**RECORD OF CHAGE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Effective date** | **Change item** | **A, M or D (\*)** | **Change description** | **New version** | **Author** |
| 06/09/2017 |  | **A** | Create Data Structure document | 1.0 | Thang Nguyen Chien |

**(\*) A** – Added, **M** – Modified, **D** – Delete

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# ACCOUNTS COLLECTION

{

"\_id": <ACCOUNT ID OBJECT>,

"rooms": <ROOM NAME LIST>,

"tenses": <TENSE NAME LIST>,

"password": <ACCOUNT PASSWORD>,

"email": <ACCOUNT EMAIL>,

"devices": {

<DEVICE ID STRING>: {

"rule": <RULE OF ACCOUNT USING>,

"child\_devices": {

"1": {

"tense": <TENSE NAME LIST>,

"room": <ROOM NAME>

},

"2": {

"tense": <TENSE NAME LIST>,

"room": <ROOM NAME>

},

"3": {

"tense": <TENSE NAME LIST>,

"room": <ROOM NAME>

},

"4": {

"tense": <TENSE NAME LIST>,

"room": <ROOM NAME>

}

}

},

...

},

"time\_zone": <TIME ZONE>

}

# DEVICES COLLECTION

{

"\_id": <DEVICE ID OBJECT>,

"name": <DEVICE NAME>,

"type": <DEVICE TYPE>,

"mac": <DEVICE MAC ADDRESS>,

"status": <DEVICE STATUS LIST>,

"owner": <OWNER DEVICE ID OBJECT>,

"ownerEmail": <OWNER DEVICE EMAIL>,

"sharedEmails": <SHARED ACCOUNT EMAIL LIST>,

"shared": <SHARED ACCOUNT ID OBJECT LIST>,

"sharing": <SHARING ACCOUNT ID OBJECT LIST>,

"sharingEmails": <SHARING ACCOUNT EMAIL LIST>,

"child\_devices": {

"1": {

"type": <CHILD DEVICE TYPE>,

"name": <CHILD DEVICE NAME>

},

"2": {

"type": <CHILD DEVICE TYPE>,

"name": <CHILD DEVICE NAME>

},

"3": {

"type": <CHILD DEVICE TYPE>,

"name": <CHILD DEVICE NAME>

},

"4": {

"type": <CHILD DEVICE TYPE>,

"name": <CHILD DEVICE NAME>

}

}

}

# TIMERS COLLECTION

{

"\_id" : <DEVICE ID OBJECT>,

"status" : <DEVICE STATUS LIST>,

"repeat" : <AN INTERGER: REPEAT DAYS IN BITWISE>,

"owner" : <OWNER DEVICE ID OBJECT>,

"state" : <0/1: DISABLE/ENABLE>,

"time" : <MINUTE IN DAY>,

"device" : <DEVICE ID OBJECT>

}