Data Standard of LISF (Land Information and Services Framework)

Cabinet division | Ministry of Land | a2i, Prime Minister's Office

Technical assistance by:

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How to use this document

Getting around the document

We recommend that readers use this document on-screen as much as possible. There are several reasons for this:

- ✓ The material is organized in several sections. There are definitions for data items, for aggregations and for domains (explained below). While this is a reasonable way of organizing the material, it does mean that sometimes readers will need to refer to several parts of the document at the same time;
- ✓ To help with this, numerous links have been built in to simplify navigation around the document; and
- ✓ At c.74 pages, readers will want to consider the environment before printing.

Where to find data items

The data item definitions are organized in sections for:

- Location
- Survey
- BRS Khatian
- Deeds
- Office
- User
- Law
- Tax
- Service
- System

Service-Method relationship (for example, service registration)

A full index of all the items is available at Data Standards Index

Classes of definition

Each item definition is classified as one of the following:

- **UNIVERSAL - MEANING THAT THE DEFINITION AND USE OF THE DATA ITEM COVERS ALL SECTORS**
- **COMMON - I.E. ACROSS SEVERAL SECTORS**
- **SECTOR SPECIFIC - I.E. ONLY RELEVANT TO VARIOUS LAND RELATED SERVICE PROVIDER SECTOR**

This classification is significant for anyone using these standards.

Items whose definitions are *Universal* have usually been direct copies of central data standards, such as the Government Data Standards Catalogue. Users are advised to make sure they are aware of up to date developments on cross-government standards.

Definitions classed as *Common* have been developed by a working group that consists of the LISF and partners in the delivery of basic land related service, and also by public sector organizations with a wider remit.

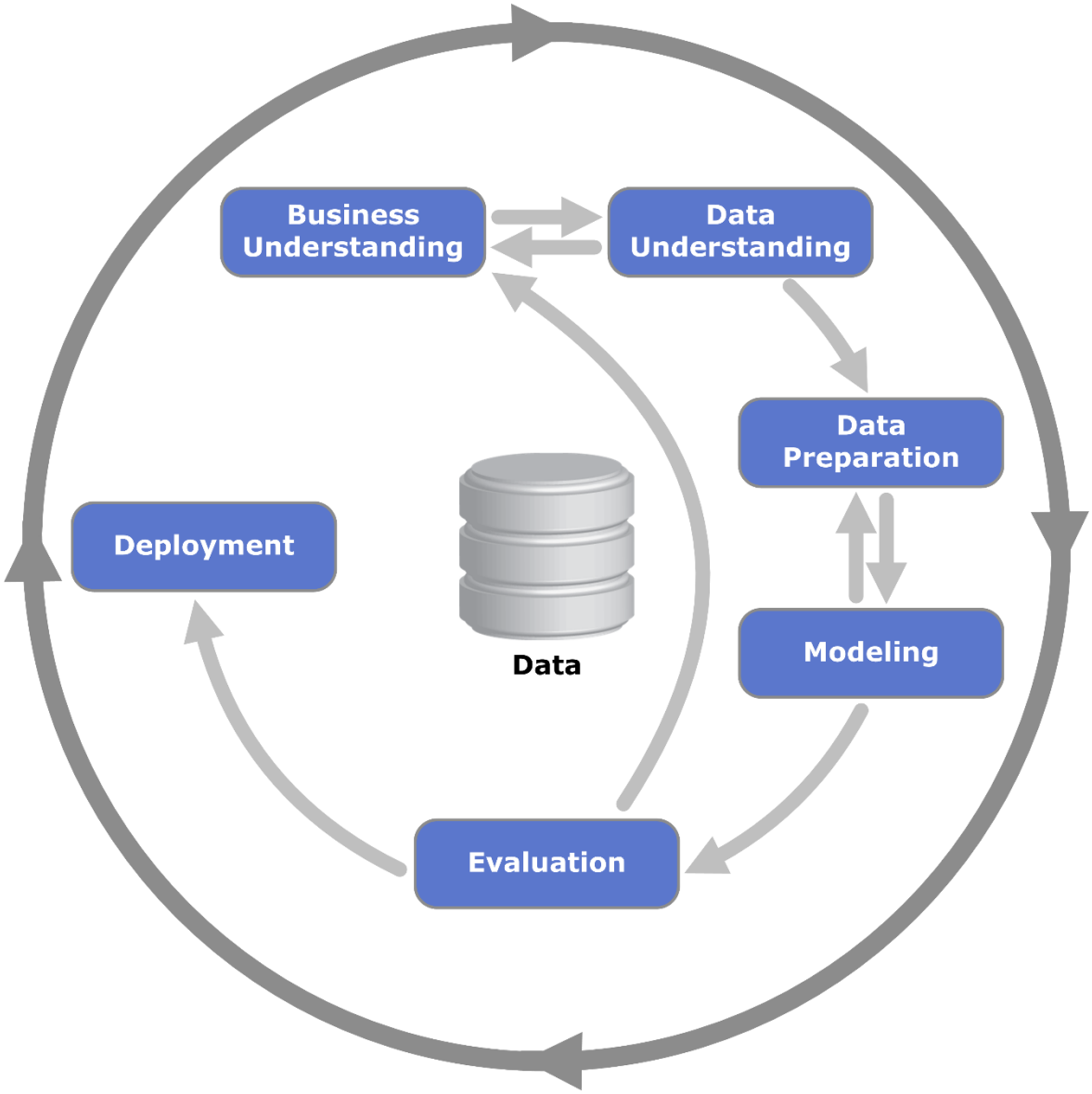
Definitions classed as *Sector specific* are for items that are relevant only within a single sector. They can be regarded as definitive, without further reference.

Aggregations and domains

For clarity, data item definitions are shown separately from definitions for aggregations or derived data.

In keeping with best practice, code sets and common types of data such as ID, dates are defined in separate domains, which are referred to from the main item definitions. Domain definitions and an explanation of domains as an implementation of ISO 11179 is provided at Annex C.

Standard Model for Preparing/Identifying Data Element



Information provided on each standard

Each data item, aggregation or domain is described in tables that have the following row headings:

For each Data item, the following is recorded:	
Ref Number	A reference number assigned by LISF
Data Item Name	The name of the data item, aggregation or domain
Class	Universal (U) / Common (C) / Sector specific (S) (see above)
Status	Indicates the status of the definition, e.g. Proposed (P), Draft (D), Under Review (U) and Approved (A).
Description	The description for the item.
Type and Format	For Text fields with specific formats, A and 9 represent alphanumeric and numeric characters respectively. Lengths are sometimes shown using brackets, e.g. A(7) = seven alphanumeric characters. For numeric fields, the decimal number shown using brackets for max length. Some formats use the (-) numbers and (+) number. That's denote range for maximum capability of that item storage.
Code Set/ Valid Values	Most coded items are defined as separate domains. Where a coded item has only a few values, and where its format is not shared by any other items, the code set is shown as part of the main item definition.
Item Level Validation	Validation guidelines are shown where they can confidently be applied in every instance of a standard's use, e.g. End Date cannot be earlier than its corresponding Start Date.
Other Sectors	For items classed as Common, an assessment of the extent of relevance to other sectors.
Collection Notes	Additional information that will be useful to designers of data collections.
Output/Presentation Notes	Additional information that provides a standard approach to displaying or presenting the data item.
History Notes	Additional information on whether systems or collections should seek to include historical values for the item as part of its specification.
Multiplicity Notes	Additional information on whether systems or collections should allow for multiple values per person for this item. In addition, for each Aggregation, the following is provided:
Algorithms	The algorithm(s) to be used.
Default Value	If applicable.
Source Description	Data Source office or service or any third party solution provider description.

1. Introduction

The purpose of these standards is to provide consistency in the definition, meaning and use of data about the Land Information System Framework and for Bangladesh Government. By providing standard definitions to those who commission, build, populate and analyze data systems, including collections and surveys, the quality of information about the Land Information System Framework will improve over time.

1.1 Overall Model

Within this standards document, definitions of individual data items are organized according to the following overview model:

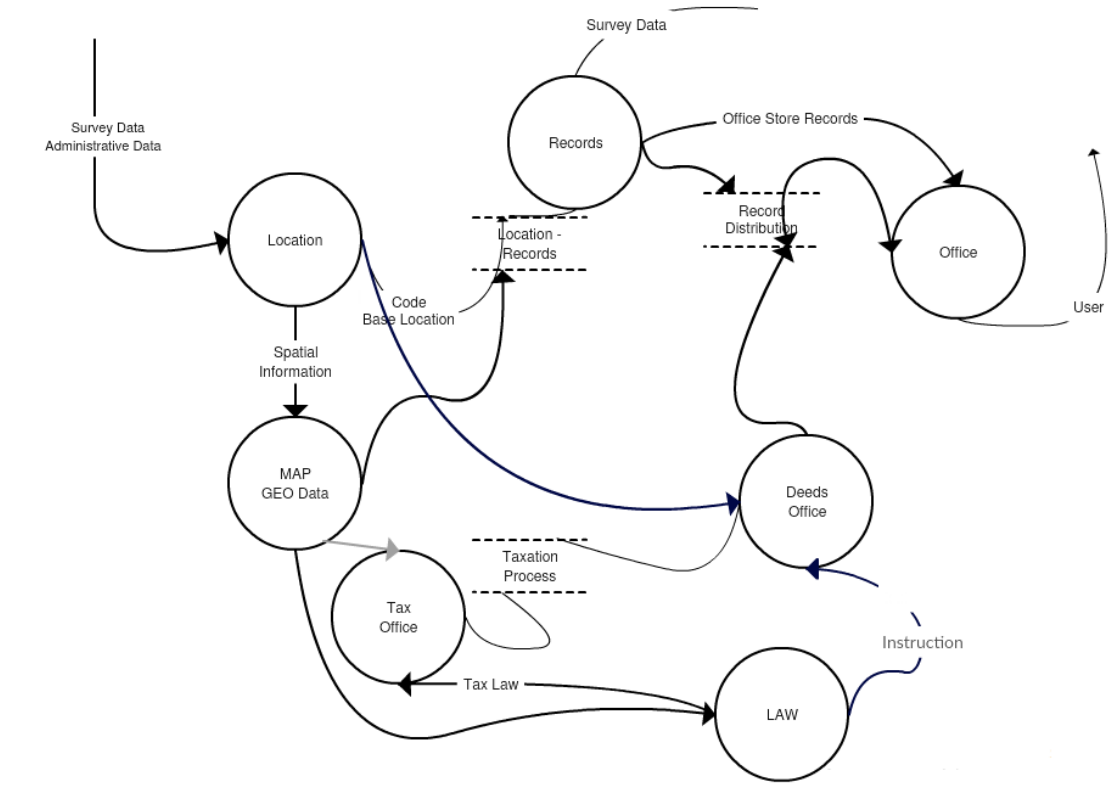


Figure 1: Overview Model (High-Level Entities)

This model is intentionally high-level. It is not intended to show a fully normalized view of all data or relationships within the standards, rather it provides a framework within which the definitions should be understood. Definitions exist within most of the above entities, although this version of the standards does not include any Qualification definitions (see page for details). In addition, for some key groupings of data, such as those relating to pay or contracts, a more detailed series of illustrative entity-relationship models is provided at Annex B.

Each item *definition* is classified as one of...

a) Universal
b) Common to several sectors
c) Sector specific

Item definitions are supplemented by value Domains. These specify common value-sets (code sets) or common underlying data types, such as dates.

The full definition of an item is therefore a composite of an item's entity context, its item definition and any related value domain.

1.2 Context and relationship to other standards

The Standards Working Group responsible for these definitions has sought to re-use existing standards, where these have been judged fit for purpose. For this reason, some of definitions already present in the Government various Data Standards Catalogue, such as citizen core data structure (CCDS) and the Common Basic Data Set are reproduced by E-Filing (User & Office) here unchanged.

A2I Note:

> The Data standards for LISF and BD Government are undergoing change at this time. A2I, Ministry of LAND, DGLR and other land related stakeholder are reviewing the catalogue of LISF Data Standards and consulting on proposals to refresh them. This may result in changes to khatian-related standards (owner, address, plot, area) and others.
>
> During the period of development of the Data Standards, and the subsequent consultation on them, A2I substantially revised its process for standards development and its definition of what a Business Data Standard should comprise. As a result, existing standards will undergo revision (this includes the ADD).
>
> The Technical Support Service to the A2I is therefore undertaking an urgent and rapid in-depth review of Data Standards in comparison to its Business Data Architecture and a due diligence review. This will ensure that when approved by A2I and other stakeholder the new standards meet all LAND related needs for the use of data. In particular, it will ensure that the needs of citizen & organizations to receive and provide services and also related employees and office will be met by the standards, as well as the needs of planners and policy makers. The intention of the review will be to build on and use the good work that has gone into these standards, proposing changes only where necessary and after consultation.

1.3 Standards Adoption

The process of implementing the standards will follow separate consultation. Once the standards have been approved by the A2I and all stakeholders will need to assess the impact on existing and planned systems, data collections and data interchanges.

The existence of a standard for an item (or items) means that wherever the data is used, it should conform to that definition. It does not specify which items are used in a particular context; each use must have proper business justification.

2. Scope

The scope of the LISF data standard's covered by these definitions encompasses Survey, Location, Khatian, Deeds, Tax, Law, User, Office and 3rd Party Land Services and Government Land Services.

This document defines the LISF Framework, with guidelines and processes, to help state enterprise lines of business and agencies establish Tier One enterprise data standards.

LISF Data standards describe objects, features, or items that are collected, automated, or affected by activities or the functions of organizations. In this respect, data need to be carefully managed and organized according to defined rules and protocols.

2.1 General Notes

- Data Protection: Organizations using these definitions are reminded that all personal data comes under the provision of the Right to Information Act, 2009. It is the responsibility of any organization/office acting as a Data Controller or Data Processor to determine that their use of the data is legitimate under the act and that their practices are appropriate. The existence of a definition for an item within these standards does not by itself constitute grounds for an organization to process such data with respect to any person.
- Character Sets. Some text items, such as a Owner/Person's Name, should support the full range of Unicode characters including accented characters and others. Details of the character sets that should be supported under these standards are shown at Annex A.
- Location and Change History: The present-day borders of Bangladesh took shape during the Partition of Bengal and the British India in 1947, when the region came to be known as East Pakistan, as a part of the newly formed state of Pakistan. In 1971 it earns its independence. During each period survey was done, and administrative area border was different. Besides it's riverine country and also one of the most densely populated countries in the world. So administrative area formation, boundary changes is inevitable.

  So the suggested standard is that these data are retained along with change history along with mapping new area formation also.
- Values 'not known'. The code sets within these standards do not always include a 'not known' category. The standards are designed to support a wide range of applications including both operational systems and data collections. In some cases, such as the design of some operational system, a 'not known' value would be inappropriate. It is permitted for systems or data collections to add this category to any of the code sets, provided that designers ensure that any systems or organizations with which they exchange data are also able to accept and interpret the data.
- Category lists, codes and hierarchies. Each category list domain specifies both the range of standard categories and a code to be used for each one. Most such domains are single lists of values.
- Data Handling and Transfer. Revised data handling procedures across government and government to other third party service provider. Much of the use that will be made of these standards will be in the design, preparation and operation of data sharing or data collection projects. It is essential, doing this work are aware of the data handling procedures.

2.2 Data Audit

Good data management requires ongoing data audit to monitor the use and continued effectiveness of existing data. LISF propose data or information audit process that involves

- Identifying the information needs of an organization/program and assigning a level of strategic importance to those needs,
- Identifying the resources and services currently provided to meet those needs,
- Mapping information flows within an organization (or program) and between an organization and its external environment, and
- Analyzing gaps, duplications, inefficiencies, and areas of over-provision that enable the identification of where changes are necessary.

The information audit examines the activities and tasks that occur in an organization and identifies the information resources that support them. Combining this with the assignment of a level of strategic significance to all tasks and activities enables the identification of the areas where strategically significant knowledge is being created. It also identifies those tasks that rely on knowledge sharing or transfer and those that rely on a high quality of knowledge.

Benefits of a data audit include:

- Awareness of data holdings
    - Promote capacity planning
    - Facilitate data sharing and reuse
    - Monitor data holdings and avoid data leaks
- Recognition of data management practices
    - Promote efficient use of resources and improved workflows
    - Increase ability to manage risks – data loss, inaccessibility, compliance
    - Enable the development/refinement of a data strategy

2.3 Data Quality

LISF will ensure Quality as applied to data has been defined as –fitness for use or potential for use. These principles are involved at all stages of the data management process, beginning with data collection and capture. A loss of data quality at any one of these stages reduces the applicability and uses to which the data can be adequately put. These include:

- Data capture and recording at the time of gathering
- Data manipulation prior to digitization (migration, modifying to new format, Unicode, etc...)
- Identification of the collection (specimen, observation) and its recording
- Digitization of the data
- Documentation of the data (capturing and recording the metadata), Data storage and archiving
- Data presentation and dissemination (paper and electronic publications, web-enabled databases, etc.), and using the data (analysis and manipulation).

All of these affect the final quality or ―fitness for use‖ of the data and apply to all aspects of the data.

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3 Data Standards

3.1 Data Items / Groups

LOCATION SECTION

Location ID

Ref Number	LF005	Data Item Name	Location ID
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	A unique identifier for an individual location unit, as allocated by the LISF Location identifying Service. At present (2016) more than 20 type of location identified, where each type consist many units whatever every unit assigned Unique Number.
Type & Format	Thirteen-digit number, with zero not allowed as the first character
Code Set/ Valid Values	n/a
Item Level Validation	1. First digit must not be 0/ zero 2. First 2 digit will be location identifier, such 10 mean division, 11 means district, 12 means upazila, 21 means province 3. Second 2 digit will be division/province serial number if location type is division/province 4. Third 2 digit will be district/Sarkar serial number 5. Fourth 2 digit will represent upazila/Thana/Pargana 6. Fifth 2 digit will represent municipality/city corporation/tehsils/taluk 7. Last 3 digit will represent Mouja/Village/Union/Ward
Collection Notes	See General Notes 1. Data Protection. Operational and data collection system of LISF should choose whether to hold LISF area ID Numbers for area unit. If this data is held for qualified new area unit only, clear guidance must be issued to avoid conflict being entered on the system. LISF should check as part of their verification processes for all relevant roles.
Output/Presentation Notes	None
History Notes	Reference Table tbl_location_change_history
Multiplicity Notes	From a system design perspective, an area unit can only have one unique Location ID Number
Table Name	Tbl_location_info, tbl_location_change_history
Source(s)	Bangladesh Bureau of Statistics (BBS) Department Of Land Records And Survey Survey Of Bangladesh | **বাংলাদেশ জরিপ অধিদপ্তর**
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DLRS Code

Ref Number	LF009	**Data Item Name**	dlrs_code
Class	Universal	**Status**	Approved by DLRS

Data Item Definition	
Description	A unique identifier for an individual location unit, as allocated by the Department Of Land Records And Survey (DLRS)
Type & Format	Nine-digit number.
Code Set/ Valid Values	n/a
Item Level Validation	1. First 2 digit will be represent division serial number 2. Second 2 digit will be represent district serial number 3. Third 2 digit will represent upazila serial number. 4. Last 3 digit will represent Mouja serial number. 5. If it's only division remaining number will be zero, same for district or upazila markup
Collection Notes	See General Notes 1. Data Protection.
Output/Presentation Notes	None
History Notes	None
Multiplicity Notes	From a system design perspective, an area unit can only have one unique Number
Table Name	Tbl_location_info, tbl_location_change_history
Source(s)	Department Of Land Records And Survey
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BBS Code

Ref Number	LF010	**Data Item Name**	bbs_code
Class	Universal	**Status**	Approved by BBS

Data Item Definition	
Description	A unique identifier for an individual location unit, as allocated by Bangladesh Bureau of Statistics (BBS)
Type & Format	Fifteen digit number, such : 00-00-00-00-000
Code Set/ Valid Values	n/a
Item Level Validation	None
Collection Notes	See General Notes 1. Data Protection.
Output/Presentation Notes	If for division, it's output become 2 digit only. For Dhaka division 30 When output for district, it's showed 5 digits such Dhaka district 30-26 When output for Upazila, it's showed 8 digits such Savar upazila under Dhaka district, 30-26-72 When output for Union, it's showed 11 digits such Ashulia union, under Savar Upazila, under Dhaka district, 30-26-72-18
History Notes	None
Multiplicity Notes	None
Table Name	Tbl_location_info, tbl_location_change_history
Source(s)	Bangladesh Bureau of Statistics (BBS)
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Location Name English

Ref Number	LF014	**Data Item Name**	Location_name_en
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing location name to be separately recorded. This is a specialized requirement for situations where location specifies how the name will appear, only acceptable in English Language such as 'satkania dokkin'
Type & Format	Alphanumeric up to 200 characters. A(200)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	Not normally collected, for local use only. See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	Tbl_area_info, tbl_area_change_history
Source(s)	Application specific
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Location Name Bangla

Ref Number	LF015	**Data Item Name**	Location_name_bd
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing a location name to be separately recorded. This is a specialized requirement for situations where location specifies how the name will appear, only acceptable in Bangla Language. **'সাতকানিয়া দক্ষিন'**
Type & Format	Alphanumeric up to 300 characters. Unicode Character set A(300)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	Not normally collected, for local use only. See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	Tbl_location_info, tbl_location_change_history
Source(s)	Application specific
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Location Active Status

Ref Number	LF019	**Data Item Name**	active _status
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	Indicates Current location unit condition, active, historical, proposed or de-activated
Type & Format	Only Integer value. 1. Active 2. Historical 3. Proposed 4. Draft 5. De-activated
Code Set/ Valid Values	n/a
Item Level Validation	If any location unit status 'historical' in location_info table, Check for its existence in Location_history_table.
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	Can Only record current status.
Multiplicity Notes	Can Apply only once per unit
Table Name	Tbl_location_info, tbl_location_change_history
Source(s)	Bangladesh Bureau of Statistics (BBS) Department Of Land Records And Survey Survey Of Bangladesh | **বাংলাদেশ জরিপ অধিদপ্তর**
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Survey Type (Location)

Ref Number	LF022	**Data Item Name**	Survey_type
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	Indicates location unit related to survey type. This survey type directly responsible for generating khatian/records.
Type & Format	One digit Integer value. 0. None 1. CS Record 2. RS Record 3. SA Record 4. BRS Record 5. DIARA Record 6. Pati Record 7. City Record
Code Set/ Valid Values	n/a
Item Level Validation	It's not mandatory to define every location unit have survey_type value. Many Location unit have no relation with survey.
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	n/a
Multiplicity Notes	n/a
Table Name	Tbl_location_type, Tbl_land_type, Tbl_area_info, tbl_area_change_history, Tbl_survey
Source(s)	Department Of Land Records And Survey Record Room, Deputy Collect orate Office
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Location Type ID

Ref Number	LF024	Data Item Name	Location_type_id
Class	Common	Status	Approved by SWG

Data Item Definition	
Description	A unique identifier for an individual land location type unit, as allocated by LISF.
Type & Format	There are currently more than 20 type land location type identified. All value stored in N(2) Number Only

Type ID	Area Type	Type ID	Area Type
10	Division	23	Municipality Ward
11	District	24	Union Ward
12	Upazila	25	Zone
13	Thana	27	Mohokuma
14	Union	30	Province
15	Mouja	31	Subah
17	Village	32	Sarkar
20	City Corporation	33	Pargana
21	City Coporation Ward	34	Tehsil
22	Municipality	35	Taluk

Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	n/a
Multiplicity Notes	n/a
Table Name	Tbl_location_type
Source(s)	LISF

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Location Type Name English

Ref Number	LF025	Data Item Name	Location_type_name_en
Class	Common	Status	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing location type full name to be separately/individually recorded. This is a specialized requirement for situations where any location unit type can specify how the name will appear, only acceptable in English Language such as `District`
Type & Format	Alphanumeric 100 digit.
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	Not normally collected, for local use only. See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	Tbl_land_type
Source(s)	LISF
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Location Type Name Bangla

Ref Number	LF026	**Data Item Name**	location_type_name_bd
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing location type full name to be separately/individually recorded. This is a specialized requirement for situations where any location unit type can specify how the name will appear, only acceptable in Bangla Language such as `জেলা`
Type & Format	Alphanumeric 150 digit.
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	Not normally collected, for local use only. See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	Tbl_location_type
Source(s)	LISF
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Remarks (Location Type)

Ref Number	LF027	**Data Item Name**	Remarks
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	Details description or any significant notes related to specific location type unit. Need to understand how that location unit forms, reforms or its current status.
Type & Format	Text type. A(500)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	Tbl_location_type
Source(s)	LISF
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Location Type level

Ref Number	LF028	Data Item Name	location_level
Class	Common	Status	Approved by SWG

Data Item Definition	
Description	An identifier which indicates location unit depth & hierarchy. Lowest value indicates broad location region and highest value indicate smallest location unit.
Type & Format	Number Only, Integer format & maximum 2 digit. Such as, 01 denotes Province/Division & 16 denotes Mouja
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	Tbl_location_type
Source(s)	LISF
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Land Type ID

Ref Number	LF031	Data Item Name	Land_type_id
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	A unique identifier for an individual land type unit, as allocated by LISF. Basically two major type Agricultural & Non-Agricultural.
Type & Format	There are two major type Agricultural & Non-Agricultural and remaining are sub-type. Alphanumeric 5 digit. A0004, where first digit denotes Major type and remaining four digit denotes subtype serial number.
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	n/a
Multiplicity Notes	n/a
Table Name	Tbl_land_type
Source(s)	Department Of Land Records And Survey
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Land Type Name English

Ref Number	LF032	Data Item Name	Land_type_name_en
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing location type full name to be separately/individually recorded. This is a specialized requirement for situations where any location unit type can specify how their name will appear, only acceptable in English Language such as `prayer place`
Type & Format	Alphanumeric 100 digit.
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	Not normally collected, for local use only. See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	Tbl_land_type
Source(s)	Department Of Land Records And Survey
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Land Type Name Bangla

Ref Number	LF033	**Data Item Name**	land_type_name_bd
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing location type full name to be separately/individually recorded. This is a specialized requirement for situations where any location unit type can specify how their name will appear, only acceptable in Bangla Language such as `**পাকা রাস্তা**`
Type & Format	Alphanumeric 150 digit.
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	Not normally collected, for local use only. See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	Tbl_land_type
Source(s)	Department Of Land Records And Survey
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Remarks (Land Type)

Ref Number	LF035	**Data Item Name**	Remarks
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	Details description or any significant notes related to specific land type. Need to understand how that land type forms, reforms or its current status.
Type & Format	Text type. A(255)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	Tbl_land_type
Source(s)	LISF
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SURVEY SECTION

Survey id

Ref Number	LF041	Data Item Name	Survey_id
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	These id allocated by LISF to identify Survey.
Type & Format	One digit Integer value. 0. None 1. CS Record 2. RS Record 3. SA Record 4. BRS Record 5. DIARA Record 6. Pati Record 7. City Record
Code Set/ Valid Values	n/a
Item Level Validation	As per the pattern above
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	n/a
Multiplicity Notes	n/a
Table Name	Tbl_location_type, Tbl_land_type, Tbl_area_info, tbl_area_change_history, Tbl_survey
Source(s)	LISF
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Survey Name English

Ref Number	LF042	**Data Item Name**	Survey_name_en
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	Survey Name of individual specific survey. Only acceptable in English Language.
Type & Format	A(200), free text.
Code Set/ Valid Values	n/a
Item Level Validation	None, the item is free text.
Collection Notes	For many purposes, collecting the Survey Name will be adequate for analysis requirements.
Output/Presentation Notes	n/a
History Notes	n/a
Multiplicity Notes	One survey must have only one specific survey name.
Table Name	Tbl_survey
Source(s)	Department Of Land Records And Survey LISF
To the Index	

Survey Name Bangla

Ref Number	LF043	**Data Item Name**	Survey_name_bd
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	Survey Name of individual specific survey. Only acceptable in Bangla Language.
Type & Format	A(255), free text.
Code Set/ Valid Values	n/a
Item Level Validation	None, the item is free text.
Collection Notes	For many purposes, collecting the Survey Name will be adequate for analysis requirements.
Output/Presentation Notes	n/a
History Notes	n/a
Multiplicity Notes	One survey must have only one specific survey name.
Table Name	Tbl_survey
Source(s)	Department Of Land Records And Survey LISF
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Survey Status

Ref Number	LF045	Data Item Name	Survey_status
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	An indication of whether survey considers themselves to have its current status.
Type & Format	0. Proposed 1. Running 2. Completed 3. Historical
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	This value may change over time and Proper Administrative authority would be expected to retain a history of changes. Most data collections will collect current status only.
Multiplicity Notes	One survey must have only one status value at a time.
Table Name	Tbl_survey
Source(s)	Department Of Land Records And Survey LISF
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Survey Description

Ref Number	LF046	Data Item Name	Survey_description
Class	Common	Status	Approved by SWG

Data Item Definition	
Description	Details description or any significant notes related to specific survey. Need to understand how that survey initiate, coverage, history & its current status.
Type & Format	Free text format. A(1000)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	This value may change over time and Proper Administrative authority would be expected to retain a history of changes.
Multiplicity Notes	n/a
Table Name	Tbl_survey
Source(s)	Department Of Land Records And Survey LISF
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Survey Start Date

Ref Number	LF047	Data Item Name	Survey_start_date
Class	Common	Status	Approved by SWG

Data Item Definition	
Description	The date when survey starts
Type & Format	See Standard Date domain
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes on data protection
Output/Presentation Notes	Application specific standards for dates should apply
History Notes	n/a
Multiplicity Notes	One instance only.
Table Name	Tbl_survey
Source(s)	Department Of Land Records And Survey
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Survey End Date

Ref Number	LF048	**Data Item Name**	Survey_end_date
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	The date when survey end. If survey status is running, in that case these field contain blank/null data.
Type & Format	See Standard Date domain
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes on data protection
Output/Presentation Notes	Application specific standards for dates should apply
History Notes	n/a
Multiplicity Notes	One instance only.
Table Name	Tbl_survey
Source(s)	Department Of Land Records And Survey
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RECORD SECTION

Khatian Number

Ref Number	LF051	**Data Item Name**	Khatian Number
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	A reference number that is issued to record/khatian/porcha by Department Of Land Records And Survey (DLRS) / Assistant Commissioner from upazila land office.
Type & Format	Mixed Number format. No character or letter accepted. In some cases only '/' allowed.
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes on data protection
Output/Presentation Notes	Application specific standards
History Notes	n/a
Multiplicity Notes	In one specific survey of smallest area unit (mouja) each record must have only unique khatian number.
Table Name	Tbl_{survey name}_dag_info_current, Tbl_{survey name}_dag_info_muted, Tbl_{survey name}_dag_info_survey, Tbl_{survey name}_owner_info_current, Tbl_{survey name}_owner_info_muted, Tbl_{survey name}_owner_info_survey,
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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Dag Number

Ref Number	LF052	Data Item Name	Dag Number
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	In particular smallest area unit such as mouja Where different number in a map identifies the different classified lands then it is called Dag number or Plot number. Though the lands of different owner are classified in a same class but different dag number marks them. These number issued during survey time by Department Of Land Records And Survey (DLRS)
Type & Format	Mixed Number format. No character or letter accepted. In some cases only '/' allowed.
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes on data protection
Output/Presentation Notes	Application specific standards
History Notes	n/a
Multiplicity Notes	In one specific survey of smallest area unit (mouja), each area unit all dag number/plot numbers are unique.
Table Name	Tbl_{survey name}_dag_info_current, Tbl_{survey name}_dag_info_muted, Tbl_{survey name}_dag_info_survey
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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Dag Remarks

Ref Number	LF053	Data Item Name	Dag_remarks
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	Description or any special notes regards on particular dag.
Type & Format	Free Text Format. A(1000)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	n/a
Multiplicity Notes	n/a
Table Name	Tbl_{survey name}_dag_info_current, Tbl_{survey name}_dag_info_muted, Tbl_{survey name}_dag_info_survey
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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Dag Total Area

Ref Number	LF054	Data Item Name	dag_total_area
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	Total Land Area amount of any specific dag in particular smallest area unit (mouja). It's measure in 'Acres' Format
Type & Format	Decimal Type N(5)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection
Output/Presentation Notes	None
History Notes	n/a
Multiplicity Notes	n/a
Table Name	Tbl_{survey name}_dag_info_current, Tbl_{survey name}_dag_info_muted, Tbl_{survey name}_dag_info_survey
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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Dag Area in Khatian

Ref Number	LF055	**Data Item Name**	dag_area_khatian
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	Land Area amount of any specific dag in particular smallest area unit (mouja) which is allocated any specific khatian. It's measure in 'Acres' Format
Type & Format	Decimal Type N(5)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection
Output/Presentation Notes	None
History Notes	n/a
Multiplicity Notes	n/a
Table Name	Tbl_{survey name}_dag_info_current, Tbl_{survey name}_dag_info_muted, Tbl_{survey name}_dag_info_survey
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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Land Owner Name English

Ref Number	LF061	Data Item Name	owner_name_en
Class	Common	Status	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing person name to be separately recorded. Only acceptable in English Language Format.
Type & Format	Character up to 200. A(200)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	Tbl_{survey name}_owner_info_current, Tbl_{survey name}_owner_info_muted, Tbl_{survey name}_owner_info_survey,
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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Land Owner Name Bangla

Ref Number	LF062	**Data Item Name**	owner_name_bd
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing person name to be separately recorded. Only acceptable in Bangla Language.
Type & Format	Character up to 300. Unicode Character set A(300)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	Tbl_{survey name}_owner_info_current, Tbl_{survey name}_owner_info_muted, Tbl_{survey name}_owner_info_survey,
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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Land Owner Father/Husband Name

Ref Number	LF063	**Data Item Name**	owner_father_husband_name_bd
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing person's father name if owner is male or person's husband name if owner is female, to be separately recorded. Only acceptable in Bangla Language.
Type & Format	Character up to 300. Unicode Character set A(300)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	Tbl_{survey name}_owner_info_current, Tbl_{survey name}_owner_info_muted, Tbl_{survey name}_owner_info_survey,
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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Land Owner Address

Ref Number	LF064	Data Item Name	owner_address
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	A placeholder for the full address of a person.
Type & Format	Two formats are available: A) Format based on the BS7666 standard. (British) B) The line address format.
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	Tbl_{survey name}_owner_info_current, Tbl_{survey name}_owner_info_muted, Tbl_{survey name}_owner_info_survey,
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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Land Owner Percentage in Khatian

Ref Number	LF065	**Data Item Name**	owner_percentage
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	Total Land Area percentage of any specific owner listed in Khatian.
Type & Format	Decimal Type N(4)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection
Output/Presentation Notes	None
History Notes	n/a
Multiplicity Notes	n/a
Table Name	Tbl_{survey name}_dag_info_current, Tbl_{survey name}_dag_info_muted, Tbl_{survey name}_dag_info_survey
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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DEED SECTION

Deed id

Ref Number	LF071	Data Item Name	Deed ID
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	A unique identifier for an individual deed, as allocated by the LISF deed identifying Service.
Type & Format	Twenty two digit number, with zero not allowed as the first character. N(22)
Code Set/ Valid Values	n/a
Item Level Validation	1. First digit must not be 0/ zero 2. First 2 digit will be deed type identifier, such 14 mean lease, 13 means heba etc. 3. Second 11 digit will be UNIX timestamp of deed creation time, it's not system generated time, its deed original creation time. 4. Third 2 digit denotes BBS Divisional Code 5. Fourth 2 digit denotes BBS District Code 6. Last 5 digit auto-incremental Number.
Collection Notes	See General Notes 1. Data Protection. Operational and data collection system of LISF should choose whether to hold LISF deed ID Numbers. If this data is held for qualified new deed only, clear guidance must be issued to avoid conflict being entered on the system. LISF should check as part of their verification processes for all relevant roles.
Output/Presentation Notes	None
History Notes	Reference Table tbl_location_change_history
Multiplicity Notes	From a system design perspective, one deed can only have one unique ID Number
Table Name	tbl_deed, tbl_deed_owmer_profile, tbl_deed_seller_profile, tbl_deed_log
Source(s)	Law & Justice Division Registration Directorate LISF
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Deed Type ID

Ref Number	LF072	**Data Item Name**	deed_type_id
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	A unique identifier for an individual deed type, as allocated by LISF.
Type & Format	There are currently more than 6 type deed identified. All value stored in N(2) Number Only
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	n/a
Multiplicity Notes	n/a
Table Name	tbl_deed_type
Source(s)	Law & Justice Division Registration Directorate LISF

10	Heba	18	Lease
12	Baynanama	15	Mortgage

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Deed Owner/Seller/Witness Name English

Ref Number	LF081 LF082 LF083	**Data Item Name**	deed_owner_name_en deed_seller_name_en deed_witness_name_en
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing person name to be separately recorded. Only acceptable in English Language Format.
Type & Format	Character up to 200. A(200)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	tbl_deed_owmer_profile, tbl_deed_seller_profile,
Source(s)	Law & Justice Division Registration Directorate LISF
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Deed Owner/Seller/Witness Name Bangla

Ref Number	LF085 LF086 LF087	**Data Item Name**	deed_owner_name_bd deed_seller_name_bd deed_witness_name_bd
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing person name to be separately recorded. Only acceptable in Bangla Language Format.
Type & Format	Character up to 300. Unicode Character set A(300)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	tbl_deed_owmer_profile, tbl_deed_seller_profile,
Source(s)	Law & Justice Division Registration Directorate LISF
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Owner/Seller Father/Mother/Spouse Name English

Ref Number	LF091 LF092 LF093 LF094 LF095 LF096	**Data Item Name**	deed_owner_father_name_en deed_seller_father_name_en deed_owner_mother_name_en deed_seller_mother_name_en deed_owner_spouse_name_en deed_seller_spouse_name_en
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing person name to be separately recorded. Only acceptable in English Language Format.
Type & Format	Character up to 200. A(200)
Code Set/ Valid Values	n/a
Item Level Validation	These data must be related to either deed owner/seller name.
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	tbl_deed_owmer_profile, tbl_deed_seller_profile,
Source(s)	Law & Justice Division Registration Directorate LISF
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Owner/Seller Father/Mother/Spouse Name Bangla

Ref Number	LF097 LF098 LF099 LF100 LF101 LF102	**Data Item Name**	deed_owner_father_name_bd deed_seller_father_name_bd deed_owner_mother_name_bd deed_seller_mother_name_bd deed_owner_spouse_name_bd deed_seller_spouse_name_bd
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing person name to be separately recorded. Only acceptable in Bangla Language Format.
Type & Format	Character up to 200. Unicode character set A(200)
Code Set/ Valid Values	n/a
Item Level Validation	These data must be related to either deed owner/seller name.
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	tbl_deed_owmer_profile, tbl_deed_seller_profile,
Source(s)	Law & Justice Division Registration Directorate LISF
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Owner/Seller/Witness Present Address

Ref Number	LF104 LF105 LF106	**Data Item Name**	deed_owner_present_address deed_seller_present_address deed_witness_present_address
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	A placeholder for the present address of a either deed owner/seller or witness.
Type & Format	Two formats are available: A) Format based on the BS7666 standard. (British) B) The line address format.
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	Tbl_{survey name}_owner_info_current, Tbl_{survey name}_owner_info_muted, Tbl_{survey name}_owner_info_survey,
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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Owner/Seller/Witness Permanent Address

Ref Number	LF110 LF111 LF112	**Data Item Name**	deed_owner_permanent_address deed_seller_ permanent _address deed_witness_ permanent _address
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	A placeholder for the permanent address of a either deed owner/seller or witness.
Type & Format	Two formats are available: A) Format based on the BS7666 standard. (British) B) The line address format.
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application specific
Multiplicity Notes	Application specific
Table Name	Tbl_{survey name}_owner_info_current, Tbl_{survey name}_owner_info_muted, Tbl_{survey name}_owner_info_survey,
Source(s)	Department Of Land Records And Survey Upazila Land Office District Record Room
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SERVICE SECTION

Service ID

Ref Number	LF201	Data Item Name	service_id
Class	Common	Status	Approved by SWG

Data Item Definition	
Description	A unique identifier for an individual registered & approved service for LISF.
Type & Format	Number Only, auto incremental fashion. N(4)
Code Set/ Valid Values	Unique
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	n/a
Multiplicity Notes	Only One value per Service
Table Name	tbl_service, tbl_service_api_registration, tbl_service_api_registration_log, tbl_service_api_client_info
Source(s)	LISF
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Service Name

Ref Number	LF202	Data Item Name	service_name
Class	Universal	Status	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing as a service name to be separately recorded. It can allow name either English or Bangla Language Format.
Type & Format	Free Text A(500)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	tbl_service, tbl_service_api_registration, tbl_service_api_registration_log, tbl_service_api_client_info
Source(s)	LISF
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Service Description

Ref Number	LF203	Data Item Name	Servie_description
Class	Common	Status	Approved by SWG

Data Item Definition	
Description	Details description or any significant notes related to specific registered and approved service. Need to understand how that service works, initiate, coverage, history & its current status.
Type & Format	Free text format. A(1000)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	This value may change over time and Proper Administrative authority would be expected to retain a history of changes.
Multiplicity Notes	n/a
Table Name	tbl_service, tbl_service_api_registration, tbl_service_api_registration_log, tbl_service_api_client_info
Source(s)	LISF
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Service API/Method ID

Ref Number	LF204	**Data Item Name**	service_method_id
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	A unique identifier for an individual service API method of LISF. These method required to serve data for 3rd party service provider from LISF.
Type & Format	Number Only, auto incremental fashion. N(4)
Code Set/ Valid Values	Unique
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	n/a
Multiplicity Notes	Only One value per Service
Table Name	tbl_service_api_library, tbl_service_api_param_info, tbl_service_api_registration, tbl_service_api_registration_log, tbl_service_access_log
Source(s)	LISF
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Service API/Method Name

Ref Number	LF205	**Data Item Name**	service_api_method_name
Class	Universal	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing as a service API method name to be separately recorded. Only English Language Format.
Type & Format	Free Text A(500)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	tbl_servie_api_library
Source(s)	LISF
To the Index	

Service API/Method Description

Ref Number	LF206	**Data Item Name**	method_description
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	Details description or any significant notes related to specific service API method. Need to understand how that method works, initiate, response, parameters condition, history & its current status.
Type & Format	Free text format. A(1000)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	This value may change over time and Proper Administrative authority would be expected to retain a history of changes.
Multiplicity Notes	n/a
Table Name	tbl_service_api_library, tbl_service_api_param_info
Source(s)	LISF
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Service API/Method Is Paid

Ref Number	LF207	**Data Item Name**	service_method_is_paid
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	Is Identified any service API method paid or not. If paid it contain amount value if not paid it contain 0
Type & Format	decimal floating point A(6) , 2 digit after decimal point
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	tbl_service_api_library, tbl_service_api_registration, tbl_service_api_registration_log
Source(s)	LISF
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Service Method Parameter Name

Ref Number	LF208	**Data Item Name**	service_method_param_name
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	A single text item allowing as a service API method parameter name. If multiple word need it must be combine with underscore such as user_name. Only Acceptable English Language Format.
Type & Format	Alphanumeric Text up to 150 character.
Code Set/ Valid Values	n/a
Item Level Validation	No Separate word, only single item.
Collection Notes	See General Notes, 1. Data Protection
Output/Presentation Notes	n/a
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	tbl_service_api_param_info
Source(s)	LISF
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Service Method Parameter Description

Ref Number	LF209	**Data Item Name**	service_method_param_desc
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	Details description or any significant notes related to specific service API method Parameter. Need to understand how that parameter of particular method works, initiate, type, history & its current status.
Type & Format	Free text format. A(1000)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	This value may change over time and Proper Administrative authority would be expected to retain a history of changes.
Multiplicity Notes	n/a
Table Name	tbl_service_api_param_info
Source(s)	LISF
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Is Mandatory

Ref Number	LF210	**Data Item Name**	service_method_param_is_mandatory
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	Is Identified any service method API parameter of that particular method is mandatory or not to complete service request. If mandatory it contain value True otherwise False
Type & Format	See Standard Yes/No Type domain
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	tbl_service_api_param_info
Source(s)	LISF
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Response Duration

Ref Number	LF211	Data Item Name	method_response_duration
Class	Common	Status	Approved by SWG

Data Item Definition	
Description	The number of microsecond that is recorded to serve each method request completely from initiate to response.
Type & Format	Number Only N(9)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	n/a
Output/Presentation Notes	n/a
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	tbl_service_access_log
Source(s)	LISF
To the Index	

Service Provider Name

Ref Number	LF212	**Data Item Name**	service_provider_name
Class	Common	**Status**	Approved by SWG

Data Item Definition	
Description	A separate, free-format text item allowing as a service provider name to be separately recorded. It can allow name either English or Bangla Language Format.
Type & Format	Free Text A(500)
Code Set/ Valid Values	n/a
Item Level Validation	n/a
Collection Notes	See General Notes, 1. Data Protection, Character Sets.
Output/Presentation Notes	See General Notes, 2. Character Sets.
History Notes	Application Specific
Multiplicity Notes	Application Specific
Table Name	tbl_service_api_client_info
Source(s)	LISF
To the Index	

3.2 Domain Keywords

Standard Date

Ref Number	D010	**Data Item Name**	Standard Date
Class	Universal	**Status**	Approved by SWG

Survey Start Date	Survey End Date	

Item Type	Date
Type & Format	Storage formats will vary between applications. Many database and spreadsheets applications use a Julian date internally. Display formats will vary according to local standards. Interchange format should use the e-GIF standards, which is YYYY-MM-DD. This is derived from the XML Schema standard date definition. All usages should ensure there are no problems with the century and four-digit years should be used unless display space is an issue.
Default Value	n/a
Domain Level Validation	Must be a valid date, i.e. - a valid month - a number of days that is valid for the month - inclusion of 29 February if a leap year
Code Value	None
Description	None
History Notes	None
Source(s)	ISO 8601 - Numeric Representation of Dates and Time
To the Index	

Standard Yes/No Type

Ref Number	D020	**Data Item Name**	Standard Yes/No Type
Class	Universal	**Status**	Approved by SWG

service_method_is_paid	param_is_mandatory	

Item Type	Boolean
Type & Format	4 or 5 character text string
Default Value	None
Domain Level Validation	None
Code Value	True – true False – false
Description	None
Code Set Notes	a) In interchange standards, XML / XSD allows 0 and 1 as lexical alternatives to True and False; b) Within XML that is defined according to standard W3C schema definition of xs: Boolean, True and False are case sensitive and must be presented as shown.
Source(s)	Based on the ADD data types and W3C schema
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Annexes

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Annex A - Extended Character Set Support

Terminology: In this annex, the term "extended characters" refers to those characters that are beyond the range of basic ASCII characters, i.e. beyond code points 0000 through 007F. Extended characters thus include upper or lowercase Latin characters that also have an accent, or special characters such as the Inverted Question Mark, as used in Spanish.

At the present time DCSF policy is to process, or plan towards future processing of, all Latin-based characters for names, addresses and general text fields. Other character types, such as Chinese, Greek or Cyrillic, are not within the scope of this policy. This appears to fulfil present expectations of central government and its partners. It is also in line with current public sector practice.

The full range of extended characters, listed below, should be available for names, addresses and general text fields. The ranges are covered by the following Unicode charts: [1]

Code Chart	Character Range	Notes
Basic Latin	U+0000 - U+007F	Basic ASCII. Includes C0 control characters U+0000 - U+001F
Latin-1	U+0080 - U+00FF	Includes characters required for Welsh and Gaelic languages. Includes C1 control characters U+0080 - U+009F
Latin Extended A	U+0100 - U+017F	Required for Irish Gaelic dotted consonants.
Latin Extended B	U+0180 - U+024F	Required to support Balkan and some non-European extensions.
Latin Extended Additional	U+1E00 - U+1EFF	Optional requirement with less common combinations of vowels and accents, included for completeness

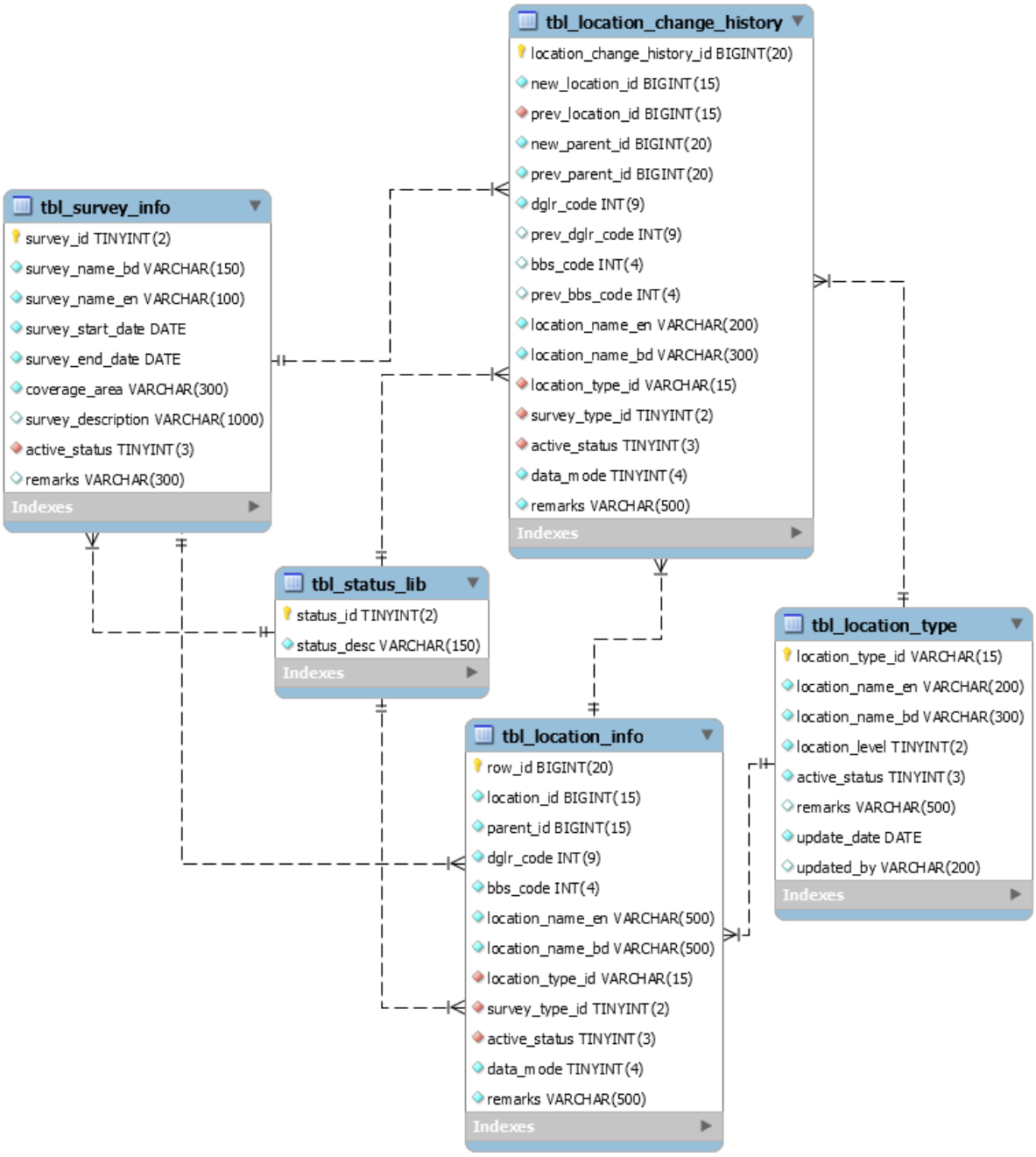
The Unicode Standards are available online at http://www.unicode.org/. Individual code charts can be downloaded from http://www.unicode.org/charts/.

[1] Some of the material in this section is taken from the CCDS Document, version 1.0, May 2016.

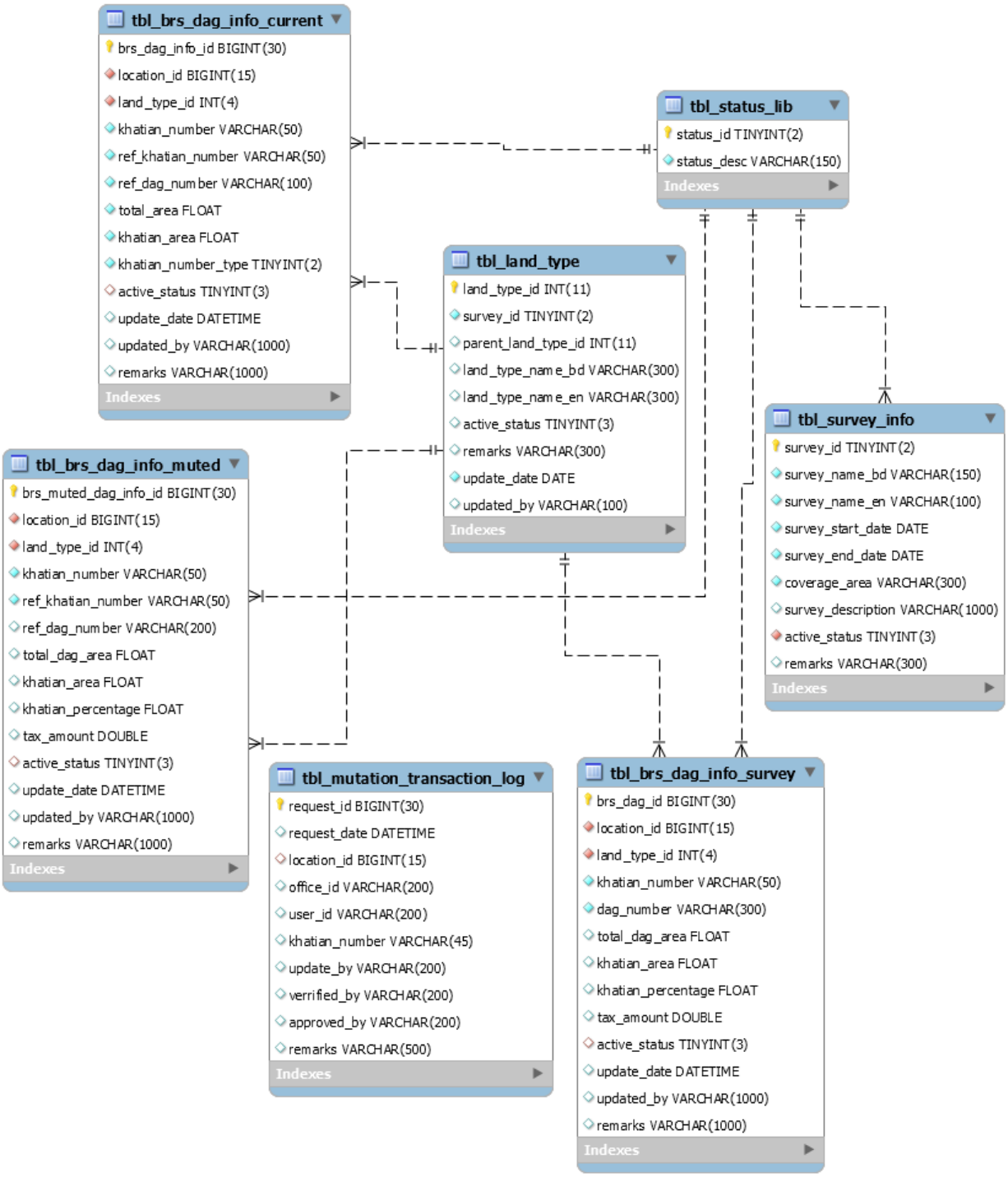
Annex B - Data Model Fragments

E-R Diagram

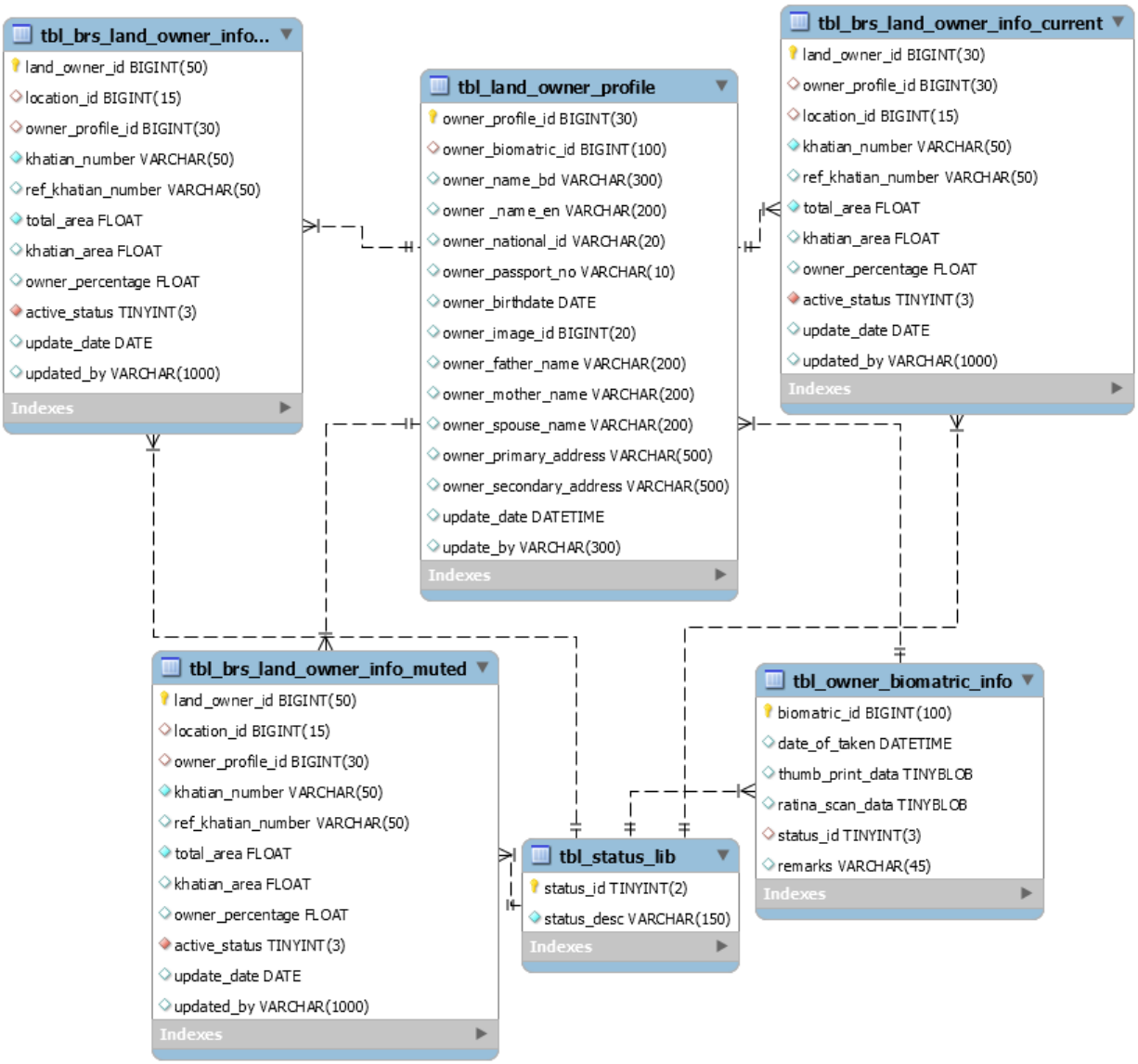
Location



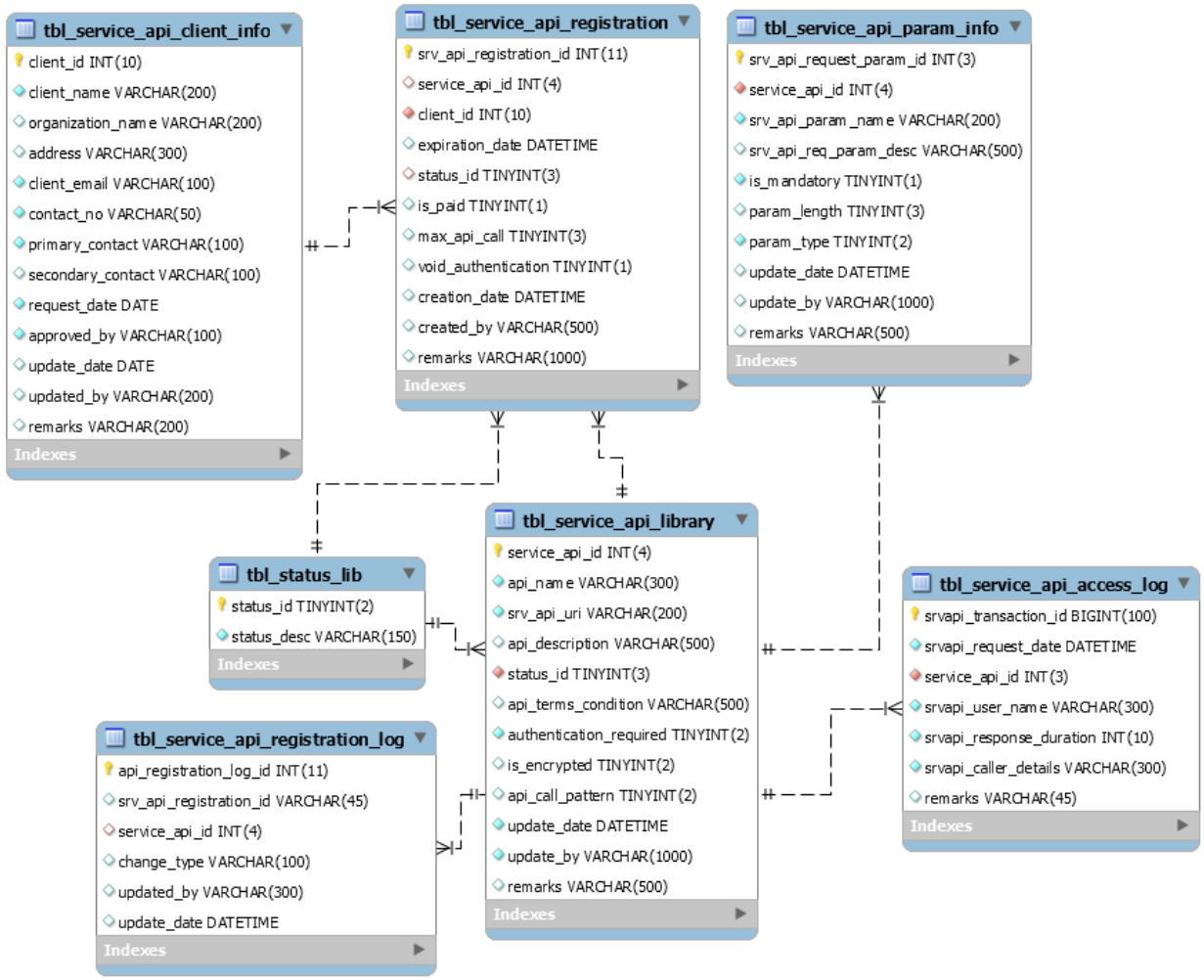
Dag Information

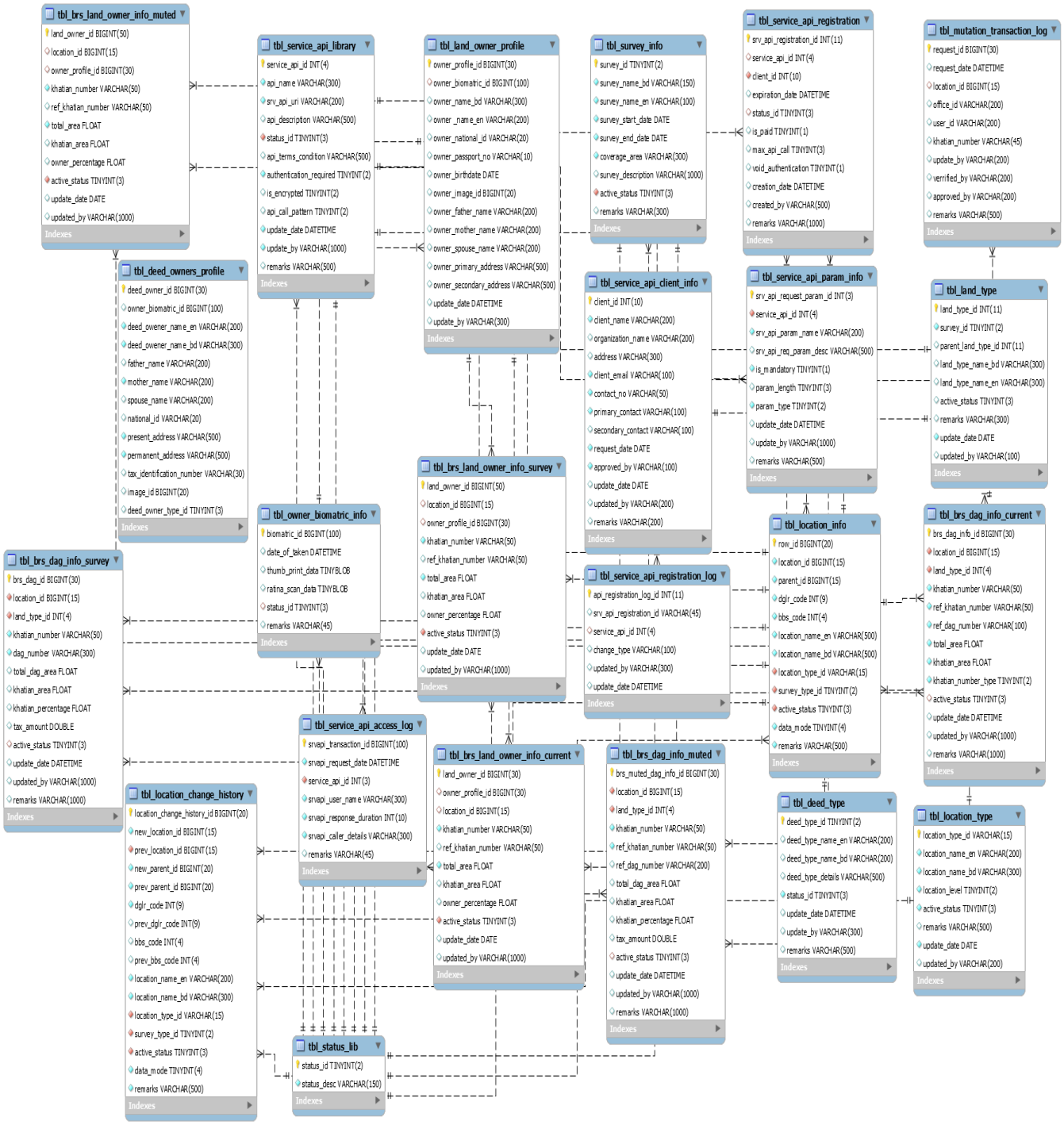


Owner Information



Service API


tbl_service_api_client_info
client_id INT(10)
client_name VARCHAR(200)
organization_name VARCHAR(200)
address VARCHAR(300)
client_email VARCHAR(100)
contact_no VARCHAR(50)
primary_contact VARCHAR(100)
secondary_contact VARCHAR(100)
request_date DATE
approved_by VARCHAR(100)
update_date DATE
updated_by VARCHAR(200)
remarks VARCHAR(200)
Indexes
tbl_service_api_registration
srv_api_registration_id INT(11)
service_api_id INT(4)
client_id INT(10)
expiration_date DATETIME
status_id TINYINT(3)
is_paid TINYINT(1)
max_api_call TINYINT(3)
void_authentication TINYINT(1)
creation_date DATETIME
created_by VARCHAR(500)
remarks VARCHAR(1000)
Indexes
tbl_service_api_param_info
srv_api_request_param_id INT(3)
service_api_id INT(4)
srv_api_param_name VARCHAR(200)
srv_api_req_param_desc VARCHAR(500)
is_mandatory TINYINT(1)
param_length TINYINT(3)
param_type TINYINT(2)
update_date DATETIME
update_by VARCHAR(1000)
remarks VARCHAR(500)
Indexes
tbl_status_lib
status_id TINYINT(2)
status_desc VARCHAR(150)
Indexes
tbl_service_api_library
service_api_id INT(4)
api_name VARCHAR(300)
srv_api_uri VARCHAR(200)
api_description VARCHAR(500)
status_id TINYINT(3)
api_terms_condition VARCHAR(500)
authentication_required TINYINT(2)
is_encrypted TINYINT(2)
api_call_pattern TINYINT(2)
update_date DATETIME
update_by VARCHAR(1000)
remarks VARCHAR(500)
Indexes
tbl_service_api_access_log
srvapi_transaction_id BIGINT(100)
srvapi_request_date DATETIME
service_api_id INT(3)
srvapi_user_name VARCHAR(300)
srvapi_response_duration INT(10)
srvapi_caller_details VARCHAR(300)
remarks VARCHAR(45)
Indexes
tbl_service_api_registration_log
api_registration_log_id INT(11)
srv_api_registration_id VARCHAR(45)
service_api_id INT(4)
change_type VARCHAR(100)
updated_by VARCHAR(300)
update_date DATETIME
Indexes


tbl_brs_land_owner_info_muted
land_owner_id BIGINT(50)
location_id BIGINT(15)
owner_profile_id BIGINT(30)
khatian_number VARCHAR(50)
ref_khatian_number VARCHAR(50)
total_area FLOAT
khatian_area FLOAT
owner_percentage FLOAT
active_status TINYINT(3)
update_date DATE
updated_by VARCHAR(1000)
Indexes
tbl_service_api_library
service_api_id INT(4)
api_name VARCHAR(300)
srv_api_uri VARCHAR(200)
api_description VARCHAR(500)
status_id TINYINT(3)
api_terms_condition VARCHAR(500)
authentication_required TINYINT(2)
is_encrypted TINYINT(2)
api_call_pattern TINYINT(2)
update_date DATETIME
update_by VARCHAR(1000)
remarks VARCHAR(500)
Indexes
tbl_land_owner_profile
owner_profile_id BIGINT(30)
owner_biomatric_id BIGINT(100)
owner_name_bd VARCHAR(300)
owner _name_en VARCHAR(200)
owner_national_id VARCHAR(20)
owner_passport_no VARCHAR(10)
owner_birthdate DATE
owner_image_id BIGINT(20)
owner_father_name VARCHAR(200)
owner_mother_name VARCHAR(200)
owner_spouse_name VARCHAR(200)
owner_primary_address VARCHAR(500)
owner_secondary_address VARCHAR(500)
update_date DATETIME
update_by VARCHAR(300)
Indexes
tbl_survey_info
survey_id TINYINT(2)
survey_name_bd VARCHAR(150)
survey_name_en VARCHAR(100)
survey_start_date DATE
survey_end_date DATE
coverage_area VARCHAR(300)
survey_description VARCHAR(1000)
active_status TINYINT(3)
remarks VARCHAR(300)
Indexes
tbl_service_api_registration
srv_api_registration_id INT(11)
service_api_id INT(4)
client_id INT(10)
expiration_date DATETIME
status_id TINYINT(3)
is_paid TINYINT(1)
max_api_call TINYINT(3)
void_authentication TINYINT(1)
creation_date DATETIME
created_by VARCHAR(500)
remarks VARCHAR(1000)
Indexes
tbl_mutation_transaction_log
request_id BIGINT(30)
request_date DATETIME
location_id BIGINT(15)
office_id VARCHAR(200)
user_id VARCHAR(200)
khatian_number VARCHAR(45)
update_by VARCHAR(200)
verified_by VARCHAR(200)
approved_by VARCHAR(200)
remarks VARCHAR(500)
Indexes
tbl_deed_owners_profile
deed_owner_id BIGINT(30)
owner_biomatric_id BIGINT(100)
deed_owener_name_en VARCHAR(200)
deed_owener_name_bd VARCHAR(300)
father_name VARCHAR(200)
mother_name VARCHAR(200)
spouse_name VARCHAR(200)
national_id VARCHAR(20)
present_address VARCHAR(500)
permanent_address VARCHAR(500)
tax_identification_number VARCHAR(30)
image_id BIGINT(20)
deed_owner_type_id TINYINT(3)
Indexes
tbl_service_api_client_info
client_id INT(10)
client_name VARCHAR(200)
organization_name VARCHAR(200)
address VARCHAR(300)
client_email VARCHAR(100)
contact_no VARCHAR(50)
primary_contact VARCHAR(100)
secondary_contact VARCHAR(100)
request_date DATE
approved_by VARCHAR(100)
update_date DATE
updated_by VARCHAR(200)
remarks VARCHAR(200)
Indexes
tbl_service_api_param_info
srv_api_request_param_id INT(3)
service_api_id INT(4)
srv_api_param_name VARCHAR(200)
srv_api_req_param_desc VARCHAR(500)
is_mandatory TINYINT(1)
param_length TINYINT(3)
param_type TINYINT(2)
update_date DATETIME
update_by VARCHAR(1000)
remarks VARCHAR(500)
Indexes
tbl_land_type
land_type_id INT(11)
survey_id TINYINT(2)
parent_land_type_id INT(11)
land_type_name_bd VARCHAR(300)
land_type_name_en VARCHAR(300)
active_status TINYINT(3)
remarks VARCHAR(300)
update_date DATE
updated_by VARCHAR(100)
Indexes
tbl_brs_land_owner_info_survey
land_owner_id BIGINT(50)
location_id BIGINT(15)
owner_profile_id BIGINT(30)
khatian_number VARCHAR(50)
ref_khatian_number VARCHAR(50)
total_area FLOAT
khatian_area FLOAT
owner_percentage FLOAT
active_status TINYINT(3)
update_date DATE
updated_by VARCHAR(1000)
Indexes
tbl_owner_biomatric_info
biomatric_id BIGINT(100)
date_of_taken DATETIME
thumb_print_data TINYBLOB
ratina_scan_data TINYBLOB
status_id TINYINT(3)
remarks VARCHAR(45)
Indexes
tbl_brs_dag_info_survey
brs_dag_id BIGINT(30)
location_id BIGINT(15)
land_type_id INT(4)
khatian_number VARCHAR(50)
dag_number VARCHAR(300)
total_dag_area FLOAT
khatian_area FLOAT
khatian_percentage FLOAT
tax_amount DOUBLE
active_status TINYINT(3)
update_date DATETIME
updated_by VARCHAR(1000)
remarks VARCHAR(1000)
Indexes
tbl_service_api_registration_log
api_registration_log_id INT(11)
srv_api_registration_id VARCHAR(45)
service_api_id INT(4)
change_type VARCHAR(100)
updated_by VARCHAR(300)
update_date DATETIME
Indexes
tbl_location_info
row_id BIGINT(20)
location_id BIGINT(15)
parent_id BIGINT(15)
dglr_code INT(9)
bbs_code INT(4)
location_name_en VARCHAR(500)
location_name_bd VARCHAR(500)
location_type_id VARCHAR(15)
survey_type_id TINYINT(2)
active_status TINYINT(3)
data_mode TINYINT(4)
remarks VARCHAR(500)
Indexes
tbl_brs_dag_info_current
brs_dag_info_id BIGINT(30)
location_id BIGINT(15)
land_type_id INT(4)
khatian_number VARCHAR(50)
ref_khatian_number VARCHAR(50)
ref_dag_number VARCHAR(100)
total_area FLOAT
khatian_area FLOAT
khatian_number_type TINYINT(2)
active_status TINYINT(3)
update_date DATETIME
updated_by VARCHAR(1000)
remarks VARCHAR(1000)
Indexes
tbl_service_api_access_log
srvapi_transaction_id BIGINT(100)
srvapi_request_date DATETIME
service_api_id INT(3)
srvapi_user_name VARCHAR(300)
srvapi_response_duration INT(10)
srvapi_caller_details VARCHAR(300)
remarks VARCHAR(45)
Indexes
tbl_brs_land_owner_info_current
land_owner_id BIGINT(30)
owner_profile_id BIGINT(30)
location_id BIGINT(15)
khatian_number VARCHAR(50)
ref_khatian_number VARCHAR(50)
total_area FLOAT
khatian_area FLOAT
owner_percentage FLOAT
active_status TINYINT(3)
update_date DATE
updated_by VARCHAR(1000)
Indexes
tbl_brs_dag_info_muted
brs_muted_dag_info_id BIGINT(30)
location_id BIGINT(15)
land_type_id INT(4)
khatian_number VARCHAR(50)
ref_khatian_number VARCHAR(50)
ref_dag_number VARCHAR(200)
total_dag_area FLOAT
khatian_area FLOAT
khatian_percentage FLOAT
tax_amount DOUBLE
active_status TINYINT(3)
update_date DATETIME
updated_by VARCHAR(1000)
remarks VARCHAR(1000)
Indexes
tbl_deed_type
deed_type_id TINYINT(2)
deed_type_name_en VARCHAR(200)
deed_type_name_bd VARCHAR(200)
deed_type_details VARCHAR(500)
status_id TINYINT(3)
update_date DATETIME
update_by VARCHAR(300)
remarks VARCHAR(500)
Indexes
tbl_location_type
location_type_id VARCHAR(15)
location_name_en VARCHAR(200)
location_name_bd VARCHAR(300)
location_level TINYINT(2)
active_status TINYINT(3)
remarks VARCHAR(500)
update_date DATE
updated_by VARCHAR(200)
Indexes
tbl_location_change_history
location_change_history_id BIGINT(20)
new_location_id BIGINT(15)
prev_location_id BIGINT(15)
new_parent_id BIGINT(20)
prev_parent_id BIGINT(20)
dglr_code INT(9)
prev_dglr_code INT(9)
bbs_code INT(4)
prev_bbs_code INT(4)
location_name_en VARCHAR(200)
location_name_bd VARCHAR(300)
location_type_id VARCHAR(15)
survey_type_id TINYINT(2)
active_status TINYINT(3)
data_mode TINYINT(4)
remarks VARCHAR(500)
Indexes
tbl_status_lib
status_id TINYINT(2)
status_desc VARCHAR(150)
Indexes

Annex C - Data Standards Meta Data Model

The documentation of the LISF data standards is organized around the following object model, which is adapted from the ISO 11179 standard for meta-data:

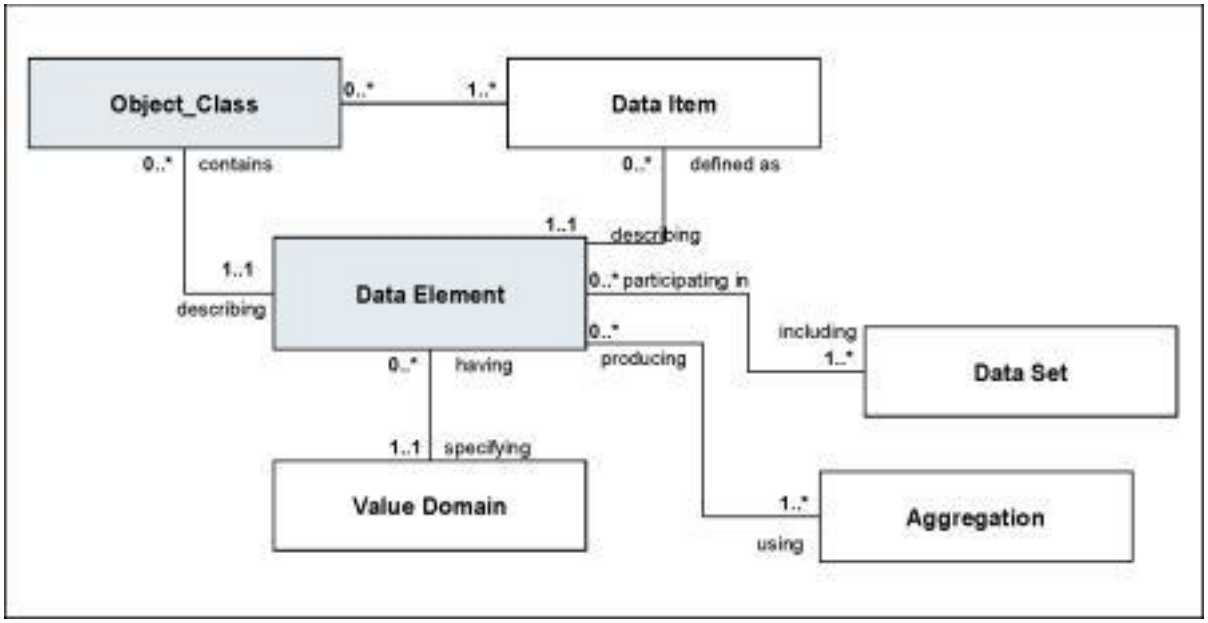


Figure 8: Meta-Data Model

Within this version of the standards, the highlighted objects are not populated. The Object Classes are assumed to equate to the high level entities, as per the Introduction above.

It is also assumed that context will enable users of these standards to translate Data Item definitions into Data Elements where appropriate.

Accordingly the bulk of these standards cover definitions of Data Items, Aggregations and Value Domains (simplified to Domains in the documentation).

Data Sets will be added at a later stage of the work

Annex D - The Standards Working Group

Team member information who worked directly in this domain

Access To Information Programme	SoftBD Limited
Arfe Elahi Manik IT Manager	Atiqul Islam Khan Project Manager
Lutfur Rahman Domain Expert	Mohammad Nizam Uddin Database Analyst
Mohammad Enamul Haque National Consultant	Maruf Saifullah System Analyst
Hafijur Rahman Senior Software Engineer	Mazba Kamal Senior Software Engineer
Humayun Kabir Software Engineer	Ibrahim Al Naz Rana Software Engineer

Annex E – References

ISO 10303-1:1994 Industrial automation systems and integration -- Product data representation and exchange -- Part 1: Overview and fundamental principles

Ramez Elmasri, Shamkant B. Navathe: *Fundamentals of Database Systems*

ACM, IBM Dictionary of Computing, 10th edition, 1993

Chatfield, T., Selbach, R. February, 2011. Data Management for Data Stewards. Data Management Training Workshop. Bureau of Land Management (BLM).

BS7666 is the British standard for the representation of address information – More Info

4000-year old settlement unearthed in Bangladesh". Xinhua. March 2006.

Banglapedia. Asiatic Society of Bangladesh. Retrieved 5 August 2015.

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