

BioStar 2

Database Table

Version 2.9.4



@2024 by Suprema Inc.

Table of Contents

Revision Note	4
BioStar 2.9.4	4
BioStar 2.8.10	4
BioStar 2.8.9	4
BioStar 2.8.6	4
BioStar 2.8.0	4
BioStar 2.7.11	4
BioStar 2.7.6	4
BioStar 2.7.4	4
BioStar 2.7.2	4
BioStar 2.7.1	4
BioStar 2.5	4
BioStar 2.4	5
BioStar 2.3	5
Cautions	5
Generic Cautions	5
BioStar 2 Database Related Cautions	7
Table Information	8
T_USRCRD : Assigned User Cards	10
T_CRDISSHIS : History of Issued Cards	11
T_CRD : Card Information	11
T_ALMEVT_{yyyymm} : Alarm Event	12
T_LGALMTRSTRC_{yyyymm} : Trace of log alarm	12
T_USRGR : User Group Information	12
T_USR : User Information	14

T_USRPHOTO : User Profile Photo Information	19
T_LGTBIDX : Index & Information of Log Tables.....	19
T_USROPRMD : User Private Authentication Mode.....	20
T_EVTTYP : Event Type.....	21
T_USRUDTBYDEV : GraphicMap Element(like Door, Zone and etc) Type	22
T_DEVTHM : Thermal camera and mask setting	23

Database Table Description

Revision Note

BioStar 2.9.4

- ADLGNID to t_usr has been added.

BioStar 2.8.10

- TEMPTHOLDLOW to t_devthm has been added.
- TEMPTHOLD to TEMPTHOLDHIGH in t_devthm has been changed.
- EMIRATE to EMISSIVITY in t_devthm has been changed.

BioStar 2.8.9

- PRDSTDT, PRDEDDT to t_usrcrd has been added.
- DEPARTMENT, TITLE to t_usr has been added.

BioStar 2.8.6

- T_DEVTHM (Thermal camera and mask setting) has been added.
- TEMPER to T_LGyyyyymm has been added.

BioStar 2.8.0

- IDXUSRID, IDXUSRIDNUM, IDXNM, IDXPH, IDXEML, IDXLSTMOD To t_usr has been added.

BioStar 2.7.11

- CREATEDT To t_usr has been added.

BioStar 2.7.6

- CREATEDT To t_usr has been added.

BioStar 2.7.4

- PREVPW1, PREVPW2, PREVPW3 To t_usr has been added.

BioStar 2.7.2

- LSTPWMODDT, LSTLOGINFAILEDDT, LOGINFAILEDCNT, PWMODCN To t_usr has been added.

BioStar 2.7.1

- USRUDBYDEV of t_lgYYYYMMDD has been added.

BioStar 2.5

- Columns for internal use in T_USR have been added.

BioStar 2.4

- T_AUTHGRP (Face Authentication group) has been added.
- For other column changes refer to the rows highlighted in yellow.

BioStar 2.3

- BioStar 2 supports Maria DB by default.
- Versions before BioStar 2.3 uses SQLite for the AC database and Maria DB for the T&A database

Cautions

Generic Cautions

A. Isolation Level

If **tx_isolation** in Maria DB's Global/Session variable is **REPEATABLE READ** avoid using INSERT INTO ~, SELECT ~, CREATE TABLE AS ~ SELECT ~

- Alternative: Configure and use **tx_isolation** as **READ UNCOMMITTED** or **READ COMMITTED**.
- Reference: [Isolation Level](#)

B. 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.

- Alternative: Use INSERT INTO ~ ON DUPLICATE KEY UPDATE ~
- Reference 1: [Replace](#)
- Reference 2: [INSERT on duplicate key update](#)

C. 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.

- Example 1: UPDATE T_USR SET NM = (SELECT NM FROM T_USR WHERE USRID = '1111');
- Example 2: INSERT INTO T_USR (A, B, C, D) SELECT 'a', 'b', 'c', D FROM T_USR;

D. Transactions

Transactions (batch jobs) should be held shortly as possible unless it is an insert and update execution for a large number of rows.

E. DDL Usage

DDL usage within a transaction will execute an implicit commit which may result in unintended results.

(Rollback is not possible)

- a. Reference 1: [SQL statements That Cause an Implicit Commit](#)

BioStar 2 Database Related Cautions

A. Allowed Tables

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

B. User Tables

Please do not let the User (T_USR) and User Group (T_USR) tables get locked.

- a. Avoid using UPATE ~, SELECT ~, INSERT INTO ~, and SELECT, statements for these tables.
(related to Isolation levels mentioned in Generic Cautions – A)
- b. Transactions should be short if INSERT, UPDATE, DELETE queries are executed.

C. Log Tables

Please do not let log related tables become locked (T_LGTBIDX, T_LGyyyyymm, T_LGALMTRSTRCyymm, T_ALMEVTyyyyymm).

- a. INSERT, UPDATE, DELETE statements are not allowed.
- b. If transactions must be used for these tables, please keep them short.

Table Information

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

The following is an outline and description of the Data Domain, Database Tables, and their columns with data information.

The tables follow **Data Domain** as below:

Domain Name	Data Type	Description
D_BL	Longblob	B-LOB
D_CHS	Varchar(40)	Checksum
D_DEVDT	Int	Date/time in Device
D_DSCR	Varchar(2048)	Description
D_DT	Datetime	Date/time
D_EMLADR	Char(255)	E-mail address
D_FLEXNM	Varchar(4)	File extension name
D_FLPTHNM	Varchar(255)	File name
D_GEN	Char(1)	Gender ('M'=male, 'F'=female, 'N'=not specific)
D_NM	Varchar(48)	Name
D_PHNO	Varchar(32)	Phone No.
D_UNQID	Int	Unique Identifier
D_USRID	Char(32)	User ID
D_USRPWD	Char(32)	Password
D_VALYORN	Char(1)	Whether if yes or no ('Y'=yes, 'N'=no)

The tables introduced along with their columns are:

- T_USRCRD (Assigned User Cards)
- T_CRDSSHIS (History of issued cards)
- T_CRD (Card Information)
- T_USRGR (User Group)
- T_USR (User Information)
- T_USRPHOTO (User Profile Photo)
- T_LGTBIDX (Log Table Index)
- T_USROPRMD (User Authentication Mode)
- T_EVTTYP (Event Type)
- T_USRUDTBYDEV (GrapticMap Element(like Door, Zone and etc) Type)
- T_DEVTHM (Thermal camera and mask setting)

The following log-related tables are created and named automatically after the log’s corresponding year and month.

- | | |
|--|----------------------------------|
| - T_ALMEVT <u>yyyymm</u> (Alarm Event) | i.e. T_ALMEVT <u>201305</u> |
| - T_LGALMTRSTRC <u>yyyymm</u> (Trace of log alarm) | i.e. T_LGALMTRSTRC <u>201305</u> |
| - T_LG <u>yyyymm</u> (Logs) | i.e. T_LG <u>201305</u> |

[Note] : Gray - Not used in 2.0.1 Version OR TBD

Yellow – Added in 2.4

Blue-Added in 2.5

Green-Added in 2.7.1

Green in red -Added in 2.7.2

Green in blue -Added in 2.7.4

Green in orange -Added in 2.7.6

Green in gray-Added in 2.7.11

Blue-Added in 2.8(Even Once encrypted Column Size)

Yellow in blue-Added in 2.8.6

Red in blue – Added in 2.8.9

Gray in blue – Added in 2.8.10

Blue in Yellow – Added in 2.9.4

T_USRCRD : Assigned User Cards

Column	Data Type	Key	Description
USRUID	D_UNQID - INT		Unique User ID (<i>INTERNAL</i>)
CRDUID	D_UNQID - INT	PK	Card ID
IDX	INT		User card index number
ISSDDT	D_DT - DATETIME		Card issued date/time
EXPDT	D_DT - DATETIME		Card expiry date
ISSDCNT	INT		Number of cards issued
CRDMSK	INT		Check if a bypass card (TBD)
PRDSTDT	DATETIME		The start date of the Dynamic card period
PRDEDDT	DATETIME		The end date of the Dynamic card period

T_CRDISSHIS : History of Issued Cards

Column	Data Type	Key	Description
CRDISSHISUID	D_UNQID - INT	PK	Unique Card ID
CRDUID	D_UNQID - INT		Card type ID
ISSDDT	D_DT - DATETIME		Card issued date/time
EXPDT	D_DT - DATETIME		Card expiry date
CNC	D_VALYORN - CHAR(1)		Check if deleted
CNCDT	D_DT - DATETIME		Card deleted date/time
USRUID	D_UNQID - INT		The unique user ID
ISSDCNT	INT		Number of cards issued
ISSDDSCR	D_DSCR - VARCHAR(2048)		TBD
CNCDSCR	D_DSCR - VARCHAR(2048)		TBD

T_CRD : Card Information

Column	Data Type	Key	Description
CRDUID	D_UNQID - INT	PK	Unique card ID
CRDTYPUID	D_UNQID - INT		Card type ID '0' = CSN '1' = CSN Wiegand '2' = Secure Credetial [TBD] '3' = Access On Card [TBD]
CRDCSN	VARCHAR(128)		Card serial number (CSN)
ASMUID	D_UNQID - INT		Assigned unique ID
WGDFMUID	D_UNQID - INT		Unique Wiegand format ID (When CRDTYPUID is 1) '0' = 26 bit SIA Standard-H10301 '1' = HID 37 bit-H10302 HID 37 bit-H10302 '2' =HID 37 bit-H10304 HID 37 bit-H10304 '3' =HID Corporate 1000 HID Corporate 1000 (NULL = when CRDTYPUID is not 1)
WGDFMTVER	INT		WGDFMUID's version information. Fixed as 2.

T_ALMEVT*yyyymm* : Alarm Event

Column	Data Type	Key	Description
EVTLGUID	D_UNQID - INT	PK	Unique event log ID
ACKDT	D_DT - DATETIME		Date/time when the alarm was acknowledged (NULL : when ignored)
ACKMSG	D_DSCR - VARCHAR(2048)		Comment left when the alarm was acknowledged (NULL : when ignored)
ACKACT	INT		Acknowledged action when the alarm showed up '0' = Ignored '1' = Acknowledged
ACKUSRID	D_USRID - INT		User ID who acknowledged the alarm (NULL : when ignored)

T_LGALMTRSTRC*yyyymm* : Trace of log alarm

Column	Data Type	Key	Description
EVTLGUID	D_UNQID - INT	PK	The unique event log ID
ALMUID	D_UNQID - INT	PK	Unique alarm ID
TRSDT	D_DT - DATETIME		Transmitted date/time
TRS	D_VALYORN - CHAR(1)		Check if transmitted

T_USRGR : User Group Information

Column	Data Type	Key	Description
USRGRUID	D_UNQID - INT	PK	Unique user group ID
ORD	D_DSPORD - INT		Order of a user group
NM	D_NM - VARCHAR(48)		Name of a user group
DSCR	D_DSCR - VARCHAR(2048)		Description of a user group (INTERNAL -development purpose only)
DEP	INT		Depth(Level) of a user group
IHR	D_VALYORN - CHAR(1)		TBD
PARENTUSRGRUID	D_UNQID - INT		The unique parent user group ID
AUTHGRUID	INT		Face authentication group (FK of T_AUTHGRP)

T_AUTHGRP : Face Authentication Group

Column	Data Type	Key	Description
AUTHGRPUIID	D_UNQID - INT	PK	Unique user ID (INTERNAL)
IDX	INT		User ID/User group ID(_user_group_ID#)
NM	D_NM - VARCHAR(64)		User name
DEL	D_VALYORN - CHAR(1)		Check if user deleted 'Y' = deleted 'N' = undeleted
LSTMOD	INT		Edit count (INTERNAL)

T_USR : User Information

Column	Data Type	Key	Description
USRUID	D_UNQID - INT	PK	Unique user ID (INTERNAL)
USRID	D_USRID - CHAR(32/128)		User ID/User group ID(_user_group_ID#)
NM	VARCHAR(64/255)		User name
GEN	D_GEN - CHAR(1)		User gender
TIT	VARCHAR(32)		User job title
PH	D_PHNO - VARCHAR(32/128)		User phone number
EML	D_EMLADR - CHAR(255)		User E-mail address
BTH	D_DT - DATETIME		Date of birth of a user
PIN	D_USRPWD - CHAR(64)		User PIN – Credential
LGNID	D_USRID - CHAR(32/128)		BioStar login ID
PW	D_USRPWD - CHAR(64)		BioStar login password
STTDT	D_DT - DATETIME		Job starting date of a user
EXPDT	D_DT - DATETIME		Job ending date of a user
SECLVL	CHAR(1)		1:1 Security level of a user (INTERNAL) '0' = Device default '1' = Lowest (1/1,000) '2' = Low (1/10,000) '3' = Normal (1/100,000) '4' = High (1/1,000,000) '5' = Highest (1/10,000,000)
DISDRT	INT		TBD
DISCNT	INT		TBD
DISMSG	VARCHAR(64)		TBD
DSBDUSR	D_VALYORN - CHAR(1)		Check if disabled (inactive status) 'Y' = disabled (inactive) 'N' = enabled (active)

IHR	D_VALYORN - CAHR(1)		TBD
USATHPHT	D_VALYORN - CHAR(1)		TBD
DEL	D_VALYORN - CHAR(1)		Check if user deleted 'Y' = deleted 'N' = undeleted
DELDT	D_DT - DATETIME		User deleted date/time
DELUSRID	D_USRID - CHAR(32/128)		Deleted user ID
USRGRUID	D_UNQID - INT		User group ID
ISUSRGR	D_VALYORN - CHAR(1)		Check if a user group 'Y' = a user group 'N' = not a user group
LSTMOD	INT		Total number of times user info modified (<i>INTERNAL</i>)
MODFLG	CHAR(1)		TBD
PERMUID	D_UNQID - INT		BioStar operator authorization ID (<i>INTERNAL</i>)
LSTMDDT	D_DT - DATETIME		Date/time last modified
UDTCNT	INT		Number of times modification updated (<i>INTERNAL</i>)
PWSTA	INT		(<i>INTERNAL</i>)
PWTKN	CHAR(64)		(<i>INTERNAL</i>)
USRIDORD	CHAR(33)		(INTERNAL)
LSTPWMODDT	DATETIME		(INTERNAL)
LSTLOGINFAILEDDT	DATETIME		(INTERNAL)
LOGINFAILEDCNT	INT		(INTERNAL)
PWMODCNT	INT		(INTERNAL)
PREVPW1	CHAR(64)		(INTERNAL)
PREVPW2	CHAR(64)		(INTERNAL)
PREVPW3	CHAR(64)		(INTERNAL)
CREATEDT	DATETIME		(INTERNAL)
USERIP	CHAR(32)		User IP restriction
IDXUSRID	INT		Encrypted 'USRID' Order Index
IDXUSRIDNUM	INT		Encrypted 'USRID' (number) Order Index

IDXNM	INT		Encrypted 'NM' Order Index
IDXPH	INT		Encrypted 'PH' Order Index
IDXEML	INT		Encrypted 'EML' Order Index
IDXLSTMOD	INT		Order Index Last Modified Count
DEPARTMENT	VARCHAR(512)		Department name used on Mobile Access card
TITLE	VARCHAR(512)		Job title used on Mobile Access card
ADLGID	VARCHAR(128)		AD Login ID

T_LGyyyyymm : Log Information

Column	Data Type	Key	Description
EVTLGUID	D_UNQID - INT	PK	Unique event log ID
SRVDT	D_DT - DATETIME		Date/time saved in the server
DEVDT	D_DEVDT - INT		Date/time of the event (Unix Timestamp)
DEVUID	D_UNQID - INT		Device ID which the event was occurred in
PKTDEVID	INT		Device ID which sent the event to the server
DEVLGIDX	DECIMAL(38,0)		Index of the event in the device
IMGLGUID	D_UNQID - INT		TBD
USRID	D_USRID - CHAR(32/128)		'User ID' : when authenticated by the corresponding user 'Card number' : when card authentication failed with the corresponding card '0' = when access denied or authentication failed by unknown user or card
EVT	INTEGER		Type of event
CRDSL	INT		Card slot
TNAKEY	INT		TBD
DRUID	INT		Door ID (if exists)
ZNUID	INT		Zone ID (if exists)
ELVTUID	INT		Elevator ID
DRUID1	INT		Door ID (if exists)
DRUID2	INT		Door ID (if exists)
DRUID3	INT		Door ID (if exists)
IS_DST	INT		DST Info – whether to use DST (0 = not, 1 = use)
TMZN_HALF	INT		DST Info - minute of time zone (0 = 0 minute , 1 = 30 minutes)
TMZN_HOUR	INT		DST Info - hour of time zone (1 ~ 12)
TMZN_NEGTV	INT		DST Info - sign of time zone (0 = +, 1 = -)
USRUDTBYDEV	Char(1)		Updated information of User data from devices - Y= There is updated information from the devices - N= There is no updated information of user data from the devices
HINT	VARCHAR(50)		p(INTERNAL)

TEMPER	INT		Temperature
--------	-----	--	-------------

Note: For event type (EVT) refer to the t_evttyp table

Database filter

Table filter

t_dewwgd

32.0 KiB

t_dr

112.0 KiB

t_drgr

32.0 KiB

t_drtrgact

64.0 KiB

t_elvt

64.0 KiB

t_elvtdevs

64.0 KiB

t_elvtgr

32.0 KiB

t_elvttrgact

112.0 KiB

t_erldev

16.0 KiB

t_etrddevs

32.0 KiB

t_evtflit

32.0 KiB

t_evttyp

32.0 KiB

t_exdevs

32.0 KiB

t_extsys

16.0 KiB

t_faldrgrs

32.0 KiB

t_faldris

32.0 KiB

t_falelvt

32.0 KiB

t_fctmpl

48.0 KiB

T_FINGERTEMPLATEDLETED

Host: 127.0.0.1

Database: biostar2_ac

Table: t_evttyp

Data

Query

Next

Show all

biostar2_ac.t_evttyp: 214 rows total (approximately)

EVT	NM	DSCR	PDFDALM	ALTBL	ALTNM	ALTMSG	PLYOPT	SNOUID	GENTBL
3,111	NVR_ADDED_SUCCESS	NVR_ADDED_SUCCESS	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,113	NVR_ADD	NVR_ADD	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,131	NVR_UPDATED_SUCCESS	NVR_UPDATED_SUCCESS	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,132	NVR_UPDATED_FAIL	NVR_UPDATED_FAIL	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,133	NVR_UPDATE	NVR_UPDATE	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,141	NVR_REMOVED_SUCCESS	NVR_REMOVED_SUCCESS	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,142	NVR_REMOVED_FAIL	NVR_REMOVED_FAIL	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,143	NVR_REMOVE	NVR_REMOVE	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,211	IPC_ADDED_SUCCESS	IPC_ADDED_SUCCESS	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,212	IPC_ADDED_FAIL	IPC_ADDED_FAIL	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,213	IPC_ADD	IPC_ADD	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,231	IPC_UPDATED_SUCCESS	IPC_UPDATED_SUCCESS	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,232	IPC_UPDATED_FAIL	IPC_UPDATED_FAIL	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,233	IPC_UPDATE	IPC_UPDATE	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,241	IPC_REMOVED_SUCCESS	IPC_REMOVED_SUCCESS	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,242	IPC_REMOVED_FAIL	IPC_REMOVED_FAIL	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,243	IPC_REMOVE	IPC_REMOVE	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,351	REC_FINISHED_SUCCESS	REC_FINISHED_SUCCESS	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,352	REC_FINISHED_FAIL	REC_FINISHED_FAIL	N	Y	(NULL)	(NULL)	(NULL)	(NULL)	Y
3,353	REC_START	REC_START	N	N	(NULL)	(NULL)	(NULL)	(NULL)	Y

T_USRPHOTO : User Profile Photo Information

Column	Data Type	Key	Description
USRUID	D_UNQID - INT	PK	Unique user ID
FLNM	D_FLPHTNM VARCHAR(255)	-	File name; Automatically fixed to 'unnamed' (2.0.1 Version)
MIMTYP	D_FLEXNM VARCHAR(4)	-	Mime type. Automatically converted and fixed to 'JPG'
IMG	D_BL - LONGBLOB		User profile photo data
CHS	D_CHS VARCHAR(40)	-	TBD

T_LGTBIDX : Index & Information of Log Tables

Logs are managed by monthly tables; this table has basic information of monthly log tables such as their IDs, names, etc.

Column	Data Type	Key	Description
TABLEIDXUID	D_UNQID - INT	PK	Unique log table index number
LGTABLENM	D_NM VARCHAR(48)	-	Unique log table name
LGIMGDATABLENM	D_NM VARCHAR(48)	-	TBD
LGALMTRSTRCTABLENM	D_NM VARCHAR(48)	-	Name of its alarm trace table
ALMEVTTABLENM	D_NM VARCHAR(48)	-	Name of its alarm event table
STTDT	D_DT - DATETIME		Since when logs are saved in corresponding log table
ENDDT	D_DT - DATETIME		Until when logs are saved in corresponding log table
ISCUR	D_VALYORN CHAR(1)	-	Check if recent 'Y' = recent 'N' = not recent

T_USROPRMD : User Private Authentication Mode

Column	Data Type	Key	Description
USRUID	D_UNQID - INT	PK	Unique user ID
IDX	INT	PK	Index of private authentication options of corresponding user
OPRMTH	INT	PK	TBD
OPRMD	INT		Operation mode '0' = Finger only '1' = Finger+PIN '2' = Card only '3' = Card+Fingerprint' '4' = Card+PIN' '5' = Card+Fingerprint/PIN '6' = Card+Fingerprint + PIN '7' = ID+Fingerprint '8' = ID+PIN' '9' = ID+Fingerprint/PIN' '10' = ID+Fingerprint + PIN'
EXC	D_VALYORN CHAR(1)	-	'Y' - Excluded in private authentication mode 'N' - Included in private authentication mode

T_EVTTYP : Event Type

Column	Data Type	Key	Description
EVT	INT	PK	Unique event number
NM	D_NM VARCHAR(48)	-	Event name
DSCR	D_DSCR VARCHAR(2048)	-	Event description
PDFDALM	D_VALYORN CHAR(1)	-	Check if a predefined alarm
ALTBL	D_VALYORN CHAR(1)	-	Check if alert-able
ALTNM	D_NM VARCHAR(48)	-	Alert name
ALTMSG	D_DSCR VARCHAR(2048)	-	Alert message
PLYOPT	INT		Frequency option to play the alert sound '-1' = Silent '0' = Loop until acknowledge '1' = Once
SNDUID	D_UNQID-INT		Alert sound ID (When NULL, it is not to play any alert sounds.)

T_USRUDTBDEV : GraphicMap Element(like Door, Zone and etcs) Type

Column	Data Type	Key	Description
EVT	INT	PK	Unique event number
NM	D_NM VARCHAR(48)	-	Event name
DSCR	D_DSCR VARCHAR(2048)	-	Event description
PDFDALM	D_VALYORN CHAR(1)	-	Check if a predefined alarm
ALTBL	D_VALYORN CHAR(1)	-	Check if alert-able
ALTNM	D_NM VARCHAR(48)	-	Alert name
ALTMSG	D_DSCR VARCHAR(2048)	-	Alert message
PLYOPT	INT		Frequency option to play the alert sound '-1' = Silent '0' = Loop until acknowledge '1' = Once
SNDUID	D_UNQID-INT		Alert sound ID (When NULL, it is not to play any alert sounds.)

T_DEVTHM : Thermal camera and mask setting

Column	Data Type	Key	Description
DEVUID	INT	PK	Device ID
USETHMCAM	INT		Use thermal camera '0' = Not use a thermal camera '1' = Use a thermal camera
USECTG	INT		Use Fahrenheit or Celsius '0' = Fahrenheit '1' = Celsius
TEMPTHOLDHIGH	INT		High threshold temperature
USEAUDTEMP	CHAR(1)		Check if save temperature data
USETEMPPRESND	CHAR(1)		Check if temperature fail sound
USEOLTHM	CHAR(1)		Check if show an infrared image
TEMPCHKMOD	INT		Thermal check mode '0' = Check after authentication '1' = Check before authentication '2' = Check without authentication
USEMASK	INT		Use mask '0' = Not use a mask '1' = Use a mask
MASKDCTLVL	INT		Mask detect level '0' = Off '1' = Strict '2' = More strict '2' = Most strict
USEDNROI	CHAR(1)		Check if dynamic ROI
DIST	INT		Distance(cm)
EMISSIONITY	INT		Emission rate
ROI X	INT		ROI X(%)
ROI Y	INT		ROI Y(%)
ROI WIDTH	INT		ROI width(%)
ROI HEIGHT	INT		ROI height(%)
USEBODYCOMP	CHAR(1)		Check if body compensation
COMPTMP	INT		Compensation Temperature
TEMPTHOLDLOW	INT		Low threshold temperature

