affairs
6.	Suffix	Ministry of Home Affairs
7.	Relationship	ICSSR or Anthropological Survey of India

## 5.4.1 ATTRIBUTES OF CODE DIRECTORIES FOR PERSON IDENTIFICATION

### 5.4.1.1 State's Official Language Code Directory

Serial no	Name of data element	Description of data element	Data format	Finalization Status	Generic data element reference no.
1.0	Language code	Unique code for 1st Recognized Official Language of a state	Varchar(2)	finalized	G00.05
1.1	Name of language in English	Name of the language in English ( Capital letters)	Varchar (45)		<b>G02.02-1-0</b>
1.2	Name of language in recognized Official Language	Name of the Recognized Official Language is Unique	Varchar (45)		<b>G02.02-2-0</b>

### 5.4.1.2 Religion Code Directory

Serial no	Name of data element	Description of data element	Data format	Finalization Status	Generic data element reference no.
1.0	Religion code	Unique code Religion	Varchar(2)	finalized	G01.14
1.1	Name of Religion in English	Name of the Religion like: Hinduism	Varchar (15)		

### 5.4.1.3 Occupation Code Directory

Serial no	Name of data element	Description of data element	Data format	Finalization Status	Generic data element reference no.
1.0	Occupation Category	Unique code for Occupation	Varchar(2)	finalized	G01.15
1.1	Name of Occupation in English	Name of the Occupation like:	Varchar (30)		

### 5.4.1.4 Education Attained Code Directory

Serial no	Name of data element	Description of data element	Data format	Finalization Status	Generic data element reference no.
1.0	Education attained code	Unique code for Education	Varchar(2)	finalized	G01.13
1.1	Name of Education attained in English	Name of the Education like:	Varchar (30)		

### 5.4.1.5 Title Code Directory

Serial no	Name of data element	Description of data element	Data format	Finalization Status	Generic data element reference no.
1.0	Title code	Unique code for Title	Varchar(2)	finalized	G01.05
1.1	Name of Title in English	Name of the Title to be prefixed with name of the person like: Mr. Mrs. ...	Varchar (15)		

### 5.4.1.6 Suffix Code Directory

Serial no	Name of data element	Description of data element	Data format	Finalization Status	Generic data element reference no.
1.0	Suffix code	Unique code for Suffix	Varchar(2)	finalized	G01.06
1.1	Name of Suffix in English	Name of the Suffix to name of the person like: IAS, CA etc..	Varchar (15)		

**5.4.1.7 Relationship Code Directory**

<b>Serial no</b>	<b>Name of data element</b>	<b>Description of data element</b>	<b>Data format</b>	<b>Finalization Status</b>	<b>Generic data element reference no.</b>
1.0	Relationship code	Unique code for Relationship	Varchar(2)	finalized	G01.08
1.1	Name of Relationship in English	Name of the blood Relationship like sister, etc.  & marriage relationship likes husband, wide etc. self - spouse -	Varchar (20)		

### 5.5 Person identification data elements in a domain application: an illustration

Serial no	Name of data element	Description of data element	Data format	Data element type ( Primary - Minimal common attribute Secondary-Additional attribute)	Data element nature ( Mandatory-NULL Values not allowed Optional – NULL values allowed)	Generic data element ref. no
1	PIDN (Primary key)	Personal Identification Number	Varchar(11)		Mandatory	G01.01
2.1	PSNE	Personal name in English as Short form in Original Sequence	Varchar (30)	Primary	Mandatory	G01.02-1-0
2.2	PFNE	Personal name in English as Expanded form in Original Sequence.	Varchar(75)	Primary	Mandatory	G01.02-2-0
2.3	PSNL	Person's short name in Recognized Official Language	Varchar (30)	Primary	Mandatory	G01.02-3-0
2.4	PFNL	Person's full name in Recognized Official Language as Expanded form in Original Sequence	Varchar(75)	Primary	Mandatory	G01.02-4-0
3.0	FPIDN	Father's Identification Number.	Varchar(11) or Null	Primary	Mandatory ( name of any of father, mother, spouse is mandatory)	G01.01
4.1	FSNE	Father's name in English as Short form in Original Sequence.	Varchar(30) or Null	Primary	Mandatory	G01.02-1-0
4.2	FFNE	Father's name in English as Expanded form in Original Sequence	Varchar( 75) or Null	Primary	Mandatory	G01.02-2-0
4.3	FSNL	Father's name in Recognized Official Language as Short form in Original Sequence.	Varchar(30) or Null	Primary	Mandatory	G01.02-3-0
4.4	FFNL	Father's name Recognized Official	Varchar(75) or	Primary	Mandatory	G01.02-4-0

		Language as Expanded form in Original Sequence	Null			
5	MIDN	Mother's Identification Number	Varchar(11) or Null	Primary	( name of any of father, mother, spouse is mandatory)	G01.01
5.1	MSNE	Mother's name in English as Short form in Original Sequence.	Varchar(30) or Null	Primary	Mandatory	G01.02-1-0
5.2	MFNE	Mother's name in English as Expanded form in Original Sequence	Varchar(75) or Null Part	Primary	Mandatory	G01.02-2-0
5.3	MSNL	Mother's name in Recognized Official Language as Short form in Original Sequence.	Varchar(30) or Null	Primary	Mandatory	G01.02-3-0
5.4	MFNL	Mother's name in Recognized Official Language as Expanded form in Original Sequence	Varchar(75) or Null	Primary	Mandatory	G01.02-4-0
6	SIDN	Spouse's Identification Number.	Varchar(11) or Null	Primary	( name of any of father, mother, spouse is mandatory)	G01.01
6.1	SSNE	Spouse's name in English as Short form in Original Sequence.	Varchar(30) or Null	Primary	Mandatory	G01.02-1-0
6.2	SFNE	Spouse's name in English as Expanded form in Original Sequence.	Varchar(75) or Null	Primary	Mandatory	G01.02-2-0
6.3	SSNL	Spouse's name in Recognized Official Language as Short form in Original Sequence	Varchar(30) or Null	Primary	Mandatory	G01.02-3-0
6.4	SFNL	Spouse's name in Recognized Official Language as Expanded form in Original Sequence	Varchar(75) or Null	Primary	Mandatory	G01.02-4-0
7	GID	Gender Identification code	Varchar(1)	Primary	Mandatory	G01.03

8	DOB	Date of Birth as per Indian Date Conventions	Varchar(10) (dd-mm-yyyy)	Primary	Mandatory	G00.01
9	DOBT	Type of date of birth (actual/declared)	Char (1)	Primary	Mandatory	G01.17
10	Status in family	Head / not head of the family	Char(1)	Primary	mandatory	G01.07
<b>11</b>	<b>POB Place of birth</b>					
11.1	POBN	Name of locality (Town / Village)	Varchar(45)	Primary	optional	G02.01
11.2	POBSD	Name of Sub District	Varchar(45)	Primary	Optional	G02.01
11.3	POBD	Name of District	Varchar(45)	Primary	Optional	G02.01
11.4	POBS	Name of state	Varchar(45)	Primary	optional	G02.01
11.5	POBC	Name of country	Varchar(45)	Primary	optional	G02.01
12.1	<b>Premise Address</b>					
12.1.1	PRMAD	Present address	Primary	Mandatory		G02.03
	PMADD2	Sub locality 3	Varchar(30)			G02.03-1-4
		Sub locality 2	Varchar(30)			G02.03-2-4
	PMADD2	Sub locality 1	Varchar(30)			G02.03-3-4
	LOC	Locality (Town / Village)	Varchar(45)			G02.03
	PIN	PIN Code No allocated by postal dept.	Number(6)			G02.04-0-1
12.1.2	PMADD1	House No/Block NO	Varchar(6)			G02.03-1-3

	PMADD2	Sub locality 3	Varchar (30)	mandatory		G02.03-1-4
		Sub locality 2	Varchar (30)			G02.03-2-4
	PMADD2	Sub locality 1	Varchar (30)			G02.03-3-4
	LOC	Locality ( Town / Village)	Varchar(45)			G02.03
	PIN	PIN Code No allocated by postal dept.	Number(6)			G02.04-0-1
13	PHOTO	Photograph		Primary	Mandatory	G01.09
14	FPID	Finger Print		Primary	Mandatory	G01.10
15	VIM	Visual identification marks	Varchar(50)	Secondary	Optional	G01.11
16	SNE	Signature		Primary	Optional	G01.12
17	DOC	Date of data collection		Primary	Mandatory	G00.01
18.1	TELE1	Telephone No 1(land line no)	Varchar(11)	Primary	Optional	G00.06
18.2	TELE2	Telephone No 2 (mobile no)	Varchar(11)	Primary	Optional	G00.06
19	MSID	Current marital Status Identification	Varchar(1)	Primary	Mandatory	G01.04
20	EQC	Education qualification attained	Varchar(3)	Primary	Mandatory	G01.13
21	OCC	Occupation category	Varchar(2)	Secondary	Optional	G01.15
22	Title	Title	Varchar(2)	Secondary	Optional	G01.05
23	Suffix	Suffix	Varchar(2)	Secondary	Optional	G01.06
24	Official language code	State official language	Varchar(2)	Primary	Mandatory	G00.05

## 5.6 METADATA OF GENERIC DATA ELEMENTS:

### 5.6.1 Template for Metadata elements (Source: eGIF standard for Metadata )

#	Item	Description
1	Name	Name & numbering 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
4	Is part of any	
5	Parts if any	
6	Format	Character/Numeric/Date etc
7	Size	Maximum Size
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 (e.g. Male, Female)
10	Default Value	For any list of values, the default value to be used unless otherwise stated.
11	Owner	Names(s) of the departments who owns the standard.
12	Based on	Origin of Standard
13	Version	The version number of this standard
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
18	Date of Publishing	The date on which HTML or PDF version will be created, which form the XML source document.

### 5.6.1 Metadata of Generic Data Elements

### 5.6.2 Common Generic Data Elements

Name of Data Element	Date (G00.01)
Description of Data Element	<b>Date as per Indian Date Conventions</b>
Data Element Type (Generic / Custom)	Generic
Is part of any	Common Generic Data Element
Part if any	- Day → G00.01-0-1 - Month → G00.01-0-2 - Year → G00.01-0-3
Data Format	Varchar ( <b>dd-mm-yyyy</b> )
size	10
Validation	
values	yyyy should be a valid year number. mm in Range 01-12. dd in Range 01-31.
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example:-08/12/08

08 represent for day  
12 represent for month  
08 represent for year

Name of Data Element	Measurement (G00.02)
Description of Data Element	<ul style="list-style-type: none"> <li>- Measurement of <b>Distance (in meter)</b> <span style="float: right;"><b>G00.02-1-0</b></span></li> <li>- Measurement of <b>surface: Area (square meter)</b> <span style="float: right;"><b>G00.02-2-</b></span></li> <li>- Measurement of <b>capacity of container: volume(cubic meter)</b> <b>G00.02-3-0</b></li> </ul> <p>The above are instances of measurement</p>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Number
size	(12,3)
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

<b>Name of Data Element</b>	<b>Financial year (G00.03)</b>
Description of Data Element	<b>Financial Year</b> yyyy-(yy+1)
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Varchar
size	7
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example: - financial year is 2008-09

Name of Data Element	Amount (G00.04)
Description of Data Element	<b>Amount</b> Amount stored in database must be numeric  For printing purpose there is a function to convert the character (lakhs, cores) & (.). Should be printed in Indian standard ( Rs. -----,--,--,--- )
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Numeric
size	(15,2)
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example for amount is: - 1, 10,400 Rs

One lakh ten thousand four hundred rupees

<b>Name of Data Element/ Number</b>	<b>Language code (G00.05)</b>
Description of Data Element	Defines 22 Recognized Official Language code
Data Element Type (Generic/Custom)	Generic
Is Part of	
Parts if any	
Data Format	Varchar
Size	2
Validations	
Values	Values taken from language code directory provided by RGI
Default Value	
Owner of Data element standard	RGI Office
Based on	
Version	To be allocated at the time of publication
Status	Draft
Date Agreed	
Verification	
Comments	
Date of Publishing	To be allocated at the time of publication

Example: language code 06 for Hindi

Name of Data Element	Telephone No (G00.06)
Description of Data Element	<b>Telephone number</b> <b>(Mobile number G00.06-1-0</b> <b>Land line number G00.06-2-0</b> mobile no and land line number are instance of telephone number)
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	Land line number part STD number G00.06-2-1  Phone number G00.06-2-2
Data Format	Varchar
size	11
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example for land line telephone no: - 01125222222

Here 011 for STD code

And 25222222 for land line no.

Example for mobile no . 09899778050 or 9899778050

<b>Name of Data Element</b>	<b>Calendar year (G00.07)</b>
Description of Data Element	<b>Calendar Year</b> -yyyy
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part of any	
Data Format	Varchar
size	4
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example: - 2008 calendar year

Name of Data Element	Person Identification Number (G01.01)
Description of Data Element	<p>Unique Person Identification Number to be allocated by an agency, which would enable interoperability of data related to a person in various domain applications</p> <p>the 11 digit code scheme for person identification in UID project is as follows:</p> <p>1- <b>(s1-s3) 3 digit represent to state</b> (000-999)  2-<b>digit (4 &amp; 5)</b> ) for series allocated to <b>district by state</b> (00-99)  3-<b>digit 6 to 10</b> is a serial number (00001-99999)  4- 11<sup>th</sup> digit use for checksum.  5-<b>algorithms</b> used in <b>UID</b> is <b>(modulus 10)</b></p>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Varchar
size	11
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	for time being the above coding scheme is ok. However, later, its algorithm would be standardized as a part of UID project,
Date of Publication	To be allocated at the time of publication

Name of Data Element	Short Name In English (SNE) (G01.02-1-0)
Description of Data Element	<b>Name in English as Short form in Original Sequence.</b> The way of the person wants to be identified. ( In capital letters)  It is an instance of name of a person
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	1 <sup>st</sup> part → G01.02-1-1  2 <sup>nd</sup> part → G01.02-1-2  3 <sup>rd</sup> part → G01.02-1-3
Data Format	Varchar
size	30 ( 10 + 10 + 10)
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	The length of 1 <sup>st</sup> name, middle name and surname would be flexible within 30 characters, with a gap between the three parts. . Later on, if required, a mechanism may be built to derive three parts of the short name in English.
Date of Publication	To be allocated at the time of publication

Example:- S P CHAUHAN

Here → **S**-for 1<sup>st</sup> part of the name  
**P**-for 2<sup>nd</sup> part of the name  
**CHAUHAN**-for 3<sup>rd</sup> part of the name

Preeti Sinha

Here → **Preeti** for 1<sup>st</sup> part in name  
**Sinha** for 2<sup>nd</sup> part of the name

Name of Data Element	Full Name In English (FNE) (G01.02-2-0)
Description of Data Element	<b>name in English as Expanded form in Original Sequence (To be used for searching)</b>  It is an instance of name
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Varchar
size	75
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example:-full name in English → Suraj Prakash Chauhan

Name of Data Element	Short Name In Recognized Official Language (SNL) (G01.02-3-0)
Description of Data Element	<b>Name in Recognized Official Language as Short form in Original Sequence.</b> The way of the person wants to be identified / printed.  It is an instance of name
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	1 <sup>st</sup> part → G01.02-21-1  2 <sup>nd</sup> part → G01.02-2-2  3 <sup>rd</sup> part → G01.02-2-3
Data Format	Varchar
size	30
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	The length of 1 <sup>st</sup> name, middle name and surname would be flexible within 30 characters, with a gap between the three parts. . Later on, if required, a mechanism may be built to derive three parts of the short name in local official language.
Date of Publication	To be allocated at the time of publication

Name of Data Element	Full Name In Recognized Official language (FNL) (G01.02-4-0)
Description of Data Element	<p><b>Person's full name in Recognized Official Language as Expanded form in Original Sequence (for the purpose of searching).</b></p> <p>It is an instance of name</p>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	Person name
Data Format	Varchar
size	Maximum 75
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	For the searching purpose
Date of Publication	To be allocated at the time of publication

<b>Name of Data Element</b>	<b>Gender Identification (G01.03)</b>
Description of Data Element	<b>Gender identification of a person</b>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	Person name
Data Format	Varchar
size	Part character length is 1
Validation	
values	M - Male F - Female T - Transgender
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example:- M-represents male

Name of Data Element	Marital Status (G01.04)
Description of Data Element	Current marital Status Identification
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	Person name
Data Format	Varchar
size	Part character length is 1
Validation values	1 - never married 2 - current married 3- widow / widower 4- divorced/separated
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example: - code for never married represented by 1

Name of Data Element	Title (G01.05)
Description of Data Element	Title related to gender and marital status, to be prefixed with name of a person
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Varchar
size	Part character length is 2
Validation	
values	Mr. , Mrs... refer to title code directory for more values
Default value	
Owner	Ministry of Home Affairs
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example: - 02 code represents **Mr.**

<b>Name of Data Element</b>	<b>Suffix (G01.06)</b>
Description of Data Element	<b>Suffix ( This is usually related to the professional title</b>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Varchar
size	Part character length is 2
Validation	
values	IAS,IPS,CA etc Refer to suffix code directory for more values
Default value	
Owner	Ministry of Home Affairs
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example:-06 code represents MD

<b>Name of Data Element</b>	<b>Relation Type (G01.07)</b>
Description of Data Element	<b>Type of relationship</b>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Varchar
size	1
Validation	
values	H-head of house hold N-not head of house hold ( Default value)
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example:-relation type **H** represents Head of House Hold

Name of Data Element	Relationship Code (G01.08)
Description of Data Element	Blood relationship / marriage relationship with head of the family
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Varchar
size	2
Validation	
values	Spouse, sister, Brother, Niece etc. Refer to code directory for more values
Default value	
Owner	ICSSR or Anthropological Survey of India
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example:-**01** code represents Self Relationship code

Name of Data Element	Photo (G01.09)
Description of Data Element	<b>Photograph</b>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Awaited from Expert committee in Biometrics
size	
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

<b>Name of Data Element</b>	<b>Finger Print Identification (G01.10)</b>
Description of Data Element	<b>Finger Print Identification</b>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	<b>Awaited from Expert committee in Biometrics</b>
size	
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	For all 10 fingers
Date of Publication	To be allocated at the time of publication

<b>Name of Data Element</b>	<b>Visible Identification mark (G01.11)</b>
Description of Data Element	<b>Visible physical identification marks on the body of the person, which can be described</b>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part of any	
Data Format	Varchar
size	Maximum 50
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

<b>Name of Data Element</b>	<b>Signature/Thumb impression (G01.12)</b>
Description of Data Element	<b>Signature /Thumb impression precession</b>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	<b>Awaited from Expert committee in Biometrics</b>
size	
Validation	
values	
Default value	
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	Also take Iris,
Date of Publication	To be allocated at the time of publication

Name of Data Element	Education Attained code (G01.13)
Description of Data Element	Attained Educational Qualification code
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Varchar
size	3
Validation	
values	MBBS, Graduate etc. Refer to education attained code directory for more values
Default value	
Owner	Department of Higher Education
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example:- **01** code represents **Illiterate**

<b>Name of Data Element</b>	<b>Religion Code (G01.14)</b>
Description of Data Element	<b>Religion Code</b>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part of any	
Data Format	Varchar
size	2
Validation	
values	
Default value	
Owner	RGI office
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example:-**01** code represents **Hinduism**

Name of Data Element	Occupation Category (G01.15)
Description of Data Element	Code for Occupation Category
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Varchar
size	2
Validation	
values	
Default value	
Owner	National Classification of Occupation , Ministry of Statistics & Programming Implementation
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example:-**01** code represents **Legislators**

<b>Name of Data Element</b>	<b>Date Type (G01.16)</b>
Description of Data Element	<b>Type of date</b>
Data Element Type (Generic / Custom)	Generic
Is part of any	
Part if any	
Data Format	Varchar
size	1
Validation	
values	<b>A-</b> Actual (G01.16-1-0) <b>D-</b> Declared (G01.16-2-0)
Default value	A- Actual
Owner	
Based on	
Version	To be allocated at the time of publication
status	Draft
Date agreed	
Verification	
Comments	
Date of Publication	To be allocated at the time of publication

Example:-**A** represents the actual date of Person Birth.

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## **6.0 Steps for implementation of MDDS for Person Identification**

To be worked out in phase 2

## 7.0 Annexure

### Annexure – I Definitions and Acronyms

Terms	DEFINITION	Source
TITLE	A form of nomenclature indicate a person status (professor) or used as a form of address or reference (mr.)	The concise oxford dictionary of current English -8 <sup>th</sup> edition
OCCUPATION	The principal activity in your life that you do to earn money	<a href="http://www.wordreference.com/definition/occupation">www.wordreference.com/definition/occupation</a>
EDUCATION	the process of training and developing the knowledge, skill, mind, character, etc., esp. by formal schooling; teaching; training	<a href="http://www.yourdictionary.com/education">www.yourdictionary.com/education</a>
SIGNATURE	your name written in your own handwriting	<a href="http://wordnet.princeton.edu/perl/webwn">wordnet.princeton.edu/perl/webwn</a>
Relationship	Connection between persons by blood or marriage.  An emotional or other connection between people like teacher, student etc...	<a href="http://www.dictionary.com">www.dictionary.com</a>
Photo	A picture of a person or scene in the form of a print or transparent slide; recorded by a camera	<a href="http://dictionary.die.net/photograph">http://dictionary.die.net/photograph</a>
Finger print	The unique patterns created by skin ridges found on the palm sides of fingers and thumbs.	<a href="http://psblogs.net/crimescene/files/2007/06/forensics-terms.doc">psblogs.net/crimescene/files/2007/06/forensics-terms.doc</a>
Language	A systematic means of communicating by the use of sounds or conventional symbols	<a href="http://wordnet.princeton.edu/perl/webwn">wordnet.princeton.edu/perl/webwn</a>
Primary	Minimal common attribute, which uniquely identifies the Data Element	( <a href="http://www.govtalk.gov.uk">www.govtalk.gov.uk</a> )
Owner	In Meta Data it is defined as -Owner of Data element standard - Owner of Code directory having Update rites - Owner of specific domain application data element	

Optional	Indicates an argument does not have to be coded and is assigned a default value if the argument is not present.	<a href="http://www.govtalk.gov.uk">http://www.govtalk.gov.uk</a>
Mandatory	A data element/segment requirement designator which indicates the presence of a specified data element is required; it defines that the field value must not be blank	<a href="http://www.govtalk.gov.uk">http://www.govtalk.gov.uk</a>

**Annexure II - CODE DIRECTORY CODES, VALUES and Ownership****i. State's Recognized Official Language proposed owner- RGI office**

<b>Language Code</b>	<b>Values</b>
01	Assamese
02	Bangali
03	Bodo
04	Dogri
05	Gujarati
06	Hindi
07	Kannada
08	Kashmiri
09	Konkani
10	Maithili
11	Malayalam
12	Manipuri
13	Marathi
14	Nepali
15	Oriya
16	Punjabi
17	Sanskrit
18	Santhali
19	Sindhi
20	Tamil
21	Telegu
22	Urdu

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Present Values source RGI

**ii. Religion Codes & Values and proposed owner:-RGI office**

Code	Values
01	Hinduism
02	Islam
03	Christianity
04	Sikhism
05	Buddhism
06	Jainism
07	other

Present Values source RGI

**iii. Occupation Codes , Values and proposed owner :-ministry of statistics and programming implementation**

Code	Values
01	legislators and Senior officials
02	Corporate Manager
03	General Manager
04	Physical , mathematical and engineering science professional
05	Life science and health professional
06	Teaching professional
07	other professional
08	physical and engineering science associate professional
09	life sciences and health associate professional

10	Teaching associate professional
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 labor
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

Present Values source RGI

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**iv Education Codes ,Values and proposed owner :-Department of Higher Education**

Education Group	Education Sub Group	Code
Illiterate		01
Literate (Without Educational Level)		02
Below Primary		03
Primary		04
Middle/Lower Secondary		05
Matriculation/Junior School Certificate/Secondary		06
Higher Secondary/Intermediate/ Pre-University/Senior Secondary		07
Non- Technical Diploma/Certificate not equal to Degree		08
<b>Non- Technical Diploma/Certificate not equal to Degree</b>		
	Diploma/Certificate in ENGINEERING	09
	Diploma/Certificate in MEDICAL	10
	Diploma/Certificate in TECHNOLOGY	11

	Diploma/Certificate in AGRICULTURE, DAIRYING, FORESTRY	12
	Diploma/Certificate in VETERINARY	13
	Diploma/Certificate in TEACHING OF GENERAL SCIENCE	14
	Diploma/Certificate AWARDED BY INDUSTRIES DEPTT.	15
	TRADE CERTIFICATE IN GENERAL SCIENCE	16
	TEACHING CERTIFICATE	17
	DIPLOMA IN CITY AND GUIDES OF LONDON INSTITUTE	18
	CERTIFICATE IN JOURNALISM	19
	P.L.	20
	TECHNICAL DIPLOMA	21
	PHOTOGRAPHY/ PHOTO MECHANIC CONVERSION COURSE	22
	DIPLOMA IN OCCUPATIONAL THERAPY/PHYSIOTHERAP Y	23
Graduate Degree other than Technical Degree		24

Post Graduate Degree other than Technical Degree		25
<b>Technical Degree or Diploma Equal to Degree or Post-Graduate</b>		
	ENGINEERING AND TECHNOLOGY	26
	MEDICINE	27
	AGRICULTURE AND DAIRYING	28
	VETERINARY	29
	TEACHING	30
	OTHERS	31
Literate, but educational level Unclassified/not stated	Unclassified, Blank, NA, Not Stated	99

Present Values source RGI

**Note:** The codes need to be worked out again to reflect education group also

#### v. Title Codes, Values and proposed owner:-ministry of home affairs

Code	Values
01	Dr.
02	Mr.
03	Mrs.
04	Ms.
05	Shri

06	Smt.
07	Sushri

Present Values source RGI

#### **Vi. Suffix Codes, Values and proposed owner. :-ministry of home affairs**

<b>Code</b>	<b>Values</b>
01	CA
02	Engg.
03	Bharat Ratna
04	Padam vibhushan
05	M.B.B.S
06	MD
07	IAS
08	IFS

Present values Source: Top level documents prepared by the working group as a part of title.

#### **Vii. Relationship Codes, Values proposed owner:-icssr or anthropological survey of India**

<b>Code</b>	<b>values</b>
01	Self
02	Spouse
03	Father
04	Mother
05	Son
06	Daughter
07	Brother
08	Sister
09	Father In Law

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10	Mother In Law
11	Brother-In-Law
12	Sister-In-Law
13	Nephew
14	Niece
15	Grandson
16	Granddaughter
17	Grandfather
18	Grandmother

Present value source: RGI

## **8.0 References**

1. OASIS – xNL Version 2.0
2. MNIC Coding for Person Identification
3. UID Coding for Person Identification
4. Recommendations of core group on Land Region codification
5. RGI's coding schemes for Languages, Religions, Castes, Occupation, Educational Qualifications
6. Top level document provided by Working Group

**9.0 Observations / feedback yet to be finalized for incorporation in the draft document**

1. Fixing of Confidentiality level of the data elements like (Open to all, open only o security agencies / NGOs etc...)
2. How to address history of names of a person, if changed
3. Photograph, signature, Finger prints business format yet to be provided by Expert committee on Biometrics
4. The values for code directories recorded in Annexure III are for sampling only. They are yet to be finalized, in consultation with their owners
5. Definitions in Annexure -1, yet to be vetted by the appropriate authorities

## 10.0 List of Members/co-opted members of expert committee

### 10.1 list of members of Expert Committee

S. No	Name & Designation	Phone No/Email
1.	<b>Mr. D. K. Sikri , AS &amp; RGI Chairman</b>	23383761 <a href="mailto:orgindia@vsnl.net">orgindia@vsnl.net</a>
2.	Shri S. K Chakraborty Deputy Director General, Office of RGI	9868880096 <a href="mailto:Skchak_2001@yahoo.co.in">Skchak_2001@yahoo.co.in</a>
3.	Shri Ritvik Pandey Secretary IT, Election Commission of India	23717391 <a href="mailto:ritvikp@eci.gov.in">ritvikp@eci.gov.in</a>
4.	Mr. D.C Mishra, Senior Technical Director, NIC	24305328 <a href="mailto:dcmisra@nic.in">dcmisra@nic.in</a>
5.	Mr.P. B. Vinaya Senior Technical Director, NIC	24305191,9891161211 <a href="mailto:vinayab@nic.in">vinayab@nic.in</a>
6.	Dr.P. Balasubramanian Senior Technical Director & Head, (OTC), NIC	09444901305 <a href="mailto:p.balu@nic.in">p.balu@nic.in</a>
7.	<b>Ms. Aruna Chaba (Nodal Officer) Senior Technical Director &amp; Head,(eGSD), NIC &amp; Convener / Nodal Officer</b>	<b>24305812,9899778200 <a href="mailto:chaba@nic.in">chaba@nic.in</a></b>
8.	And representatives from Ministry of Agriculture, Ministry of Rural Development, and Members of Land record from DIT	

### 10.2 list of core group members

S. No	Name & Designation	Phone No/E-mail
1.	Mr. S.K Chakarborti Deputy Director General, Office of RGI Of group on Person Identification	9868880096 <a href="mailto:skchak_2001@yahoo.co.in">skchak_2001@yahoo.co.in</a>
2.	Mr. Ritvik Pandey Secretary IT, Election commission of India	23717391 <a href="mailto:ritvikp@eci.gov.in">ritvikp@eci.gov.in</a>
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4.	Ms. Radha Chauhan, Principal Consultant, NeGP, PMU, DIT	9910171264 <a href="mailto:radha@negp.gov.in">radha@negp.gov.in</a>
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