# Data Manual for Licensing Self-Certification Portal (LSCP)

**Version: 1.1** (Combined from v0.1 and Data Catalogue v1.1)

**January 21, 2025**

? The Government of the Hong Kong Special Administrative Region

The contents of this document remain the property of and may not be reproduced in whole or in part without the express permission of the Government of the HKSAR.

BDlogo

**Distribution**

| Copy No. | Holder |
| --- | --- |
| 1 | Buildings Department (BD) |
| 2 | Master Concept (Hong Kong) Limited (MC) |

**Amendment History**

| Change Number | Revision Description | Pages Affected | Revision/Version Number | Date | Approval Reference |
| --- | --- | --- | --- | --- | --- |
| 1 | First Draft | All | 1.0 | 21/01/2025 |  |
| 2 | Added missing models and descriptions | 1,3,4-6 | 1.1 | 21/01/2025 |  |
| 3 | 1st draft (Initial Data Manual) | All | 0.1 | 16/01/2025 |  |

**TABLE OF CONTENTS**

[**1. Introduction**](#Xe3d0fc0bea9a42ce7605565d0964033d7f6ee47)

[**2. Definitions**](#Xc2631108e70ae71e611b1df72cf1c7add459919)

[**3. Data Architecture Overview**](#Xb33d90a89a1c24925830dcab75b02fc469ef101)

[**4. Database Specifications**](#Xb26c4724ad4a07131626d039725c31df3bf392b)

[4.1 MongoDB Collections](#X9b99f92b04820091a0e9ad16fcc8a08e491bb4d) [4.1.1 tasks](#X49d69208723117be4c109527bc11c73727ff40a) [4.1.2 eminutes](#X8d9c2fe5dc83c9dc5827c4f1d09fcb5d11d6bad) [4.1.3 submissions](#X2c8a7cabed7dc058f9ccc54f9099eff5004085c) [4.1.4 applications](#Xa556aae3e35eac6310ffcfe6aa32ef82f9261b6) [4.1.5 notifications](#Xd4eca9d50f9c9c1925dc2beb3944bec0b6412a8) [4.1.6 bsblocks](#Xc415ea4da86c7e52f27007c737b3e1449a5d5a1) [4.1.7 cases](#Xf4200412851e789dd7c463dcf5524e40edf55eb) [4.1.8 oauthtokens](#Xeffd49190b4956d2d581297982b2edd8091a314) [4.1.9 sysfilerefs](#Xfa78f0a0530edb8177b9908d04bf1547bfba6b1) [4.1.10 attachments](#X4427b53b8e170ca425891f24b7536ef277cff40) [4.1.11 users](#Xd3347834d9044c421ae87b8fb47b0c60755a9d1) [4.1.12 adrblkfilerefs](#Xe446dcf33bbacd6cfc4ad7c215f6d70b1a8ad30)

[4.2 MSSQL Tables](#Xc8474a81720284f2ed4a458f24b365f2739780f) [4.2.1 \_\_EFMigrationsHistory](#Xc2ee5888179874f8d6a2d81338756fd8f67e9cd) [4.2.2 AdrBlk](#Xadf20c8a70b64ee2256c51a51e14030c3c5cd3a) [4.2.3 AdrBlk\_T](#Xc95b3d4b8aead0cebd6b6fab357edfafa3a9d4d) [4.2.4 ApplicationCases](#X3b4d75e0bb95fd568189dc2a42545eb6954b18b) [4.2.5 ApplicationFiles](#X62816d78054593bcdccc6eedc9784e8fabc7fc4) [4.2.6 ApRse](#X380087708f3c2d0682276349f384eaae00de11e) [4.2.7 Attachment](#Xd5f75adcda9e41e18960fc4d35a74070014d02d) [4.2.8 BackendUpdate](#Xf481ffee2592b584c6cc415b665eebeb76cef4a) [4.2.9 ChildCareCentreApplications](#X2348af0d08c304893d670e6589237b871a538d2) [4.2.10 GenOtp](#X7f6db3404cd0ce2b96712e24e937878bfa61938) [4.2.11 IamSmart](#Xad574dd45724c4036ebe292a979a7308b6446a8) [4.2.12 LogEvents](#Xabbd47fd69004d077a55829d4c0ffb6379e29a4) [4.2.13 SchoolApp\_Infos](#Xa21f09cd6044a80ddbc1cbd7f5dc05534aee962) [4.2.14 SchoolApp\_Submission](#X3e61f04daf9762c48d0bed8270baa397297034e) [4.2.15 SchoolApp\_Submissions](#X1efeb34ac02087792c1dd5457a88178d29ad9e2) [4.2.16 ScsMasterTable](#Xc3a20e6691e3777ce1e9bcfe5898ca209d62446) [4.2.17 SequelizeMeta](#Xb0eec01186061ce0278077e992dad960accb418) [4.2.18 Sys\_Meta\_Data](#X1291426d3d8c46fd05a332a2d141c5027bf8093) [4.2.19 Sys\_Meta\_Data\_T](#X82d16f448411afbcb3630dfd993e78a101bf66f)

[**5. List of Tables**](#Xcfc9a9e8399ecfc07449b1a855a28338e783466)

[**5.1 Table Description**](#Xe8168ca6a65e6977aca84d039448ef11bcd8017) [5.1.1 User Token](#X84baccbe45b9176725b6f1547a91bc249a90f5a)

[**5.2 Table Primary Key**](#X4c7682440a7013458856da2872efa455ef5ecf3)

[**5.3 Table Foreign Key**](#X98d94f4e31352c4965dfa0c19517d6f903bb3cc)

[**6. Report Description**](#X0b90acff61f5624978d08e68708f7b8b13fb7da)

[6.1 List of Reports / Layout](#Xa97c69b6bdfc098247d71adef4facd01da90b58)

[**7. Screen Description**](#Xf26435de8b847314952be27580c9f2260c5aee4) [7.1 Search Responsible Site Project](#X6365205ac9e7db8bccb406de73d49b2ddca0bea)

[**8. Screen/ Program Manual Mapping**](#Xe8de5972c5fba887424d1054bf2d110a9d71a29)

# **1. Introduction**

This document provides a comprehensive data catalogue for the Combined System Development Services of the Licensing Self-Certification Portal (LSCP) of the Buildings Department (BD). The system utilizes a dual-database architecture, incorporating MongoDB for operational data and Microsoft SQL Server (MSSQL) for transactional data. This catalogue details the structure, statistics, and key aspects of each database to facilitate understanding and management of the system's data assets.

The objective of this document is to provide an overview of the system by listing out in brief the database and data files.

# **2. Definitions**

| Terms | Definitions be sent | | createdPost | null, `

# **3. Data Architecture Overview**

The LSCP system employs a dual-database architecture designed for optimal performance and data integrity.

## MongoDB Database

MongoDB serves as the primary operational database, handling dynamic application data, user sessions, and day-to-day operations. Its flexible schema allows for evolving data structures and supports high-volume read operations.

**Key Statistics (as of 2025/3/4 10:10:39 AM):**

* Database Size: 88.10 MB
* Collections: 12
* Total Documents: 1,278,983
* Total Data Size: 371.24 MB

## MSSQL Database

Microsoft SQL Server serves as the transactional database, storing structured data related to applications, submissions, and system reference data. It provides robust data integrity, transaction support, and is named bd\_scs with schema dbo.

## Data Flow Between Systems

* MongoDB manages frontend operational data and user sessions.
* MSSQL stores backend transactional data and historical records.
* Data synchronization occurs through application services.
* Critical data is maintained in both systems with appropriate reconciliation mechanisms.

## Data Entity Relationships

The following diagram represents the high-level relationships between key entities across both databases:

+----------------+  
 | Users |  
 +----------------+  
 |  
 v  
+----------------+ +----------------+ +----------------+  
| Applications |<---------->| Cases |<---------->| Submissions |  
+----------------+ +----------------+ +----------------+  
 | | |  
 v v v  
+----------------+ +----------------+ +----------------+  
| Attachments | | Tasks | | Eminutes |  
+----------------+ +----------------+ +----------------+

# **4. Database Specifications**

This section provides detailed specifications for both databases used in the LSCP system, including collection/table structures, data types, and descriptions.

## 4.1 MongoDB Collections

MongoDB is used for operational data with the following collections:

### 4.1.1 tasks

**Collection Statistics**

* Document Count: 5,523
* Size: 0.99 MB
* Average Document Size: 0.18 KB

**Field Analysis**

| Field Name | Data Type | Occurrences | Description |
| --- | --- | --- | --- |
| \_\_v | objectId, int | 1000 | Version number |
| \_id | objectId | 1000 | Unique identifier |
| application | objectId | 998 | Reference to application |
| createdAt | date | 1000 | Creation timestamp |
| status | string | 1000 | Task status |
| submissionCase | objectId | 998 | Reference to submission case |
| taskType | string | 998 | Type of task |
| team | string | 835 | Team assigned to the task |
| user | string, objectId | 713 | User assigned to the task |

### 4.1.2 eminutes

**Collection Statistics**

* Document Count: 133
* Size: 0.03 MB
* Average Document Size: 0.24 KB

**Field Analysis**

| Field Name | Data Type | Occurrences | Description |
| --- | --- | --- | --- |
| \_\_v | int | 133 | Version number |
| \_id | objectId | 133 | Unique identifier |
| comment | string | 64 | Comment text |
| content | string | 133 | Main content |
| createdAt | date | 133 | Creation timestamp |
| efolio | string | 100 | Electronic folio reference |
| eminuteId | string | 133 | Minute identifier |
| from | objectId, string | 133 | Sender reference |
| status | string | 133 | Status of the minute |
| subject | string | 133 | Subject of the minute |
| submissionCase | objectId | 133 | Reference to submission case |
| sysFileRefId | string | 65 | System file reference ID |
| to | objectId, string | 129 | Recipient reference |

### 4.1.3 submissions

**Collection Statistics**

* Document Count: 0
* Size: 0.00 MB
* Average Document Size: 0.00 KB

**Note:** This collection exists but currently contains no documents.

### 4.1.4 applications

**Collection Statistics**

* Document Count: 381
* Size: 0.36 MB
* Average Document Size: 0.96 KB

**Field Analysis**

| Field Name | Data Type | Occurrences | Description

# **5. List of Tables**

| Table Name | Description