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BioStar

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Ethernet

Zone Master BioStar V2.x 가 가 (Master ↔ Member)
Ethernet TCP Zone 1.x Entrance Limit, Fire Alarm Zone

- [BS2_GetDeviceZone](#): Ethernet 가
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BS2ZoneStatus

```
typedef struct {
    uint32_t id;
    uint8_t status;
    uint8_t disabled;
    uint8_t reserved[6];
} BS2ZoneStatus;
```

1. id

2. *status*

0	
1	
2	scheduled lock
4	scheduled unlock

3. *disabled*

flag

4. *reserved*

BS2ApbMember

```
typedef struct {
    uint32_t deviceID;
    uint8_t type;
    uint8_t reserved[3];
} BS2ApbMember;
```

1. *deviceID*

2. *type*

APB reader

-1	
0	
1	

3. *reserved*

BS2TimedApbMember

```
typedef struct {
    uint32_t deviceID;
    uint8_t reserved[4];
} BS2TimedApbMember;
```

1. *deviceID*

2. *reserved*

BS2FireSensor

```
typedef struct {
    uint32_t deviceID;
    uint8_t port;
    uint8_t switchType;
    uint8_t duration;
} BS2FireSensor ;
```

1. *deviceID*

2. *port*

3. *switchType*

0	
1	

4. *duration*

millisecond

BS2AntiPassbackZone

```
typedef struct {
    uint32_t zoneID;
    char name[BS2_MAX_ZONE_NAME_LEN];
    uint8_t type;
    uint8_t numReaders;
    uint8_t numBypassGroups;
    uint8_t disabled;
    uint8_t alarmed;
    uint8_t reserved[3];
    uint32_t resetDuration;
    BS2Action alarm[BS2_MAX_APB_ALARM_ACTION];
    BS2ApbMember readers[BS2_MAX_READERS_PER_APB_ZONE];
    uint8_t reserved2[512];
    uint32_t bypassGroupIDs[BS2_MAX_BYPASS_GROUPS_PER_APB_ZONE];
} BS2AntiPassbackZone;
```

1. *zoneID*

1 가

가

2. name

BioStar

3. type

0	Hard APB(가)
1	Soft APB()

4. numReaders

APB reader

5. numBypassGroups

APB

6. disabled

flag

7. alarmed

8. reserved

9. resetDuration

가 APB

0

BioStar

10. alarm

가 APB

5

11. readers

64

12. reserved2

13. bypassGroupIDs

APB

16

BS2TimedAntiPassbackZone

```

typedef struct {
    uint32_t zoneID;
    char name[BS2_MAX_ZONE_NAME_LEN];
    uint8_t type;
    uint8_t numReaders;
    uint8_t numBypassGroups;
    uint8_t disabled;
    uint8_t alarmed;
    uint8_t reserved[3];
    uint32_t resetDuration;
    BS2Action alarm[BS2_MAX_TIMED_APB_ALARM_ACTION];
    BS2TimedApbMember readers[BS2_MAX_READERS_PER_TIMED_APB_ZONE];
    uint8_t reserved2[320];
    uint32_t bypassGroupIDs[BS2_MAX_BYPASS_GROUPS_PER_TIMED_APB_ZONE];
} BS2TimedAntiPassbackZone;

```

1. zoneID

1 가 .

2. name

BioStar .

3. type

0	Hard APB(가)
1	Soft APB()

4. numReaders

reader .

5. numBypassGroups

6. disabled

flag .

7. alarmed

8. reserved

9. resetDuration

가 , 0 , BioStar .

10. <i>alarm</i>			
가		5	.
11. <i>readers</i>			.
		64	.
12. <i>reserved2</i>			.
13. <i>bypassGroupIDs</i>			.
		16	.

BS2FireAlarmZone

```
typedef struct {
    uint32_t zoneID;
    char name[BS2_MAX_ZONE_NAME_LEN];
    uint8_t numSensors;
    uint8_t numDoors;
    uint8_t disabled;
    uint8_t alarmed;
    uint8_t reserved[8];
    BS2FireSensor sensor[BS2_MAX_FIRE_SENSORS_PER_FIRE_ALARM_ZONE];
    BS2Action alarm[BS2_MAX_FIRE_ALARM_ACTION];
    uint8_t reserved2[32];
    uint32_t doorIDs[BS2_MAX_DOORS_PER_FIRE_ALARM_ZONE];
} BS2FireAlarmZone;
```

1. <i>zoneID</i>			
	1	가	.
2. <i>name</i>			.
BioStar			.
3. <i>numSensors</i>			.
4. <i>numDoors</i>			.
5. <i>alarmed</i>			.
6. <i>disabled</i>			.
flag			.
7. <i>reserved</i>			.
8. <i>sensor</i>			.
		8	.

9. *alarm*

5

10. *reserved2*

11. *doorIDs*

32

BS2ScheduledLockUnlockZone

```

typedef struct {
    uint32_t zoneID;
    char name[BS2_MAX_ZONE_NAME_LEN];
    uint32_t lockScheduleID;
    uint32_t unlockScheduleID;
    uint8_t numDoors;
    uint8_t numBypassGroups;
    uint8_t numUnlockGroups;
    uint8_t bidirectionalLock;
    uint8_t disabled;
    uint8_t alarmed;
    uint8_t reserved[6];
    BS2Action alarm[BS2_MAX_SCHEDULED_LOCK_UNLOCK_ALARM_ACTION];
    uint8_t reserved2[32];
    uint32_t doorIDs[BS2_MAX_DOORS_IN_SCHEDULED_LOCK_UNLOCK_ZONE];
    uint32_t
bypassGroupIDs[BS2_MAX_BYPASS_GROUPS_IN_SCHEDULED_LOCK_UNLOCK_ZONE];
    uint32_t
unlockGroupIDs[BS2_MAX_UNLOCK_GROUPS_IN_SCHEDULED_LOCK_UNLOCK_ZONE];
} BS2ScheduledLockUnlockZone;

```

1. *zoneID*

1

가

2. *name*

BioStar

3. *lockScheduleID*

4. *unlockScheduleID*

5. *numDoors*

6. *numBypassGroups*

7. *numUnlockGroups*

가

8. *bidirectionalLock*

9. *disabled*

flag

10. *alarmed*

11. *reserved*

12. *alarm*

5

13. *reserved2*

14. *doorIDs*

32

15. *bypassGroupIDs*

16

16. *unlockGroupIDs*

가

16

BS2IntrusionAlarmZone

```

typedef struct {
    uint32_t zoneID;
    char name[BS2_MAX_ZONE_NAME_LEN];
    uint8_t armDelay;
    uint8_t alarmDelay;
    uint8_t disabled;
    uint8_t reserved[1];
    uint8_t numReaders;
    uint8_t numInputs;
    uint8_t numOutputs;
    uint8_t numCards;
    uint8_t numDoors;
    uint8_t numGroups;
    uint8_t reserved2[10];
} BS2IntrusionAlarmZone;

```

1. *zoneID*

1

가

2. *name*

BioStar

3. *armDelay*

4. *alarmDelay*

5. *disabled*
flag

6. *reserved[1]*

7. *numReaders*

8. *numInputs*

9. *numOutputs*

10. *numCards*

11. *numDoors*

12. *numGroups*

13. *reserved*

BS2IntrusionAlarmZoneBlob

```
typedef struct {  
    BS2IntrusionAlarmZone IntrusionAlarmZone;  
    BS2AlarmZoneMember* memberObjs;  
    BS2AlarmZoneInput* inputObjs;  
    BS2AlarmZoneOutput* outputObjs;  
    BS2CSNCard* cardObjs;  
    BS2_DOOR_ID* doorIDs;  
    BS2_ACCESS_GROUP_ID* groupIDs;  
} BS2IntrusionAlarmZoneBlob;
```

1. *IntrusionAlarmZone*

2. *memberObjs*

IntrusionAlarmZone.numReaders

3. *inputObjs*

IntrusionAlarmZone.numInputs

4. *outputObjs*

IntrusionAlarmZone.numOutputs

5. *cardObjs*

IntrusionAlarmZone.numCards

Smartcard API

6. *doorIDs*

IntrusionAlarmZone.numDoors

7. *groupIDs*

IntrusionAlarmZone.numGroups

BS2DeviceZoneEntranceLimitMaster

```
typedef struct {
    char name[BS2_MAX_ZONE_NAME_LEN];
    uint8_t type;
    uint8_t reserved1[3];
    uint32_t entryLimitInterval_s;
    uint8_t numEntranceLimit;
    uint8_t numReaders;
    uint8_t numAlarm;
    uint8_t numBypassGroups;
    uint8_t maxEntry[BS2_MAX_ENTRANCE_LIMIT_PER_ZONE];
    uint32_t periodStart_s[BS2_MAX_ENTRANCE_LIMIT_PER_ZONE];
    uint32_t periodEnd_s[BS2_MAX_ENTRANCE_LIMIT_PER_ZONE];
    BS2DeviceZoneEntranceLimitMemberInfo
    readers[BS2_MAX_READERS_PER_DEVICE_ZONE_ENTRANCE_LIMIT];
    BS2Action alarm[BS2_MAX_DEVICE_ZONE_ENTRANCE_LIMIT_ALARM_ACTION];
    BS2_ACCESS_GROUP_ID
    bypassGroupIDs[BS2_MAX_BYPASS_GROUPS_PER_DEVICE_ZONE_ENTRANCE_LIMIT];
    uint8_t reserved3[8 * 4];
} BS2DeviceZoneEntranceLimitMaster;
```

1. *name*

BioStar

2. *type*


```

    BS2_IPV4_ADDR masterIP;
} BS2DeviceZoneEntranceLimitMember;

```

1. *masterPort*

master port

2. *actionInDisconnect*

Disconnect

1	Soft EntranceLimit Disconnected action() 가
2	Hard EntranceLimit Disconnected action()

3. *reserved1[3]*4. *masterIP*

master IP

BS2DeviceZoneFireAlarmMaster

```

typedef struct {
    char name[BS2_MAX_ZONE_NAME_LEN];
    uint8_t numReaders;
    uint8_t numAlarm;
    uint8_t reserved1[2];
    BS2DeviceZoneFireAlarmMemberInfo
readers[BS2_MAX_READERS_PER_DEVICE_ZONE_FIRE_ALARM];
    BS2Action alarm[BS2_MAX_DEVICE_ZONE_FIRE_ALARM_ALARM_ACTION];
    uint8_t reserved2[8 * 40];
} BS2DeviceZoneFireAlarmMaster;

```

1. *name*

BioStar

2. *numReaders*3. *reserved1*4. *readers*5. *alarm*

5

6. *reserved2*

BS2DeviceZoneFireAlarmMember

```

typedef struct {
    BS2_PORT masterPort;
    uint8_t reserved1[2];
    BS2_IPV4_ADDR masterIP;
    uint8_t numSensors;
    uint8_t numDoors;
    uint8_t reserved2[2];
    BS2DeviceZoneFireSensor
sensor[BS2_MAX_FIRE_SENSORS_PER_DEVICE_ZONE_FIRE_ALARM_MEMBER];
    union {
        BS2_DOOR_ID
doorIDs[BS2_MAX_DOORS_PER_DEVICE_ZONE_FIRE_ALARM_MEMBER];
        BS2_LIFT_ID
liftIDs[BS2_MAX_DOORS_PER_DEVICE_ZONE_FIRE_ALARM_MEMBER];
    };
} BS2DeviceZoneFireAlarmMember;

```

1. *masterPort*

master port

2. *reserved1*

3. *masterIP*

master IP

4. *numSensors*

5. *numDoors*

6. *reserved2*

7. *sensor*

8

8. *doorIDs*

8

9. *liftIDs*

Lift

8

BS2DeviceZoneFireAlarmMemberInfo

```
typedef struct {
    uint32_t readerID;
} BS2DeviceZoneFireAlarmMemberInfo;
```

- 1. *readerID*

BS2DeviceZoneFireSensor

```
typedef struct {
    uint32_t deviceID;
    uint8_t port;
    uint8_t switchType;
    uint16_t duration;
} BS2DeviceZoneFireSensor;
```

- 1. *deviceID*
- 2. *port*
- 3. *switchType*

0	
1	

- 4. *duration*

millisecond

BS2DeviceZone

```
typedef struct {
    uint32_t zoneID;
    uint8_t zoneType;
    uint8_t nodeType;
    uint8_t enable;
    uint8_t reserved[1];
    union {
        BS2DeviceZoneEntranceLimitMaster entranceLimitMaster;
        BS2DeviceZoneEntranceLimitMember entranceLimitMember;
        BS2DeviceZoneFireAlarmMaster fireAlarmMaster;
        BS2DeviceZoneFireAlarmMember fireAlarmMember;
    };
};
```

```
};
} BS2DeviceZone;
```

- 1. *zoneID* 1 가 .
- 2. *zoneType* .
- 3. *nodeType* .
- 4. *enable* flag .
- 5. *reserved[1]* .

BS2DeviceZoneAGEntranceLimit

```
typedef struct {
  uint32_t zoneID;
  uint16_t numAGEntranceLimit;
  uint16_t reserved1;
  uint32_t periodStart_s[BS2_MAX_ENTRANCE_LIMIT_PER_ZONE];
  uint32_t periodEnd_s[BS2_MAX_ENTRANCE_LIMIT_PER_ZONE];
  uint16_t numEntry[BS2_MAX_ENTRANCE_LIMIT_PER_ZONE];
  uint16_t
maxEntry[BS2_MAX_ENTRANCE_LIMIT_PER_ZONE][BS2_MAX_ACCESS_GROUP_ENTRANCE_LIMI
T_PER_ENTRANCE_LIMIT];
  uint32_t
accessGroupID[BS2_MAX_ENTRANCE_LIMIT_PER_ZONE][BS2_MAX_ACCESS_GROUP_ENTRANCE
_LIMIT_PER_ENTRANCE_LIMIT];
} BS2DeviceZoneAGEntranceLimit;
```

- 1. *zoneID* 1 가 .
- 2. *numAGEntranceLimit* .
- 3. *reserved1* .
- 4. *periodStart_s* 가 .
- 5. *periodEnd_s* 가 .
- 6. *numEntry* .

7. *maxEntry*

8. *accessGroupID*

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