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| **Database Specifications**   |  |  |  | | --- | --- | --- | | Version | : | 1.0 | | Status | : | Final | | Date | : | June 29, 2023 | |

This document is only released as IEK

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# Internal-Engine-Kit

## Introduction

* This database design document describes the database structure and table definitions of the IEK (Internal-engine-kit) system.
* IEK is a system used for managing locators, generators, and converters.
* The document provides detailed information on the three tables in the IEK system: IEK\_LOCATOR, IEK\_GENERATOR, and IEK\_CONVERTER.
* Each table is described with its column definitions, data types, constraints, and descriptions.

## 2. Database description

### 2.1 IEK\_LOCATOR Table

This table is used to store locator information.

| Column Name | Data Type | Constraints | Description |
| --- | --- | --- | --- |
| id | INTEGER | PRIMARY KEY | Locator ID |
| bizz | VARCHAR(36) | NOT NULL | Business identification |
| title | VARCHAR(20) | NOT NULL | System title |
| website | VARCHAR(100) | NOT NULL | System URL |
| account | VARCHAR(100) | NOT NULL | User account |
| hex\_secret | VARCHAR(150) | NOT NULL | Account secret in hex format |
| remark | VARCHAR(255) |  | Remark |
| is\_active | CHAR(1) | NOT NULL, CHECK (is\_active IN (‘Y’, ‘N’)) | Is Active indicator |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Created timestamp |
| updated\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Updated timestamp |

### 2.2 IEK\_GENERATOR Table

This table is used to store generator information.

| Column Name | | Data Type | | Constraints | Description |
| --- | --- | --- | --- | --- | --- |
| id | INTEGER | | PRIMARY KEY | | Generator ID |
| bizz | VARCHAR(36) | | NOT NULL | | Business identification |
| topic | VARCHAR(20) | | NOT NULL | | Generator name |
| attribute | VARCHAR(20) | | NOT NULL | | Generator type |
| source | LONGTEXT | |  | | Generator input |
| expect | LONGTEXT | |  | | Generator output |
| remark | VARCHAR(255) | |  | | Remark |
| is\_active | CHAR(1) | | NOT NULL, CHECK (is\_active IN (‘Y’, ‘N’)) | | Is Active indicator |
| created\_at | TIMESTAMP | | DEFAULT CURRENT\_TIMESTAMP | | Created timestamp |
| updated\_at | TIMESTAMP | | DEFAULT CURRENT\_TIMESTAMP | | Updated timestamp |

### 2.3 IEK\_CONVERTER Table

This table is used to store converter information.

| Column Name | | Data Type | | Constraints | Description |
| --- | --- | --- | --- | --- | --- |
| id | INTEGER | | PRIMARY KEY | | Generator ID |
| bizz | VARCHAR(36) | | NOT NULL | | Business identification |
| topic | VARCHAR(20) | | NOT NULL | | Generator name |
| attribute | VARCHAR(20) | | NOT NULL | | Generator type |
| source | LONGTEXT | |  | | Generator input |
| expect | LONGTEXT | |  | | Generator output |
| remark | VARCHAR(255) | |  | | Remark |
| is\_active | CHAR(1) | | NOT NULL, CHECK (is\_active IN (‘Y’, ‘N’)) | | Is Active indicator |
| created\_at | TIMESTAMP | | DEFAULT CURRENT\_TIMESTAMP | | Created timestamp |
| updated\_at | TIMESTAMP | | DEFAULT CURRENT\_TIMESTAMP | | Updated timestamp |

## 3. Database Schema

### 3.1 Generic SQL

IEK\_LOCATOR

|  |
| --- |
| CREATE TABLE IEK\_LOCATOR (  id INTEGER PRIMARY KEY,  bizz VARCHAR(36) NOT NULL COMMENT 'Business identification',  title VARCHAR(20) NOT NULL COMMENT 'System title',  website VARCHAR(100) NOT NULL COMMENT 'System url',  account VARCHAR(100) NOT NULL COMMENT 'User account',  hex\_secret VARCHAR(150) NOT NULL COMMENT 'Account secret',  remark VARCHAR(255) COMMENT 'Remark',  is\_active CHAR(1) NOT NULL CHECK (is\_active IN ('Y', 'N')) COMMENT 'Is Active',  created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP COMMENT 'Created At',  updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP COMMENT 'Updated At'  ); |

IEK\_GENERATOR

|  |
| --- |
| CREATE TABLE IEK\_GENERATOR (  id INTEGER PRIMARY KEY,  bizz VARCHAR(36) NOT NULL COMMENT 'Business identification',  topic VARCHAR(20) NOT NULL COMMENT 'Generator name',  attribute VARCHAR(20) NOT NULL COMMENT 'Generator tyoe',  source LONGTEXT COMMENT 'Generator input',  expect LONGTEXT COMMENT 'Generator output',  remark VARCHAR(255) COMMENT 'Remark',  is\_active CHAR(1) NOT NULL CHECK (is\_active IN ('Y', 'N')) COMMENT 'Is Active',  created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP COMMENT 'Created At',  updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP COMMENT 'Updated At'  ); |

IEK\_CONVERTER

|  |
| --- |
| CREATE TABLE IEK\_CONVERTER (  id INTEGER PRIMARY KEY,  bizz VARCHAR(36) NOT NULL COMMENT 'Business identification',  topic VARCHAR(20) NOT NULL COMMENT 'Converter name',  attribute VARCHAR(20) NOT NULL COMMENT 'Converter tyoe',  source LONGTEXT COMMENT 'Converter input',  expect LONGTEXT COMMENT 'Converter output',  remark VARCHAR(255) COMMENT 'Remark',  is\_active CHAR(1) NOT NULL CHECK (is\_active IN ('Y', 'N')) COMMENT 'Is Active',  created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP COMMENT 'Created At',  updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP COMMENT 'Updated At'  ); |

### 3.2 SQLite SQL

IEK\_LOCATOR

|  |
| --- |
| CREATE TABLE IEK\_LOCATOR (  id INTEGER PRIMARY KEY,  bizz VARCHAR(36) NOT NULL,  title VARCHAR(20) NOT NULL,  website VARCHAR(100) NOT NULL,  account VARCHAR(100) NOT NULL,  hex\_secret VARCHAR(150) NOT NULL,  remark VARCHAR(255),  is\_active CHAR(1) NOT NULL CHECK (is\_active IN ('Y', 'N')),  created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP  ); |

IEK\_GENERATOR

|  |
| --- |
| CREATE TABLE IEK\_GENERATOR (  id INTEGER PRIMARY KEY,  bizz VARCHAR(36) NOT NULL,  topic VARCHAR(20) NOT NULL,  attribute VARCHAR(20) NOT NULL,  source LONGTEXT,  expect LONGTEXT,  remark VARCHAR(255),  is\_active CHAR(1) NOT NULL CHECK (is\_active IN ('Y', 'N')),  created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP  ); |

IEK\_CONVERTER

|  |
| --- |
| CREATE TABLE IEK\_CONVERTER (  id INTEGER PRIMARY KEY,  bizz VARCHAR(36) NOT NULL,  topic VARCHAR(20) NOT NULL,  attribute VARCHAR(20) NOT NULL,  source LONGTEXT,  expect LONGTEXT,  remark VARCHAR(255),  is\_active CHAR(1) NOT NULL CHECK (is\_active IN ('Y', 'N')),  created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,  updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP  ); |