**BioStar 2**

**Database Table**

**Version 2.6.0**

**Video Extension**



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# **Revision Note**

## BioStar 2.6

* Video is supported in MSSQL DB
* RC\_SP, space\_rate\_to\_alert, record\_mode added in SYSTEMSETTING table

## BioStar 2.5

 - Video is supported in Maria DB

## Highlight index

|  |  |
| --- | --- |
| Added Version | Color |
| BioStar 2.6 |  |

# **Cautions**

## Generic Cautions

1. **Isolation Level**
If **tx\_isolation** in Maria DB’s Global/Session variable is **REPEATABLE READ** avoid using INSERT INTO ~, SELECT ~, CREATEA TABLE AS ~ SELECT ~
	1. Alternative: Configure and use **tx\_isolation** as **READ UNCOMMITTED** or **READ COMMITTED**.
	2. Reference: [Isolation Level](https://mariadb.com/kb/en/mariadb/set-transaction/#isolation-level)
2. **Multiple Sessions**
Avoid using REPLACE INTO ~ with multiple DB sessions. The REPLACE INTO ~ operation executes two operations of DELETE ~ and INSERT INTO ~ as one operation and when this status is linked with the isolation level mentioned above, a dead-lock may occur.
	1. Alternative: Use INSERT INTO ~ ON DUPLICATE KEY UPDATE ~
	2. Reference 1: [Replace](https://mariadb.com/kb/en/mariadb/replace/)
	3. Reference 2: [INSERT on duplicate key update](https://mariadb.com/kb/en/mariadb/insert-on-duplicate-key-update/)
3. **Self-reference**
Self-reference should not be used if possible when executing an update or insert query. If a self-referencing SELECT statement is included in an update or insert query, many locks will be held which may lead to performance decrease. Furthermore, a reference to a table with a foreign key constraint may also provide a similar result as a self-reference.
	1. Example 1: UPDATE T\_USR SET NM = (SELECT NM FROM T\_USR WHERE USRID = '1111');
	2. Example 2: INSERT INTO T\_USR (A, B, C, D) SELECT 'a', 'b', 'c', D FROM T\_USR;
4. **Transactions**
Transactions (batch jobs) should be held shortly as possible unless it is an insert and update execution for a large number of rows.
5. **DDL Usage**

DDL usage within a transaction will execute an implicit commit which may result in unintended results. (Rollback is not possible)

* 1. Reference 1: [SQL statements That Cause an Implicit Commit](https://mariadb.com/kb/en/mariadb/sql-statements-that-cause-an-implicit-commit/)

## BioStar 2 Database Related Cautions

1. **Allowed Tables**

Usage of any other table not included in the Table Information section of this document is not allowed.

1. **Auto Sync Tables**

There is two kind of table which Synchronized with BioStar. Or not

1. COL-SETTING, EVENTSYNC, IPCAMERA, NVR, RCDPTH, RECORDLOG, TR\_EVT are not sync data.
2. Lest data is sync data or not allowed.

# **Table Information**

**[CAUTION]** : Please do **NOT** manually modify any INTERNAL data in your database.

## **COL\_SETTING** : Column Setting for List UI

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | UNSIGNED INT | PK | Unique ID (***INTERNAL***) |
| CK | TINYINT |  | Show / Hide = 1 / 0 |
| KEY | VARCHAR(255) |  | Message Text or Message Key for UI |
| MSG\_DB | TINYINT |  | Message Key Mode for Key field – Boolean1: KEY field is message key0: KEY field is message text |
| INDEX | INT |  | Order on UI List |
| WIDTH | INT |  | Column Width |
| LT\_NE | VARCHAR(10) |  | List Name for Distinguish Target List on UI |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| USER\_ID | VARCHAR(255) |  | User ID of this setting |

## **DEVICE** : Devices

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | VARCHAR(255) | PK | Unique Device ID |
| NAME | VARCHAR(255) |  | Name |
| IP\_ADDRESS | VARCHAR(50) |  | IP address |
| TYPE | VARCHAR(40) |  | Device Type |
| STATUS\_CODE | VARCHAR(10) |  | Status Code = AC (active)/IN (inactive) |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| DG\_ID | INT |  | Device Group ID That this device belongs to1: global2: Not null |
| PDV\_ID | VARCHAR(255) |  | Parent Device ID That this device belongs toNot null |

## **DEVICEGROUP** : Device Group

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | UNSIGNED INT | PK | Unique Device ID |
| NAME | VARCHAR(255) |  | Name |
| DEPTH | INT |  | Device Group Tree Depth Level0: All Devices1~: depth |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| PDG\_ID | UNSIGNED INT |  | Parent Device Group ID of this group |

## **DOOR**: Door

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | UNSIGNED INT | PK | Unique Door ID |
| NAME | VARCHAR(255) |  | Name |
| STATUS\_CODE | VARCHAR(10) |  | Status Code = AC (active)/IN (inactive) |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| DG\_ID | UNSIGNED INT |  | Door Group ID of this Door |
| ENTRY\_DEVICE\_ID | VARCHAR(255) |  | Entry Device ID on this Door |
| EXIT\_DEVICE\_ID | VARCHAR(255) |  | Exit Device ID on this Door |
| RELAY\_DEVICE\_ID | VARCHAR(255) |  | Relay Device ID on this Door |
| SENSOR\_DEVICE\_ID | VARCHAR(255) |  | Sensor Device ID on this Door |
| BUTTON\_DEVICE\_ID | VARCHAR(255) |  | Button Device ID on this Door |

## **DOORGROUP** : Door Group

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | UNSIGNED INT | PK | Unique Door ID |
| NAME | VARCHAR(255) |  | Name |
| DEPTH | INT |  | Door Group Tree Depth Level |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| PDG\_ID | UNSIGNED INT |  | Parent Door Group ID of this group |

## **EVENTLOG** : Event Log

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | UNSIGNED BIGINT(20) | PK | Unique ID |
| DV\_DT | DATETIME |  | Date/time from Device |
| DV\_ID | VARCHAR(255) |  | Device ID |
| DR\_ID | INT |  | Door ID |
| CH\_ID | INT |  | NVR Channel ID |
| BS\_EVT\_CD | INT |  | BioStar Event Code |
| BS\_EVT\_ID | INT |  | BioStar Event ID |
| BS\_EVT\_DT | DATETIME |  | BioStar Event Date/Time |
| USER\_ID | VARCHAR(255) |  | User ID |
| BS\_EVT\_M | VARCHAR(10) |  | Month of BioStar Event |
| BS\_EVT\_LI | INT |  | Index of BioStar Event |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |

## **EVENTSYNC** : Event Type

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | INT(11) | PK | Unique Event Sync ID |
| ST\_DT | DATETIME |  | Event Sync Start Time |
| END\_DT | DATETIME |  | Event Sync End Time |
| EMPTY\_RUN\_COUNT | INT(11) |  | Count for Search request result empty |
| LAST\_QUERY\_END\_DT | DATETIME |  | Date/time of last search request |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| DV\_ID | VARCHAR(255) |  | Device id of this event sync |

## **EVENTTYPE** : Event Type

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| CODE | INT(11) UNSIGNED | PK | Unique ID |
| NAME | VARCHAR(50) |  | name |
| DESCRIPTION | VARCHAR(255) |  | Description |
| STATUS\_CODE | VARCHAR(10) |  | Status Code = AC (active)/IN (inactive) |
| ALERTABLE | TINYINT(1) |  | Is set alert mode as boolean |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |

## **HOLIDAY** : Holiday Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | INT(11) UNSIGNED | PK | Unique ID |
| NAME | VARCHAR(50) |  | Name |
| DSCR | TEXT |  | Description |
| BIOSTAR\_ID | INT(11) |  | Holiday ID from BioStar |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |

## **HOLIDAYDATE** : Holiday Schedule Date Information

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | INT(11) UNSIGNED | PK | Unique ID |
| REPETITION\_TYPE | VARCHAR(30) |  | Repetition type of holiday |
| DATE | VARCHAR(30) |  | Holiday Date |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| HOLIDAY\_ID | INT(11) UNSIGNED |  | Holiday Schedule ID |

## **TSHOLIDAYTIMESEGMENT** : Time Segments of Holiday Schedule Date Information

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| START\_TIME | INT(11) |  | Start Time of time segment |
| END\_TIME | INT(11) |  | End Time of time segment |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| TSID | INT(11) UNSIGNED |  | Time Schedule ID of this |

## **IPCAMERA** : IP Camera

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | INT(11) UNSIGNED | PK | Unique ID |
| NAME | VARCHAR(255) |  | Name  |
| CHANNEL | INT(4) UNSIGNED |  | NVR Channel ID of this |
| IP\_ADDRESS | VARCHAR(50) |  | IP Address |
| LOG\_TYPE | VARCHAR(10) |  | Video/Snapshot |
| VIDEO\_LOG\_FROM\_SEC | INT(4) UNSIGNED |  | Recording video start-time from Event occurs |
| VIDEO\_LOG\_TO\_SEC | INT(4) UNSIGNED |  | Recording video end-time from Event occurs |
| IMAGE\_LOG\_SEC | INT(11) |  | Record at this(seconds) from Event occurs |
| OFF\_COVER\_HOUR | INT(11) |  | TDB |
| STREAM\_PROFILE | INT(11) |  | TDB |
| STREAM\_PROFILE\_NM | VARCHAR(255) |  | TDB |
| STATUS\_CODE | VARCHAR(10) |  | Status Code = AC (active)/IN (inactive) |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| NVR\_ID | INT(11) UNSIGNED |  | NVR ID of NVR of This |
| DR\_ID | INT(11) UNSIGNED |  | Door ID of Door That this belongs to |

## **NVR** : NVR

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | INT(11) UNSIGNED | PK | Unique ID |
| MAKE | VARCHAR(255) |  | NVR Make |
| NAME | VARCHAR(255) |  | Name |
| IP\_ADDRESS | VARCHAR(50) |  | IP Address |
| PORT | INT(10) UNSIGNED |  | IP Port |
| LOGIN\_USER\_ID | VARCHAR(255) |  | Login ID for NVR |
| LOGIN\_PASSWORD | VARCHAR(255) |  | Password for NVR |
| LOG\_TYPE | VARCHAR(10) |  | Default Record type for Child IP Cameras, values Video/Snapshot |
| VIDEO\_LOG\_FROM\_SEC | INT(4) UNSIGNED |  | Default Video Record Start time from Event time |
| VIDEO\_LOG\_TO\_SEC | INT(4) UNSIGNED |  | Default Video Record End time from Event time |
| IMAGE\_LOG\_SEC | INT(4) |  | Default Snapshot time from Event time |
| STATUS\_CODE | VARCHAR(10) |  | Status Code = AC (active)/IN (inactive) |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |

## **RCDPTH** : Record Path

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | BIGINT(20) UNSIGNED | PK | Unique ID |
| PATH | VARCHAR(255) |  | Path String of storage |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |

## **RECORDLOG** : Record Log

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | BIGINT(20) UNSIGNED | PK | Unique ID |
| NVR\_ID | INT(11) UNSIGNED |  | NVR ID of this Record |
| CHANNEL\_NO | TINYINT(4) UNSIGNED |  | NVR Channel ID of this Record |
| REQ\_ID | BIGINT(20) UNSIGNED |  | Request ID which indicate Event log (eventlog table ID) |
| EVT\_CD | INT(11) UNSIGNED |  | Event code (eventtype table CODE) |
| DL | CHAR(1) |  | Storage Drive Letter (if set zero, deleted file) |
| REC\_FILE | VARCHAR(255) |  | Record file name |
| REC\_FILE\_SIZE | BIGINT(11)  |  | Record file size |
| REC\_FILE\_DT | DATETIME |  | Record file date/time |
| TMB\_FILE | VARCHAR(255) |  | Thumbnail file name |
| TMB\_FILE\_SIZE | BIGINT(11) UNSIGNED |  | Thumbnail file size |
| TMB\_FILE\_DT | DATETIME |  | Created date/time |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| PATH\_ID | BIGINT(20) |  | RECPTH ID of this |

## **ROLECODE** : Role Code for one User

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | INT(11) UNSIGNED | PK | Unique ID |
| CODE | VARCHAR(50) |  | Role Code |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| USER\_ID | VARCHAR(255) |  | User ID which has this role |

## **SECUREDATA** : Secure Data

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | INT(11) UNSIGNED | PK | Unique ID |
| HOST\_PRIVATE\_KEY | TEXT |  |  |
| HOST\_CERTIFICATION | TEXT |  |  |
| RSA\_PRIVATE\_KEY | TEXT |  |  |
| RSA\_PUBLIC\_KEY | TEXT |  |  |
| BIOSTAR2\_PUBLIC\_KEY | TEXT |  |  |
| DEFAULT\_ADMIN\_ACCOUNT | TEXT |  |  |
| SESSION\_SECRET | VARCHAR(255) |  |  |
| SYSTEM\_SALT | VARCHAR(255) |  |  |
| ENCRYPTION\_KEY | VARCHAR(255) |  |  |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |

## **SYSTEMSETTING** : System Setting

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | INT(11) UNSIGNED | PK | Unique ID |
| BIOSTAR\_SERVER\_URL | VARCHAR(255) |  |  |
| PASSWORD\_STRENGTH\_LEVEL | VARCHAR(255) |  |  |
| EXT\_SYSTEM\_ID | VARCHAR(255) |  |  |
| EXT\_SYSTEM\_SESSION\_ID | VARCHAR(255) |  |  |
| EXT\_SYS\_BIOSTAR\_SESSION\_ID | VARCHAR(255) |  |  |
| EXT\_SYS\_SESSION\_UDT\_DATETIME | DATETIME |  |  |
| MAX\_BK\_DATE\_DAYS\_FOR\_EVT\_SYNC | INT(11) |  |  |
| SEARCH\_LIMIT\_FOR\_USER\_SYNC | INT(11) |  |  |
| LAST\_UDT\_VER\_FOR\_USER\_SYNC | INT(11) |  |  |
| IS\_COMPLETE\_USER\_SYNC | TINYINT(1) |  |  |
| IS\_COMPLETE\_EVENT\_SYNC | TINYINT(1) |  |  |
| RC\_SP | FLOAT |  | Reserved Space for record |
| space\_rate\_to\_alert | SMALLINT(5) |  | Unused |
| record\_mode | SMALLINT(5) |  | Recording Mode1: Circular Queue Mode2: Stop on Record Space is full |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| PATH\_ID | BIGINT(20) UNSIGNED |  | Current record path ID |

## **TIMESCHEDULE** : Time Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| NAME | VARCHAR(255) |  | name |
| TYPE | VARCHAR(255) |  | Repetition type string |
| BIOSTAR\_ID | INT(11) | PK | Schedule ID from BioStar |
| NUM\_OF\_DAYS | INT(11) |  | Duration day |
| DSCR | TEXT |  | Description |
| START\_DATE | DATETIME |  | Start date of this schedule |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |

## **TIMESCHEDULETIMESEGMENT** : Time Segments of Time Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| DAY\_INDEX | INT(11) |  | Date Index of One Week |
| START\_TIME | INT(11) |  | Start time  |
| END\_TIME | INT(11) |  | End time |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| TSID | INT(11) |  | Time Schedule ID |

## **TR\_EVT** : Trigger Event to Record Video/Snapshot Data

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | BIGINT(20) UNSIGNED | PK | Unique ID |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| EVT\_TYP\_CD | INT(11) UNSIGNED |  | Event Type Code what trigger recording |
| TSC\_ID | INT(11)  |  | Time Schedule ID |
| IP\_CAM\_ID | INT(11) UNSIGNED |  | Target IP Camera ID |

## **USER** : User

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| USER\_ID | VARCHAR(255) | PK | Unique ID |
| NAME | VARCHAR(255) |  | Name  |
| BIRTH\_DATE | DATETIME |  | NOT Used |
| ST\_DT | DATETIME |  | Start date/time |
| EXP\_DT | DATETIME |  | Expire date/time |
| GENDER\_CODE | VARCHAR(255) |  | NOT Used |
| LOGIN\_ID | VARCHAR(255) |  | Login ID |
| PASSWORD | VARCHAR(255) |  |  |
| PASSWORD\_EXIST | TINYINT(1) |  |  |
| MOBILE\_PHONE | VARCHAR(255) |  |  |
| EMAIL | VARCHAR(255) |  | NOT Used |
| PHOTO\_EXIST | TINYINT(1) |  | NOT Used |
| PHOTO | VARCHAR(255) |  | NOT Used |
| PHOTO\_DOWNLOADED | TINYINT(1) |  | NOT Used |
| STATUS\_CODE | VARCHAR(10) |  | Status Code = AC (active)/IN (inactive) |
| LAST\_UPDATE\_VERSION | INT(11) |  | Figure out update or not |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| UG\_ID | BIGINT(20) UNSIGNED |  | Parent User Group ID |

## **USERGROUP** : User Group

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | BIGINT(20) UNSIGNED | PK | Unique ID |
| NAME | VARCHAR(255) |  | Name |
| DEPTH | INT(11) |  | User Group Tree depth Level |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |
| PUG\_ID | BIGINT(20) UNSIGNED |  | Parent User Group ID |

## **USERSESSION** : User Session

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| ID | BIGINT(20) | PK | Unique ID |
| USER\_ID | VARCHAR(255) |  | User ID |
| USER\_NAME | VARCHAR(255) |  | Name |
| SESSION\_ID | VARCHAR(255) |  | Session ID |
| BIOSTAR\_SESSION\_ID | VARCHAR(255) |  | Biostar Session ID |
| LOGOUT\_DATE\_TIME | DATETIME |  | Logout date/time |
| LANGUAGE | VARCHAR(255) |  | Language setting |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |

## **VESESSION** : Video Extension Session

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Key** | **Description** |
| SID | VARCHAR(255) | PK | Unique ID |
| DATA | TEXT |  | Data |
| EXPIRES | DATETIME |  | Expire date/time |
| CREATEDAT | DATETIME |  | Created date/time |
| UPDATEDAT | DATETIME |  | Updated date/time |