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

**Version: 0.1**

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? The Government of the Hong Kong Special Administrative Region

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## 1. Introduction

This document provides a description of data catalogue of the Combined System Development Services of the LSCP of the Buildings Department.

## 2. Definitions

| Terms | Definitions |
| --- | --- |
| BD | Buildings Department |
| LSCP | Licensing Self-Certification Portal |
| MC | Master Concept (Hong Kong) Limited |
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## 3. 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 the application process. |
| 2 | eminutes | Electronic minutes of meetings. |
| 3 | submissions | Application submissions. |
| 4 | applications | Application details. |
| 5 | notifications | Notifications related to applications. |
| 6 | bsblocks | Building Survey blocks information. |
| 7 | cases | Case details related to applications. |
| 8 | oauthtokens | OAuth tokens for authentication. |
| 9 | sysfilerefs | System file references. |
| 10 | attachments | Attachments related to applications. |
| 11 | users | User information. |
| 12 | adrblkfilerefs | Address block file references. |

## 4. 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

### 4.1 Objective

* Name Space: LSCP
* Description: LSCP Data Storage
* Storage Location: TBC
* File Name: TBC

#### 4.1.1. EntityNameHere

* Entity Name:
* Description:

| **Field Name** | **Description** | **Field Format** | **Field Length** | **Mandatory** | **Primary Key** | **Foreign Key** |
| --- | --- | --- | --- | --- | --- | --- |
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## 5. Database Analysis: bd

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### 5.1 Database Statistics

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

### 5.2 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

### 5.3 Collection Details

#### 5.3.1 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

#### 5.3.2 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

#### 5.3.3 Collection: submissions

##### Collection Statistics

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

##### Field Analysis

#### 5.3.4 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

#### 5.3.5 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

#### 5.3.6 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

#### 5.3.7 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

#### 5.3.8 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

#### 5.3.9 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

#### 5.3.10 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

#### 5.3.11 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

#### 5.3.12 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