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How to distinguish T&A event type in the BioStar database

Where can I find T&A event type from BioStar Database Table?

All the information is saved in *nKeyEvent* column of *TB_TA_DEVICE_EVENT_KEY* table.

Concept

It is required to set the event type from T&A setting page of connected device before distinguishing the T&A event type. As you can see below, **Caption** is what is shown on the device LCD screen and **Event Type** is what is actually used for T&A time calculation.

TA Key	Caption	Schedule	Fixed or Not	Use Relay	Event Type
F1	check-in	No Time	Use	Use	Not Use
F2	checkout	No Time	Not Use	Not Use	Not Use
F3	in	No Time	Not Use	Use	Not Use
F4	out	No Time	Not Use	Not Use	Not Use

Case 1

Most common setting for event types is as below; Use of F1, F2, F3 and F4 key as a T&A key.

Operation Mode | Fingerprint | Network | Access Control | Input | Output | Black List | Display/Sound | **T & A** | Wiegand

T & A Mode: Manual

TA Key	Caption	Schedule	Fixed or Not	Use Relay	Event Type
F1	check-in	No Time	Use	Use	Check-In
F2	checkout	No Time	Not Use	Not Use	Check-Out
F3	In	No Time	Not Use	Use	In
F4	Out	No Time	Not Use	Not Use	Out

T & A Key

Function Key: F4 ☐ Fixed Event

Event Caption: Out ☐ Use Relay

Auto Mode Schedule: No Time

Event Type: Out

☐ Regard as normal check-in/check-out event ☐ Only Result

☐ Add work time after this event

Add Modify Delete Delete All

When the user authenticates after pressing F1 key, below is the actual information saved in *nKeyEvent*.

nDeviceEventK...	nReaderIdn	nKeyIdn	nKeyEvent	nNoLate	nIsOnlyResult	nIsWorkTime	sEventName
13	100038	0	1	0	0	0	check-in
14	100038	1	2	0	0	0	checkout
15	100038	2	3	0	0	0	In
16	100038	3	4	0	0	0	Out

Numbers saved in the *nKeyEvent* and Event type are as below.

nKeyEvent	Event type
0	Not use
1	Check-in
2	Check-out
3	In
4	Out

It is possible to set *nKeyIdn* column from 0 to 15. *sEventName* column refers to T&A caption.

Case 2

In this case, T&A Key captions are all set but Event Type is left as is. When the user authenticates by pressing the T&A key, this will not be affected as actual in or out.

Operation Mode | Fingerprint | Network | Access Control | Input | Output | Black List | Display/Sound | T & A | Wiegand

T & A Mode: Manual

TA Key	Caption	Schedule	Fixed or Not	Use Relay	Event Type
F1	Out	No Time	Use	Use	Not Use
F2	Out	No Time	Not Use	Not Use	Not Use
F3	Out	No Time	Not Use	Use	Not Use
F4	Out	No Time	Not Use	Not Use	Not Use

T & A Key

Function Key: F4 ☐ Fixed Event

Event Caption: Out ☒ Use Relay

Auto Mode Schedule: No Time

Event Type: Not Use

☐ Regard as normal check-in/check-out event ☐ Only Result

☐ Add work time after this event

Add Modify Delete Delete All

When the user authenticates after pressing F1 key (Event type set as 'Not use'), you can see the logs as below.

Door/Zone Monitoring | Realtime Monitoring | Log List

Status: Monitoring Started

Date	Device ID	Device	Event	T&A Event	User ID	User
2014-02-07 17:14:34	100038	100038[192.168....	Identify Success	check-in	1	TEST USER
2014-02-07 17:14:35	100038	100038[192.168....	Door Relay On		0	

In this case, *nKeyEvent* column of *TB_TA_DEVICE_EVENT_KEY* table shows **0** since the Event type is set to **Not use**. This event is processed as it does not have T&A caption. In other words, it is processed as a normal log (No T&A key pressed).

nDeviceEventK...	nReaderIdn	nKeyIdn	nKeyEvent	nNoLate	nIsOnlyResult	nIsWorkTime	sEventName
25	100038	0	0	0	0	0	check-in
26	100038	1	0	0	0	0	checkout
27	100038	2	0	0	0	0	In
28	100038	3	0	0	0	0	Out

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