



Ministry of Public Administration and Home Affairs



E-SRI LANKA DEVELOPMENT PROJECT

**Lanka Interoperability Framework
(LIFe)**

**Version 0.9.2
31st March 2006**

Information and Communication Technology Agency of Sri Lanka

Document Revisions

Date	Version	Revised By	Revisions
2005/07/28	V0.1	Re-Gov (ICTA)	Document drafted.
2005/08/01	V0.2	Re-Gov (ICTA)	Added the remaining data elements. Included Wasantha's comments.
2005/08/03	V0.3	Re-Gov (ICTA)	Made changes based on Citizen Data Architecture Committee meeting held on 02/08/05.
2005/08/08	V0.31	Re-Gov (ICTA)	Examples were updated
2005/08/22	V0.4	Re-Gov (ICTA)	Telephone number section updated Modified the Country Code
2005/10/26	V0.5	Re-Gov (ICTA)	Included public comments Re-arranged the elements to have a proper order
2005/11/02	V0.6	Re-Gov (ICTA)	Included comments from committee reviews The order of the elements are re-arranged. The table of contents will provide a quick glimpse of the order Phone number is separated into Country code, area code, and phone number. Religion has a new entry called "No Religion" A new element called "4.8 Preferred Language" is introduced Ethnicity "Sri Lankan Moor" was changed to "Muslims".
2005/11/21	V0.7	Re-Gov (ICTA)	The Ethnicity "Muslims" was changed back to "Sri Lankan Moor" as per the letter from "Department of Muslim Religious And Cultural Affairs" dated 2005/11/11
2006/01/02	V0.8	Re-Gov (ICTA)	Included the NIC number representation format in the NID card comments section.
2006/01/06	V0.9	Re-Gov (ICTA)	Revised the order of elements listed under section3 – LIFe Data Architecture. In Document Revision section changed the date format to comply with LIFe standards
2006/03/10	V0.9.1	Re-Gov (ICTA)	Included Street_Name_1 and Street_Name_2 instead of single Street_Name
2006/03/31	V0.9.2	Re-Gov (ICTA)	Changed Block Number length to 5

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1 Introduction

Lanka Interoperability Framework (LIFe) is an initiative undertaken by Ministry of Public Administration and Home Affairs in collaboration with Information and Communication Technology Agency (ICTA) to establish recommendations for common data architecture and standards for data exchange for the Government of Sri Lanka.

ICTA as part of the Technical Architecture, Security and Standards (TASS) program has published documents on Government ICT Policies, National Enterprise Architecture Standards Guidelines and Information Security Guidelines.

These documents establish policies and recommendations for use of standards in government organizations. These policies and recommendations are intended to promote interoperability of government information systems.

Further to this effort, Lanka Interoperability Framework is formulated to provide guidelines for different government information systems to standardize data architecture and data exchange.

This will enable the whole of government to operate as a single seamlessly integrated collaborated service, providing efficient and effective service through different service delivery channels – like face-to-face, phone, internet, mail, etc.

1.1 Scope of LIFe

The scope of the first version of Lanka Interoperability Framework (LIFe) is limited to “**Personal Data**”. This means, only *data element types* required to store personal details of a person is identified and standardized. The associated XML schema attempts to standardize the data exchange of Personal Data.

XML has been identified as the standard format to exchange data between government information systems.

The scope has been purposely restricted to provide a successful start in the right direction. Many countries have been successful in defining, developing and implementing Electronic Government Interoperability Framework (eGIF). eGIF of these countries are available for public and a few such countries are United Kingdom, New Zealand, Hong Kong and India (Andrapradesh).

1.2 Governance of LIFe

Lanka Interoperability Framework (LIFe) will be owned by the Ministry of Public Administration and Home Affairs and governed by Information and Communication Technology Agency.

Lanka Interoperability Framework Committee will be responsible for revising and authorizing the new versions. This LIFe Committee will comprise of :

Secretary to Ministry of Public Administration and Home Affairs (Chairman)

Programme Director of Re-Engineering Government, ICTA (Secretary)

Members:

Director, Department of Elections

Director General, Department of Census and Statistics

Commissioner, Registration of Persons Department

Director, Department of Pensions

Deputy Controller (IT), Department of Immigration and Emigration

Assistant Commissioner, Department of Examinations

Commissioner, Department of Motor Traffic

Deputy Director (IT), Central Bank of Sri Lanka

Commissioner General, Department of Labour

Deputy Director (Statistics), Registrar General's Department

Registrar General, Registrar General's Department

Department of Police

1.3 LIFe Roadmap

Lanka Interoperability Framework needs to evolve to cater to much larger domains of government sector. Government domain specific data exchange standards have to be incorporated into LIFe to enable comprehensive coverage of information exchange needs of government information systems. Examples of such domains include Health, Education, Security and Armed Forces, Geographic Spatial Data, Banking and Financial, Treasury, Immigration and Emigration, etc.

A detail roadmap for LIFe will be released and updated versions will be available at www.icta.lk/LIFe

1.4 Comments

All comments regarding the Lanka Interoperability Framework should be addressed to ;
life@icta.lk

2 What is LIFe ?

Lanka Interoperability Framework (LIFe) is the recommended data architecture and data interoperability standards for the Government of Sri Lanka.

2.1 Data Architecture

Definition 1: The overall software configuration and data linkage supporting a particular application

[Global Environmental Management Initiative (GEMI); One Thomas Circle, NW, Tenth Floor, Washington, DC 20005, USA,

<http://www.hsewebdepot.org/imstool/GEMI.nsf/WEBDocs/Glossary>]

Definition 2: The framework for organizing the planning and implementation of data resources. The set of data, processes, and technologies that an enterprise has selected for the creation and operation of information systems

[California State University Monterey Bay, 100 Campus Center, Seaside, CA, USA, <http://it.csUMB.edu/departments/data/glossary.html>]

Definition 3: The component of the data resource framework that contains all activities, and the products of those activities, related to the identification, naming, definition, structuring, quality, and documentation of the data resource for an organization.

[MicroStrategy, Inc., 1861 International Drive, McLean, Virginia 22102, USA http://www.microstrategy.com/News/Glossary/Letter_d.htm]

As explained earlier, the scope for the data architecture is to identify and standardize *data element types* that will be required to represent Personal Data of a person.

It is important to understand the difference between data elements and data element types.

Data Elements required to represent a person may include first name, last name, date of birth, residential address, correspondence address, etc.

Data Element Types are simple or complex data types required defining the standard data formats that will be used by Data Elements. For example Date Data Element Type format may be standardized as YYYY/MM/DD. Now this Date Data Element Type could be used by different Data Elements which are of date type such as date of birth, date of application, etc.

It is not mandated ALL the element types listed in this document MUST be used in government information systems. But it is recommended that all government systems move towards standardizing their data architecture to accommodate LIFe recommendations.

2.2 Interoperability

Definition: The ability of two or more systems or components to exchange information and to use the information that has been exchanged.

[Institute of Electrical and Electronics Engineers. IEEE Standard Computer Dictionary: A Compilation of IEEE Standard Computer Glossaries. New York, NY: 1990, <http://standards.ieee.org/catalog/dict.html>]

Interoperability enables different information systems to communicate with each other to exchange data and information in a consistent and standard way to achieve collaborative business integration.

LIFe will enable the whole of government to operate as a single seamlessly integrated collaborated service, providing efficient and effective service through different service delivery channels – like face-to-face, phone, internet, mail, etc.

2.3 Advantages of LIFe

1. Adoption of standard data architecture
2. Adoption of common metadata specification
3. Adoption of XML and XML schema for interoperability
4. Consistent and standard data representation, exchange and processing
5. Remove inconsistencies of data formats in government information systems

3 LIFE Data Architecture

The data architecture for Personal Details will cover the following:

1. National Identity Card Number
2. Title
3. Name
4. Gender
5. Civil Status
6. Religion
7. Ethnicity
8. Preferred Language
9. Citizenship
10. Address
11. Contact Details
12. Date
13. Date of Birth
14. Place of Birth
15. Date of Death

4 LIFE Meta Data

4.1 National Identity Card Number

Label	Description
Name	National_ID_Number
Definition	<p>Sri Lankan National Identity Card Number.</p> <p>Presently National Identity Card is issued to a person above 16 years of age. NID number is a unique number used to uniquely identify a person (above 16 years).</p> <p>In future, the National Identity Number will be issued at birth to everyone. Therefore every citizen of Sri Lanka will have a unique National ID number.</p>
Format	NNNNNNNNNN
Example	0712303441
Validation	<p>Length has to be 10 characters.</p> <p>Only numeric values can be entered.</p> <p>No alphabetical characters or any other special characters allowed including blank spaces.</p> <p><u>Optional Validations</u></p> <p>Validation to check the validity of the last digit which is the Check Digit.</p> <p>Validation to check the validity of the Age and the first 2 digits of the NID number.</p>
Values	-
Default	-
Comments	<p><u>Suggested NID representation</u></p> <p>N - Century</p> <p>0 for births in 20th century (January 1st, 1901 TO December 31st, 2000)</p> <p>1 for births in 21st century (January 1st, 2001 TO December 31st, 2100)</p> <p>2 for births in 22nd century (January 1st, 2101 TO December 31st, 2200)</p> <p>3 for births in 23rd century (January 1st, 2201 TO December 31st, 2300)</p> <p>5 for births in 20th century and the number of births for a day are more than 999</p> <p>6 for births in 21st century and the number of births for a day are more than 999</p> <p>7 for births in 22nd century and the number of births for a day are more than 999</p> <p>8 for births in 23rd century and the number of births for a day are</p>

	more than 999
	NN - Year of birth
	NNN - Birth day of the year. Birth date as the day of the year. For males 1-500 (Birth day of year) For females 501 – 999 (Birth day of year + 500)
	NNN - Number of birth
	N - Check digit
Date	October 2005
Version	V0.9

4.2 Title

Label	Description													
Name	Title													
Definition	<p>Title of a person. The following numeric codes will be used to represent the title :</p> <table border="1"> <tr><td>1 - Mr.</td></tr> <tr><td>2 - Miss.</td></tr> <tr><td>3 - Mrs.</td></tr> <tr><td>4 - Ms.</td></tr> <tr><td>5 – Most Venerable</td></tr> <tr><td>6 – Venerable</td></tr> <tr><td>7 - Revered Priest</td></tr> <tr><td>8 - Revered Swamy</td></tr> <tr><td>9 - Most Rev.</td></tr> <tr><td>10 - Rev.</td></tr> <tr><td>11 – Ash-Shaikh</td></tr> <tr><td>12 – Mawlavi</td></tr> <tr><td>0 – Other</td></tr> </table>	1 - Mr.	2 - Miss.	3 - Mrs.	4 - Ms.	5 – Most Venerable	6 – Venerable	7 - Revered Priest	8 - Revered Swamy	9 - Most Rev.	10 - Rev.	11 – Ash-Shaikh	12 – Mawlavi	0 – Other
1 - Mr.														
2 - Miss.														
3 - Mrs.														
4 - Ms.														
5 – Most Venerable														
6 – Venerable														
7 - Revered Priest														
8 - Revered Swamy														
9 - Most Rev.														
10 - Rev.														
11 – Ash-Shaikh														
12 – Mawlavi														
0 – Other														
Format	2 Numeric character													
Validation	Cannot be blank. Max length is 2.													
Values	<table border="1"> <tr><td>1 - Mr.</td></tr> <tr><td>2 - Miss.</td></tr> <tr><td>3 - Mrs.</td></tr> <tr><td>4 - Ms.</td></tr> <tr><td>5 – Most Venerable</td></tr> <tr><td>6 – Venerable</td></tr> <tr><td>7 - Revered Priest</td></tr> <tr><td>8 - Revered Swamy</td></tr> <tr><td>9 - Most Rev.</td></tr> <tr><td>10 - Rev.</td></tr> <tr><td>11 – Ash-Shaikh</td></tr> <tr><td>12 – Mawlavi</td></tr> <tr><td>0 – Other</td></tr> </table>	1 - Mr.	2 - Miss.	3 - Mrs.	4 - Ms.	5 – Most Venerable	6 – Venerable	7 - Revered Priest	8 - Revered Swamy	9 - Most Rev.	10 - Rev.	11 – Ash-Shaikh	12 – Mawlavi	0 – Other
1 - Mr.														
2 - Miss.														
3 - Mrs.														
4 - Ms.														
5 – Most Venerable														
6 – Venerable														
7 - Revered Priest														
8 - Revered Swamy														
9 - Most Rev.														
10 - Rev.														
11 – Ash-Shaikh														
12 – Mawlavi														
0 – Other														
Default	-													
Comments	If the value is “0” (zero), then the Title must be entered by the user.													
Date	October 2005													
Version	V0.9													

4.3 Name

4.3.1 Initials

Label	Description
Name	Initials
Definition	Initials of a person.
Format	30 Alpha-Numeric characters
Example	For example, if a person's full name is Warnakulasuriyalage Kumarasena Dhanapala Cyril Nanayakkara The initials will be W.K.D.C.
Validation	Length is less than or equal to 30 characters. Can only have alphabetical characters and dots/full stops.
Values	-
Default	-
Comments	Family name, first name, middle name will be included as initials <u>except</u> the last name. Initials should be written each initial followed by a period/full stop and no space between the period/full stop and the next initial.
Date	October 2005
Version	V0.9

4.3.2 Names Of Initials

Label	Description
Name	Names Of Initials
Definition	Names denoted by the initials.
Format	120 Alphabetical Characters
Example	For example, if a person's full name is Warnakulasuriyalage Kumarasena Dhanapala Cyril Nanayakkara. The initials will be W.K.D.C. The names denoted by initials will be Warnakulasuriyalage Kumarasena Dhanapala Cyril
Validation	Length is less than or equal to 120 characters Can only have alphabetical characters and spaces.
Values	-
Default	-
Comments	-
Date	October 2005
Version	V0.9

4.3.3 Last Name

Label	Description
Name	Last Name
Definition	The last name or the name that the person wishes to be addressed formally.
Format	50 Alphabetical Characters
Example	If a person's full name is Warnakulasuriyalage Kumarasena Dhanapala Cyril Nanayakkara. The Last name will be Nanayakkara
Validation	Length is less than or equal to 50 characters Can only have alphabetical characters.
Values	--
Default	-
Comments	-
Date	October 2005
Version	V0.9

4.4 Gender

Label	Description			
Name	Gender			
Definition	<p>Gender or sex of a person. The following codes will be used to represent the gender :</p> <table border="1"> <tr> <td>M - Male</td> </tr> <tr> <td>F - Female</td> </tr> <tr> <td>U - Unknown</td> </tr> </table>	M - Male	F - Female	U - Unknown
M - Male				
F - Female				
U - Unknown				
Format	2 Numeric character.			
Validation	<p>Cannot be blank. Max length is 2.</p>			
Values	<table border="1"> <tr> <td>M – Male</td> </tr> <tr> <td>F – Female</td> </tr> <tr> <td>U – Unknown</td> </tr> </table>	M – Male	F – Female	U – Unknown
M – Male				
F – Female				
U – Unknown				
Default	-			
Comments	-			
Date	October 2005			
Version	V0.9			

4.5 Civil Status

Label	Description							
Name	Civil_Status							
Definition	<p>Civil status of a person. The following codes will be used to represent the civil status :</p> <table border="1"> <tr><td>1 - Single</td></tr> <tr><td>2 - Married Registered</td></tr> <tr><td>3 - Married Customary</td></tr> <tr><td>4 - Divorced</td></tr> <tr><td>5 - Separated</td></tr> <tr><td>6 - Widowed</td></tr> <tr><td>0 - Other</td></tr> </table>	1 - Single	2 - Married Registered	3 - Married Customary	4 - Divorced	5 - Separated	6 - Widowed	0 - Other
1 - Single								
2 - Married Registered								
3 - Married Customary								
4 - Divorced								
5 - Separated								
6 - Widowed								
0 - Other								
Format	2 Numeric character							
Validation	Cannot be blank. Max length is 2.							
Values	<table border="1"> <tr><td>1 - Single</td></tr> <tr><td>2 - Married Registered</td></tr> <tr><td>3 - Married Customary</td></tr> <tr><td>4 - Divorced</td></tr> <tr><td>5 - Separated</td></tr> <tr><td>6 - Widowed</td></tr> <tr><td>0 - Other</td></tr> </table>	1 - Single	2 - Married Registered	3 - Married Customary	4 - Divorced	5 - Separated	6 - Widowed	0 - Other
1 - Single								
2 - Married Registered								
3 - Married Customary								
4 - Divorced								
5 - Separated								
6 - Widowed								
0 - Other								
Default	-							
Comments	If the value is "0" (zero), then the civil status must be entered by the user.							
Date	October 2005							
Version	V0.9							

4.6 Religion

Label	Description							
Name	Religion							
Definition	Religion of a person. The following codes will be used to represent the religion : <table border="1" data-bbox="411 571 818 815"> <tr><td>1 - Buddhist</td></tr> <tr><td>2 - Hindu</td></tr> <tr><td>3 - Islam</td></tr> <tr><td>4 - Catholic</td></tr> <tr><td>5 - Other Christian</td></tr> <tr><td>6 - No religion</td></tr> <tr><td>0 - Other religions</td></tr> </table>	1 - Buddhist	2 - Hindu	3 - Islam	4 - Catholic	5 - Other Christian	6 - No religion	0 - Other religions
1 - Buddhist								
2 - Hindu								
3 - Islam								
4 - Catholic								
5 - Other Christian								
6 - No religion								
0 - Other religions								
Format	2 Numeric character							
Validation	Cannot be blank. Max length is 2.							
Values	<table border="1" data-bbox="411 925 818 1169"> <tr><td>1 - Buddhist</td></tr> <tr><td>2 - Hindu</td></tr> <tr><td>3 - Islam</td></tr> <tr><td>4 - Catholic</td></tr> <tr><td>5 - Other Christian</td></tr> <tr><td>6 - No religion</td></tr> <tr><td>0 - Other religions</td></tr> </table>	1 - Buddhist	2 - Hindu	3 - Islam	4 - Catholic	5 - Other Christian	6 - No religion	0 - Other religions
1 - Buddhist								
2 - Hindu								
3 - Islam								
4 - Catholic								
5 - Other Christian								
6 - No religion								
0 - Other religions								
Default	-							
Comments	If the value is "0" (zero), then the religion must be entered by the user.							
Date	October 2005							
Version	V0.9							

4.7 Ethnicity

Label	Description							
Name	Ethnicity							
Definition	Ethnicity of a person. The following codes will be used to represent the Ethnicity : <table border="1" data-bbox="411 607 818 853"> <tr><td>1- Sinhala</td></tr> <tr><td>2- Sri Lankan Tamil</td></tr> <tr><td>3 - Indian Tamil</td></tr> <tr><td>4 – Sri Lankan Moor</td></tr> <tr><td>5 - Burgher</td></tr> <tr><td>6 - Malay</td></tr> <tr><td>0 - Other</td></tr> </table>	1- Sinhala	2- Sri Lankan Tamil	3 - Indian Tamil	4 – Sri Lankan Moor	5 - Burgher	6 - Malay	0 - Other
1- Sinhala								
2- Sri Lankan Tamil								
3 - Indian Tamil								
4 – Sri Lankan Moor								
5 - Burgher								
6 - Malay								
0 - Other								
Format	2 Numeric character							
Validation	Cannot be blank. Max length is 2.							
Values	<table border="1" data-bbox="411 965 818 1205"> <tr><td>1- Sinhala</td></tr> <tr><td>2- Sri Lankan Tamil</td></tr> <tr><td>3 - Indian Tamil</td></tr> <tr><td>4 – Sri Lankan Moor</td></tr> <tr><td>5 – Burgher</td></tr> <tr><td>6 – Malay</td></tr> <tr><td>0 – Other</td></tr> </table>	1- Sinhala	2- Sri Lankan Tamil	3 - Indian Tamil	4 – Sri Lankan Moor	5 – Burgher	6 – Malay	0 – Other
1- Sinhala								
2- Sri Lankan Tamil								
3 - Indian Tamil								
4 – Sri Lankan Moor								
5 – Burgher								
6 – Malay								
0 – Other								
Default								
Comments	If the value is “0” (zero), then the Ethnicity must be entered by the user.							
Date	October 2005							
Version	V0.9							

4.8 Preferred Language

Label	Description				
Name	Preferred Language				
Definition	Preferred language to be used : <table border="1"> <tr> <td>1- Sinhala</td> </tr> <tr> <td>2- Tamil</td> </tr> <tr> <td>3 - English</td> </tr> <tr> <td>0 - Other</td> </tr> </table>	1- Sinhala	2- Tamil	3 - English	0 - Other
1- Sinhala					
2- Tamil					
3 - English					
0 - Other					
Format	2 Numeric character				
Validation	Cannot be blank. Max length is 2.				
Values	<table border="1"> <tr> <td>1- Sinhala</td> </tr> <tr> <td>2- Tamil</td> </tr> <tr> <td>3 - English</td> </tr> <tr> <td>0 - Other</td> </tr> </table>	1- Sinhala	2- Tamil	3 - English	0 - Other
1- Sinhala					
2- Tamil					
3 - English					
0 - Other					
Default	-				
Comments	If the value is “0” (zero), then the Preferred Language must be entered by the user.				
Date	October 2005				
Version	V0.9				

4.9 Citizenship

This is the country of citizenship of a person.

The Country Code element described under the Address should be used here.

4.10 Address

Address data element type comprises of the following data elements :

Address Type
 Building number
 Floor number
 Block number
 Building name
 Street name
 Village name
 City
 Postal code
 Location code
 Country

4.10.1 Address Type

Label	Description				
Name	Address_Type				
Definition	Indicates what type of address : <table border="1"> <tr> <td>1- Official</td> </tr> <tr> <td>2- Residence</td> </tr> <tr> <td>3 – Permanent</td> </tr> <tr> <td>0 – Other</td> </tr> </table>	1- Official	2- Residence	3 – Permanent	0 – Other
1- Official					
2- Residence					
3 – Permanent					
0 – Other					
Format	2 Numeric characters				
Validation	Cannot be blank. Max length is 2.				
Values	<table border="1"> <tr> <td>1- Official</td> </tr> <tr> <td>2- Residence</td> </tr> <tr> <td>3 – Permanent</td> </tr> <tr> <td>0 – Other</td> </tr> </table>	1- Official	2- Residence	3 – Permanent	0 – Other
1- Official					
2- Residence					
3 – Permanent					
0 – Other					
Default	-				
Comments	-				
Date	March 2006				
Version	V0.9.1				

4.10.2 Building Number

Label	Description
Name	Building Number
Definition	Building/house/apartment number.
Format	15 Alpha-Numeric characters
Example	1234/23A 99/7 12-343-A
Validation	Optional. Alpha-Numeric characters and special characters such as “/, \”
Values	-
Default	-
Comments	There are some addresses without house/building number, and is referred only by a house name.
Date	October 2005
Version	V0.9

4.10.3 Floor Number

Label	Description
Name	Floor Number
Definition	If in an apartments/flats, the floor number (if required).
Format	3 Numeric Characters
Example	5 3 2
Validation	Optional.

	Only Alpha-Numeric characters
Values	-
Default	-
Comments	For apartment complex/housing complex/flats, the floor number may be required in the address.
Date	October 2005
Version	V0.9

4.10.4 Block Number

Label	Description
Name	Block_Number
Definition	If in an apartment complex/housing complex/flats, the block number (if required).
Format	5 Alpha-Numeric
Example	A 12A
Validation	Optional. Alpha-Numeric characters and special characters such as “/, \”
Values	-
Default	-
Comments	For apartment complex/housing complex/flats, the block number may be required in the address.
Date	October 2005
Version	V0.9

4.10.5 Building Name

Label	Description
Name	Building Name
Definition	This may be estate name, house name, business name, apartment complex names, etc.
Format	30 Alphabetical Characters
Example	Haputale Estate Vinusha Gedara Small Enterprise (Pvt) Ltd. Luxury Houses Apartment Complex
Validation	Alphabetical characters and spaces. Following special characters could be allowed : Dash (-) At sign (@) Period/Fullstop (.) Underscore (_) Space Brackets (()) Square brackets ([])
Values	-
Default	-
Comments	-
Date	October 2005
Version	V0.9

4.10.6 Street Name

Label	Description
Name	Street Name 1
Definition	Name of the street/lane/road
Format	35 Alphabetical Characters
Example	Sir Baron Jayatileke Mawatha Ananda Coomaraswamy Mawatha
Validation	Alphabetical characters only
Values	-
Default	-
Comments	If there is no street name, the City or Village name cannot be blank.
Date	October 2005
Version	V0.9

Label	Description
Name	Street_Name_2
Definition	Name of the street/lane/road
Format	35 Alphabetical Characters
Example	Sir Baron Jayatileke Mawatha Ananda Coomaraswamy Mawatha
Validation	Alphabetical characters only
Values	-
Default	-
Comments	If there is no street name, the City or Village name cannot be blank.
Date	March 2006
Version	V0.9.1

4.10.7 Village Name

Label	Description
Name	Village_Name
Definition	Name of the village
Format	25 Alphabetical Characters
Example	Paniyanduwa Karadiyanaru
Validation	Alphabetical characters only
Values	-
Default	-
Comments	If there is no street name, the City or Village name cannot be blank.
Date	October 2005
Version	V0.9

4.10.8 City

Label	Description
Name	City
Definition	Name of the city
Format	25 Alphabetical Characters
Example	Akmeemana Colombo Akkaraipattu
Validation	Alphabetical characters only

Values	-
Default	-
Comments	If there is no street name, the City or Village name must be given. For Colombo, when there is a code, like Colombo 03, the code will not be necessary here as this could be captured in the Postal Code as 00300.
Date	October 2005
Version	V0.9

4.10.9 Postal Code

Label	Description
Name	Postal_Code
Definition	Postal code for the region
Format	5 Alpha-numeric characters
Example	51400
Validation	Alpha-numeric characters only
Values	The list of Post codes must be obtained from the Postal Department.
Default	-
Comments	-
Date	October 2005
Version	V0.9

4.10.10 Location Code

Label	Description
Name	Location_Code
Definition	Code allocated for the Grama Niladari administration region N - Province code N - District code NN - Divisional Secretariat code NNN - Grama Niladari code
Format	9 Alpha-numeric characters
Example	Western Province 1 Colombo District 1 Colombo DS 03 GN code for Sedawatta 010 Location code 11-03-010 Western Province 1 Gampaha District 2 Negambo DS 03 GN code for Doowa 115 Location code 12-03-115
Validation	Alpha-numeric characters only
Values	The list of Location Codes must be obtained from the Ministry of Public Administration and Home Affairs.
Default	-
Comments	-
Date	October 2005
Version	V0.9

4.10.11 Country Code

Label	Description
Name	Country Code
Definition	The international standard country code.
Format	2 Alphabetic characters
Example	Sri Lanka → LK India → IN
Validation	Length should be 2 characters. Alphabetic characters only
Values	The list of Location Codes must be obtained from the Ministry of Public Administration and Home Affairs.
Default	-
Comments	<p><u>Country names list by ISO (ISO 3166 Code List)</u></p> <p>This list states the country names (official short names in English) in alphabetical order as given in ISO 3166-1 and the corresponding ISO 3166-1-alpha-2 code elements.</p> <p>This list is updated whenever a change to the official code list in ISO 3166-1 is effected by the ISO 3166/MA.</p> <p>It lists 240 official short names and code elements.</p> <p>(http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/list-en1.html)</p>
Date	October 2005
Version	V0.9

4.11 Contact Details

Contact details data element type will have the following data elements :

Contact information type

Phone number

Phone extension number

Fax number

Email

Mobile phone

URL

4.11.1 Contact Information Type

Label	Description				
Name	Contact_Information_Type				
Definition	Indicates what type of contact details : <table border="1"> <tr> <td>1- Official</td> </tr> <tr> <td>2- Residence</td> </tr> <tr> <td>3 – Permanent</td> </tr> <tr> <td>0 – Other</td> </tr> </table>	1- Official	2- Residence	3 – Permanent	0 – Other
1- Official					
2- Residence					
3 – Permanent					
0 – Other					
Format	2 Numeric characters				
Example	Cannot be blank. Max length is 2.				
Validation					
Values	<table border="1"> <tr> <td>1- Official</td> </tr> <tr> <td>2- Residence</td> </tr> <tr> <td>3 – Permanent</td> </tr> <tr> <td>0 – Other</td> </tr> </table>	1- Official	2- Residence	3 – Permanent	0 – Other
1- Official					
2- Residence					
3 – Permanent					
0 – Other					
Default	-				
Comments	-				
Date	March 2006				
Version	V0.9.1				

4.11.2 Phone Number

Telephone number as for the E.164: The international public telecommunication numbering plan.

(<http://www.numberingplans.com/index.php?goto=guide&topic=E164>)

For Sri Lankan phone numbering plan refer

http://www.numberingplans.com/?page=plans&sub=phonenr&alpha_2_input=LK¤t_page=1

(October 2005)

4.11.2.1 Phone Country Code

Label	Description
Name	Phone_Country_Code
Definition	Country code of the phone number
Format	3 Alpha-numeric characters
Example	USA → 1 Singapore → 65 UK → 44- Sri Lanka → 94
Validation	Could be blank for Sri Lankan phone numbers.
Values	-
Default	For Sri Lankan phone numbers the default value will be “94” (if required)
Comments	-
Date	October 2005
Version	V0.9

4.11.2.2 Phone Area Code

Label	Description															
Name	Phone_Area_Code															
Definition	Area code of phone number															
Format	3 Alpha-numeric characters															
Example	<table border="1"> <thead> <tr> <th>International number or range</th> <th>Usage of international number or range</th> <th>Additional network information</th> </tr> </thead> <tbody> <tr> <td>+94 25 XXXXXX</td> <td>geographic; Anuradhapura</td> <td>SLT</td> </tr> <tr> <td>+94 25 22XXXX</td> <td>geographic; Anuradhapura</td> <td>SLT</td> </tr> <tr> <td>+94 25 458XXXX</td> <td>geographic; Anuradhapura</td> <td>Suntel Ltd.</td> </tr> <tr> <td>+94 25 581XXXX</td> <td>geographic; Anuradhapura</td> <td>Lanka Bell (Pvt) Ltd.</td> </tr> </tbody> </table>	International number or range	Usage of international number or range	Additional network information	+94 25 XXXXXX	geographic; Anuradhapura	SLT	+94 25 22XXXX	geographic; Anuradhapura	SLT	+94 25 458XXXX	geographic; Anuradhapura	Suntel Ltd.	+94 25 581XXXX	geographic; Anuradhapura	Lanka Bell (Pvt) Ltd.
International number or range	Usage of international number or range	Additional network information														
+94 25 XXXXXX	geographic; Anuradhapura	SLT														
+94 25 22XXXX	geographic; Anuradhapura	SLT														
+94 25 458XXXX	geographic; Anuradhapura	Suntel Ltd.														
+94 25 581XXXX	geographic; Anuradhapura	Lanka Bell (Pvt) Ltd.														
Validation	-															
Values	-															
Default	-															
Comments	<p>Though in Sri Lanka the area code is 2 digits, to accommodate international standards 3 digits are allocated.</p> <p>The code could be validated against the city field of address. It is upto individual system to carry out this validation if required.</p>															
Date	October 2005															
Version	V0.9															

4.11.2.3 Phone number

Label	Description		
Name	Phone_Number		
Definition	Phone number		
Format	7 Alpha-numeric characters		
Example	International number or range	Usage of international number or range	Additional network information
	+94 25 XXXXXXX	geographic; Anuradhapura	SLT
	+94 25 22XXXXX	geographic; Anuradhapura	SLT
	+94 25 458XXXX	geographic; Anuradhapura	Suntel Ltd.
	+94 25 581XXXX	geographic; Anuradhapura	Lanka Bell (Pvt) Ltd.
Validation	Length must be 7 characters		
Values	-		
Default	For Sri Lankan phone numbers the default value will be “94” (if required)		
Comments	-		
Date	October 2005		
Version	V0.9		

4.11.3 Phone Extension Number

Label	Description
Name	Phone_Extension_Number
Definition	Phone extension number (if applicable).
Format	5 Numeric characters
Example	123 64
Validation	Optional
Values	-
Default	-
Comments	-
Date	October 2005
Version	V0.9

4.11.4 Fax Number

This can use the same format as the Phone number.

4.11.5 Mobile Phone Number

This can use the same format as the Phone number.

4.11.6 Email

Label	Description
Name	Email
Definition	Email address
Format	60 Alpha-numeric characters
Example	a.d.s.sampath@irrigatrion.gov.lk
Validation	Length must less than or equal to 60 characters. Address must have @ symbol.
Values	-
Default	-
Comments	-
Date	October 2005
Version	V0.9

4.11.7 URL Address

Label	Description
Name	URL address
Definition	URL address
Format	50 Alpha-numeric characters
Example	http://www.myownwebaddress.com https://www.SecureBankingServices.lk http://Somewebsite.lk
Validation	Length must be less than or equal to 50 characters
Values	-
Default	-
Comments	-
Date	October 2005
Version	V0.9

4.12 Date

Label	Description
Name	Date
Definition	Date in ISO date format (ISO 8601)
Format	YYYY-MM-DD
Example	05 th June 2005 → 2005-06-05
Validation	Must be in ISO date format
Values	-
Default	-
Comments	-
Date	October 2005
Version	V0.9

4.13 Date of Birth

This can be of Date type.

4.14 Place of Birth

Place of Birth data element type will have the following data element types :

City

Country Code

These two data element types are defined under Address data element type.

4.15 Date of Death

The Date data element type could be used for this.