# Data Catalogue for Combined System Development Services for Licensing Self-Certification Portal of Buildings Department

**Version: 0.1**

**Jan 2025**

BDlogo

? 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.

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

| **Amendment History** |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Change Number | Revision Description | Pages Affected on Respective Version | Revision / Version Number | Date | Approval Reference |
| 1 | 1st draft | All | 0.1 | 16/01/2025 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**TABLE OF CONTENTS**

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

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

[**3. Database Overview**](#database-overview)

[**4. Data Entity Description**](#data-entity-description)

[**5. Equipment Configuration**](#equipment-configuration)

[5.1 Objective](#objective)

[5.1.1. [EntityNameHere]](#entitynamehere)

# 1. Introduction

This document provides a description of the data catalogue for the Combined System Development Services of the LSCP of the Buildings Department. It includes an overview of the database schema, collection statistics, field analysis, and definitions of key terms.

# 2. Definitions

| Terms | Definitions |
| --- | --- |
| BD | Buildings Department |
| LSCP | Licensing Self-Certification Portal |
| MC | Master Concept (Hong Kong) Limited |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# 3. Database Overview

This section provides an overview of the database schema, including database statistics and a summary of each collection.

## Database Analysis: bd

Last Updated: 2025/3/4 ??10:10:39

### Database Statistics

* Database Size: 88.10 MB
* Collections: 12
* Total Documents: 1278983
* Total Data Size: 371.24 MB

### Collections Overview

* tasks: 5523 documents, 0.99 MB
* eminutes: 133 documents, 0.03 MB
* submissions: 0 documents, 0.00 MB
* applications: 381 documents, 0.36 MB
* notifications: 1837 documents, 0.24 MB
* bsblocks: 98397 documents, 6.40 MB
* cases: 451 documents, 1.17 MB
* oauthtokens: 3019 documents, 2.29 MB
* sysfilerefs: 601808 documents, 204.70 MB
* attachments: 370 documents, 0.13 MB
* users: 116 documents, 0.04 MB
* adrblkfilerefs: 566948 documents, 154.89 MB

# 4. Data Entity Description

This section states all the entities in the LSCP Database.

The following section describes how the LSCP entities can be mapped onto physical data design.

* Entities list for LSCP Data

| **Item** | **Entity Name** | **Entity Description** |
| --- | --- | --- |
| 1 | tasks | Tasks related to applications and cases. |
| 2 | eminutes | Electronic minutes of meetings. |
| 3 | submissions | Application submissions. |
| 4 | applications | Application data. |
| 5 | notifications | System notifications. |
| 6 | bsblocks | Building Surveyor blocks. |
| 7 | cases | Cases related to applications. |
| 8 | oauthtokens | OAuth tokens for authentication. |
| 9 | sysfilerefs | System file references. |
| 10 | attachments | File attachments for applications and cases. |
| 11 | users | User accounts. |
| 12 | adrblkfilerefs | Address block file references. |

## Collection Details

The following sections provide detailed information about each collection in the database.

## ### Collection: tasks

#### Collection Statistics

* Document Count: 5523
* Size: 0.99 MB
* Average Document Size: 0.18 KB

#### Field Analysis

##### \_\_v

* Types: objectId, int

## Occurrences: 1000

##### \_id

* Types: objectId

## Occurrences: 1000

##### application

* Types: objectId

## Occurrences: 998

##### createdAt

* Types: date

## Occurrences: 1000

##### status

* Types: string

## Occurrences: 1000

##### submissionCase

* Types: objectId

## Occurrences: 998

##### taskType

* Types: string

## Occurrences: 998

##### team

* Types: string

## Occurrences: 835

##### user

* Types: string, objectId

## Occurrences: 713

## ### Collection: eminutes

#### Collection Statistics

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

#### Field Analysis

##### \_\_v

* Types: int

## Occurrences: 133

##### \_id

* Types: objectId

## Occurrences: 133

##### comment

* Types: string

## Occurrences: 64

##### content

* Types: string

## Occurrences: 133

##### createdAt

* Types: date

## Occurrences: 133

##### efolio

* Types: string

## Occurrences: 100

##### eminuteId

* Types: string

## Occurrences: 133

##### from

* Types: objectId, string

## Occurrences: 133

##### status

* Types: string

## Occurrences: 133

##### subject

* Types: string

## Occurrences: 133

##### submissionCase

* Types: objectId

## Occurrences: 133

##### sysFileRefId

* Types: string

## Occurrences: 65

##### to

* Types: objectId, string

## Occurrences: 129

## ### Collection: submissions

#### Collection Statistics

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

#### Field Analysis

## ### Collection: applications

#### Collection Statistics

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

#### Field Analysis

##### APP13

* Types: object, array

## Occurrences: 172

##### AddressOfPremiseCN

* Types: string

## Occurrences: 267

##### AddressOfPremiseCNFloor

* Types: string

## Occurrences: 147

##### AddressOfPremiseCNUnit

* Types: string

## Occurrences: 147

##### AddressOfPremiseEN

* Types: string

## Occurrences: 271

##### AddressOfPremiseENFloor

* Types: string

## Occurrences: 155

##### AddressOfPremiseENUnit

* Types: string

## Occurrences: 154

##### AgeOfStudent

* Types: null, string

## Occurrences: 328

##### ApplicantAddress

* Types: string

## Occurrences: 335

##### ApplicantEmail

* Types: string

## Occurrences: 289

##### ApplicantFax

* Types: string

## Occurrences: 21

##### ApplicantMobile

* Types: string

## Occurrences: 288

##### ApplicantName

* Types: string

## Occurrences: 189

##### ApplicantNameCN

* Types: string

## Occurrences: 28

##### ApplicantNameEN

* Types: null, string

## Occurrences: 148

##### ApplicantTel

* Types: null, string

## Occurrences: 307

##### ApplicationNo

* Types: null, string

## Occurrences: 381

##### ApplicationType

* Types: string

## Occurrences: 356

##### Area

* Types: string

## Occurrences: 28

##### BlockID

* Types: string

## Occurrences: 178

##### ContactPerson

* Types: string

## Occurrences: 95

##### ContactPersonCN

* Types: string

## Occurrences: 6

##### ContactPersonEN

* Types: string

## Occurrences: 6

##### ContactPersonEmail

* Types: string

## Occurrences: 6

##### ContactPersonTel

* Types: string

## Occurrences: 6

##### DescriptionOfSchool

* Types: string, null

## Occurrences: 329

##### District

* Types: string

## Occurrences: 33

##### EstimatedNoOfStudent

* Types: int, null

## Occurrences: 328

##### FileReference

* Types: string

## Occurrences: 35

##### NameOfSchoolCN

* Types: string

## Occurrences: 323

##### NameOfSchoolEN

* Types: string

## Occurrences: 350

##### Region

* Types: string

## Occurrences: 29

##### RelatedPremise

* Types: string

## Occurrences: 62

##### RelatedPremises

* Types: array

## Occurrences: 381

##### SelfCertification

* Types: object, null

## Occurrences: 65

##### StructuralCalculation

* Types: object

## Occurrences: 18

##### SubmissionType

* Types: string

## Occurrences: 187

##### \_\_v

* Types: int

## Occurrences: 381

##### \_id

* Types: objectId

## Occurrences: 381

##### address

* Types: object

## Occurrences: 69

##### assignedBS

* Types: objectId, string, null

## Occurrences: 364

##### assignedGR

* Types: objectId, null

## Occurrences: 64

##### assignedSBS

* Types: string, null

## Occurrences: 53

##### createdAt

* Types: date

## Occurrences: 381

##### updatedAt

* Types: date

## Occurrences: 194

## ### Collection: notifications

#### Collection Statistics

* Document Count: 1837
* Size: 0.24 MB
* Average Document Size: 0.13 KB

#### Field Analysis

##### \_\_v

* Types: int

## Occurrences: 1000

##### \_id

* Types: objectId

## Occurrences: 1000

##### createdAt

* Types: date

## Occurrences: 1000

##### eminute

* Types: objectId

## Occurrences: 58

##### notificationType

* Types: string

## Occurrences: 1000

##### requireSendEmail

* Types: bool

## Occurrences: 1000

##### task

* Types: objectId

## Occurrences: 942

##### user

* Types: string

## Occurrences: 991

## ### Collection: bsblocks

#### Collection Statistics

* Document Count: 98397
* Size: 6.40 MB
* Average Document Size: 0.07 KB

#### Field Analysis

##### \_\_v

* Types: int

## Occurrences: 1000

##### \_id

* Types: objectId

## Occurrences: 1000

##### bdgis

* Types: string

## Occurrences: 1000

##### blockId

* Types: string

## Occurrences: 1000

## ### Collection: cases

#### Collection Statistics

* Document Count: 451
* Size: 1.17 MB
* Average Document Size: 2.65 KB

#### Field Analysis

##### ActualReplyDate

* Types: null, date

## Occurrences: 39

##### Area

* Types: string

## Occurrences: 26

##### AuditResult

* Types: string

## Occurrences: 11

##### CaseOfficer

* Types: string

## Occurrences: 108

##### Category

* Types: string

## Occurrences: 384

##### District

* Types: string

## Occurrences: 37

##### FileReference

* Types: string

## Occurrences: 60

##### LAFileReference

* Types: object

## Occurrences: 17

##### Nature

* Types: null, string

## Occurrences: 382

##### ObjectiontoLR

* Types: string

## Occurrences: 12

##### ReceivedDate

* Types: date, null

## Occurrences: 375

##### Referrer

* Types: object

## Occurrences: 43

##### Region

* Types: string

## Occurrences: 32

##### Remarks

* Types: string

## Occurrences: 7

##### Reminders

* Types: array

## Occurrences: 55

##### SubmissionType

* Types: string

## Occurrences: 8

##### SubstantialReplyDate

* Types: null, date

## Occurrences: 42

##### TargetReplyDate

* Types: date, null

## Occurrences: 111

##### ThreeTierReqt

* Types: string

## Occurrences: 12

##### ViaSCS

* Types: bool

## Occurrences: 17

##### \_\_v

* Types: int

## Occurrences: 451

##### \_id

* Types: objectId

## Occurrences: 451

##### application

* Types: objectId

## Occurrences: 450

##### assignedBS

* Types: objectId

## Occurrences: 274

##### assignedGR

* Types: objectId

## Occurrences: 137

##### building\_information

* Types: object

## Occurrences: 14

##### caseDescription

* Types: object

## Occurrences: 9

##### caseOfficerReceive

* Types: string

## Occurrences: 172

##### caseOfficerReply

* Types: string

## Occurrences: 72

##### createdAt

* Types: date

## Occurrences: 451

##### deck\_study

* Types: object

## Occurrences: 451

##### documentChecklist

* Types: object

## Occurrences: 2

##### dv

* Types: object

## Occurrences: 197

##### frc

* Types: object

## Occurrences: 451

##### misc

* Types: object

## Occurrences: 451

##### moe

* Types: object

## Occurrences: 451

##### seniorCaseOfficerReceive

* Types: string

## Occurrences: 54

##### seniorCaseOfficerReply

* Types: string

## Occurrences: 41

##### site\_inspection

* Types: object

## Occurrences: 7

##### structural\_ccc\_bs

* Types: object

## Occurrences: 451

##### structural\_schnlh

* Types: object

## Occurrences: 152

##### structural\_schnlhkinds

* Types: object

## Occurrences: 301

##### team

* Types: string

## Occurrences: 374

##### ubw

* Types: object

## Occurrences: 451

##### updatedAt

* Types: date

## Occurrences: 16

## ### Collection: oauthtokens

#### Collection Statistics

* Document Count: 3019
* Size: 2.29 MB
* Average Document Size: 0.78 KB

#### Field Analysis

##### \_\_v

* Types: int

## Occurrences: 1000

##### \_id

* Types: objectId

## Occurrences: 1000

##### accessToken

* Types: string

## Occurrences: 1000

##### accessTokenExpiresAt

* Types: date

## Occurrences: 1000

##### client

* Types: object

## Occurrences: 1000

##### refreshToken

* Types: string

## Occurrences: 1000

##### refreshTokenExpiresAt

* Types: date

## Occurrences: 1000

##### user

* Types: objectId

## Occurrences: 1000

## ### Collection: sysfilerefs

#### Collection Statistics

* Document Count: 601808
* Size: 204.70 MB
* Average Document Size: 0.35 KB

#### Field Analysis

##### \_\_v

* Types: int

## Occurrences: 1000

##### \_id

* Types: objectId

## Occurrences: 1000

##### createdDt

* Types: date

## Occurrences: 1000

##### createdName

* Types: null, string

## Occurrences: 1000

##### createdPost

* Types: null, string

## Occurrences: 1000

##### createdSection

* Types: null, string

## Occurrences: 1000

##### display

* Types: string

## Occurrences: 1000

##### dvExceed

* Types: null, string

## Occurrences: 1000

##### dvStatusDt

* Types: null, date

## Occurrences: 1000

##### frefPref

* Types: string, null

## Occurrences: 1000

##### frefSeq

* Types: null, string

## Occurrences: 1000

##### frefSuf

* Types: null, string

## Occurrences: 1000

##### frefYr

* Types: null, string

## Occurrences: 1000

##### lastModifiedDt

* Types: date

## Occurrences: 1000

##### lastModifiedName

* Types: null, string

## Occurrences: 1000

##### lastModifiedPost

* Types: null, string

## Occurrences: 1000

##### lastModifiedSection

* Types: null

## Occurrences: 1000

##### sysFileRefId

* Types: string

## Occurrences: 1000

## ### Collection: attachments

#### Collection Statistics

* Document Count: 370
* Size: 0.13 MB
* Average Document Size: 0.37 KB

#### Field Analysis

##### \_\_v

* Types: int

## Occurrences: 370

##### \_id

* Types: objectId

## Occurrences: 370

##### application

* Types: objectId

## Occurrences: 364

##### createdAt

* Types: date

## Occurrences: 370

##### efolio

* Types: null, string

## Occurrences: 351

##### file

* Types: object, string

## Occurrences: 247

##### filePartNo

* Types: string

## Occurrences: 216

##### receivedDate

* Types: date

## Occurrences: 352

##### remarks

* Types: string

## Occurrences: 216

##### subType

* Types: string

## Occurrences: 203

##### submissionCase

* Types: objectId

## Occurrences: 350

##### sysFileRefId

* Types: string

## Occurrences: 67

##### type

* Types: string

## Occurrences: 348

##### updatedAt

* Types: date

## Occurrences: 3

## ### Collection: users

#### Collection Statistics

* Document Count: 116
* Size: 0.04 MB
* Average Document Size: 0.39 KB

#### Field Analysis

##### \_\_v

* Types: int

## Occurrences: 116

##### \_id

* Types: objectId

## Occurrences: 116

##### bdgis

* Types: string

## Occurrences: 29

##### begis

* Types: string

## Occurrences: 1

##### delegateTo

* Types: string

## Occurrences: 8

##### department

* Types: string

## Occurrences: 116

##### email

* Types: string

## Occurrences: 109

##### group

* Types: string

## Occurrences: 17

##### lastLoginAt

* Types: date

## Occurrences: 41

##### letterLongPosition

* Types: string

## Occurrences: 11

##### letterLongPositionCn

* Types: string

## Occurrences: 12

##### letterName

* Types: string

## Occurrences: 76

##### letterNameCn

* Types: string

## Occurrences: 75

##### letterPosition

* Types: string

## Occurrences: 79

##### letterPositionCn

* Types: string

## Occurrences: 1

##### lock

* Types: bool

## Occurrences: 116

##### luPostName

* Types: string

## Occurrences: 78

##### name

* Types: string

## Occurrences: 80

##### notificationEmail

* Types: string

## Occurrences: 23

##### osdpEmail

* Types: string

## Occurrences: 62

##### osdpLoginId

* Types: string

## Occurrences: 102

##### password

* Types: string

## Occurrences: 108

##### phoneNumber

* Types: string

## Occurrences: 65

##### position

* Types: string

## Occurrences: 85

##### role

* Types: string

## Occurrences: 112

##### team

* Types: string

## Occurrences: 52

##### userType

* Types: string

## Occurrences: 116

## ### Collection: adrblkfilerefs

#### Collection Statistics

* Document Count: 566948
* Size: 154.89 MB
* Average Document Size: 0.28 KB

#### Field Analysis

##### \_\_v

* Types: int

## Occurrences: 1000

##### \_id

* Types: objectId

## Occurrences: 1000

##### adrBlkFileRefId

* Types: string

## Occurrences: 1000

##### adrBlkId

* Types: string

## Occurrences: 1000

##### createdDt

* Types: date

## Occurrences: 1000

##### createdName

* Types: null, string

## Occurrences: 1000

##### createdPost

* Types: string

## Occurrences: 1000

##### createdSection

* Types: null, string

## Occurrences: 1000

##### lastModifiedDt

* Types: date

## Occurrences: 1000

##### lastModifiedName

* Types: null, string

## Occurrences: 1000

##### lastModifiedPost

* Types: string

## Occurrences: 1000

##### lastModifiedSection

* Types: string, null

## Occurrences: 1000

##### sysFileRefId

* Types: string

## Occurrences: 1000

# 5. Equipment Configuration

This section is to package all of the details related to data items in physical including Data Item, description, format and storage length so as to ensure that data item details are maintained centrally.

The following tables describe the data items for each database table in the physical design. The explanation for columns is as follows.

Database-level validation is not utilized in MS SQL. Instead, all validations have been implemented on the server side within the code behind.

**Entity Name** - Name of database object

**Description** - Description of entity

**Field Name** - Name of object attributes

**Field Format** - Type of the data item:

BIGINT:

The BIGINT data type is used to store larger integer value. e.g. from -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807.

NVARCHAR:

The NVARCHAR data type stores character data in a variable-length field.

DATETIME2:

"DATETIME2" data type is used to store date and time values.

UNIQUEIDENTIFIER:

A column or local variable of unique identifier data type can be initialized to a value.

BIT:

BIT data type is used to represent a Boolean value.

**Field Length** - Specify the max number of characters of string field

**Mandatory** - Specify if the data item is mandatory. ?Y? if true.

**Primary Key** - Indicates if data item is part of the Primary Key

**Foreign Key** - Indicates if data item is part of the Foreign Key

## 5.1 Objective

Name Space: LSCP

Description: LSCP Data Storage

Storage Location: TBC

File Name: TBC

### 5.1.1. [EntityNameHere]

Entity Name: (To be populated based on entity)

Description: (To be populated based on entity)

| **Field Name** | **Description** | **Field Format** | **Field Length** | **Mandatory** | **Primary Key** | **Foreign Key** |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |