# Data Manual 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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BDlogo

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## 1. Introduction

This document provides a description of the 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. Database Analysis

This section provides an overview of the database schema and statistics. The database name is bd.

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### 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

### Collection Details

The following sections detail each collection within the bd database, including statistics and field analysis.

#### 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

(No fields to analyze as the collection is empty)

#### 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

## 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 | Stores tasks related to applications and submissions. |
| 2 | eminutes | Stores electronic minutes of meetings. |
| 3 | submissions | Stores application submissions. |
| 4 | applications | Stores application data. |
| 5 | notifications | Stores notifications related to tasks and eminutes. |
| 6 | bsblocks | Stores building blocks information. |
| 7 | cases | Stores case information. |
| 8 | oauthtokens | Stores OAuth tokens for authentication. |
| 9 | sysfilerefs | Stores system file references. |
| 10 | attachments | Stores attachments related to applications and submissions. |
| 11 | users | Stores user information. |
| 12 | adrblkfilerefs | Stores address block file references. |

## 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: tasks

Description: Stores tasks related to applications and submissions.

| **Field Name** | **Description** | **Field Format** | **Field Length** | **Mandatory** | **Primary Key** | **Foreign Key** |
| --- | --- | --- | --- | --- | --- | --- |
| \_\_v | Version | int |  |  |  |  |
| \_id | Task ID | objectId |  | Y | Y |  |
| application | Application ID | objectId |  |  |  | Y |
| createdAt | Creation Date | date |  | Y |  |  |
| status | Task Status | string |  | Y |  |  |
| submissionCase | Submission Case ID | objectId |  |  |  | Y |
| taskType | Task Type | string |  | Y |  |  |
| team | Assigned Team | string |  |  |  |  |
| user | Assigned User | string, objectId |  |  |  | Y |

Entity Name: eminutes

Description: Stores electronic minutes of meetings.

| **Field Name** | **Description** | **Field Format** | **Field Length** | **Mandatory** | **Primary Key** | **Foreign Key** |
| --- | --- | --- | --- | --- | --- | --- |
| \_\_v | Version | int |  |  |  |  |
| \_id | Eminute ID | objectId |  | Y | Y |  |
| comment | Comment | string |  |  |  |  |
| content | Content | string |  | Y |  |  |
| createdAt | Creation Date | date |  | Y |  |  |
| efolio | Efolio | string |  |  |  |  |
| eminuteId | Eminute ID | string |  | Y |  |  |
| from | From User | objectId, string |  | Y |  | Y |
| status | Status | string |  | Y |  |  |
| subject | Subject | string |  | Y |  |  |
| submissionCase | Submission Case ID | objectId |  | Y |  | Y |
| sysFileRefId | System File Ref ID | string |  |  |  |  |
| to | To User | objectId, string |  |  |  | Y |

Entity Name: submissions

Description: Stores application submissions.

| **Field Name** | **Description** | **Field Format** | **Field Length** | **Mandatory** | **Primary Key** | **Foreign Key** |
| --- | --- | --- | --- | --- | --- | --- |
| (No fields to analyze as the collection is empty) |  |  |  |  |  |  |

Entity Name: applications

Description: Stores application data.

| **Field Name** | **Description** | **Field Format** | **Field Length** | **Mandatory** | **Primary Key** | **Foreign Key** |
| --- | --- | --- | --- | --- | --- | --- |
| APP13 | APP13 | object, array |  |  |  |  |
| AddressOfPremiseCN | Address of Premise (CN) | string |  |  |  |  |
| AddressOfPremiseCNFloor | Address of Premise Floor (CN) | string |  |  |  |  |
| AddressOfPremiseCNUnit | Address of Premise Unit (CN) | string |  |  |  |  |
| AddressOfPremiseEN | Address of Premise (EN) | string |  |  |  |  |
| AddressOfPremiseENFloor | Address of Premise Floor (EN) | string |  |  |  |  |
| AddressOfPremiseENUnit | Address of Premise Unit (EN) | string |  |  |  |  |
| AgeOfStudent | Age of Student | null, string |  |  |  |  |
| ApplicantAddress | Applicant Address | string |  |  |  |  |
| ApplicantEmail | Applicant Email | string |  |  |  |  |
| ApplicantFax | Applicant Fax | string |  |  |  |  |
| ApplicantMobile | Applicant Mobile | string |  |  |  |  |
| ApplicantName | Applicant Name | string |  |  |  |  |
| ApplicantNameCN | Applicant Name (CN) | string |  |  |  |  |
| ApplicantNameEN | Applicant Name (EN) | null, string |  |  |  |  |
| ApplicantTel | Applicant Tel | null, string |  |  |  |  |
| ApplicationNo | Application No | null, string |  |  |  |  |
| ApplicationType | Application Type | string |  |  |  |  |
| Area | Area | string |  |  |  |  |
| BlockID | Block ID | string |  |  |  |  |
| ContactPerson | Contact Person | string |  |  |  |  |
| ContactPersonCN | Contact Person (CN) | string |  |  |  |  |
| ContactPersonEN | Contact Person (EN) | string |  |  |  |  |
| ContactPersonEmail | Contact Person Email | string |  |  |  |  |
| ContactPersonTel | Contact Person Tel | string |  |  |  |  |
| DescriptionOfSchool | Description of School | string, null |  |  |  |  |
| District | District | string |  |  |  |  |
| EstimatedNoOfStudent | Estimated No. of Student | int, null |  |  |  |  |
| FileReference | File Reference | string |  |  |  |  |
| NameOfSchoolCN | Name of School (CN) | string |  |  |  |  |
| NameOfSchoolEN | Name of School (EN) | string |  |  |  |  |
| Region | Region | string |  |  |  |  |
| RelatedPremise | Related Premise | string |  |  |  |  |
| RelatedPremises | Related Premises | array |  |  |  |  |
| SelfCertification | Self Certification | object, null |  |  |  |  |
| StructuralCalculation | Structural Calculation | object |  |  |  |  |
| SubmissionType | Submission Type | string |  |  |  |  |
| \_\_v | Version | int |  |  |  |  |
| \_id | Application ID | objectId |  | Y | Y |  |
| address | Address | object |  |  |  |  |
| assignedBS | Assigned BS | objectId, string, null |  |  |  | Y |
| assignedGR | Assigned GR | objectId, null |  |  |  | Y |
| assignedSBS | Assigned SBS | string, null |  |  |  |  |
| createdAt | Creation Date | date |  | Y |  |  |
| updatedAt | Update Date | date |  |  |  |  |

Entity Name: notifications

Description: Stores notifications related to tasks and eminutes.

| **Field Name** | **Description** | **Field Format** | **Field Length** | **Mandatory** | **Primary Key** | **Foreign Key** |
| --- | --- | --- | --- | --- | --- | --- |
| \_\_v | Version | int |  |  |  |  |
| \_id | Notification ID | objectId |  | Y | Y |  |
| createdAt | Creation Date | date |  | Y |  |  |
| eminute | Eminute ID | objectId |  |  |  | Y |
| notificationType | Notification Type | string |  | Y |  |  |
| requireSendEmail | Require Send Email | bool |  | Y |  |  |
| task | Task ID | objectId |  |  |  | Y |
| user | User ID | string |  | Y |  | Y |

Entity Name: bsblocks

Description: Stores building blocks information.

| **Field Name** | **Description** | **Field Format** | **Field Length** | **Mandatory** | **Primary Key** | **Foreign Key** |
| --- | --- | --- | --- | --- | --- | --- |
| \_\_v | Version | int |  |  |  |  |
| \_id | Block ID | objectId |  | Y | Y |  |
| bdgis | BDGIS | string |  | Y |  |  |