

[BioStar 2, Device time](#)

How to set BioStar 2 and device time

This document will guide you to understand a way to set BioStar 2 and device time properly.

Server Time Setting

1. Go to **Setting > Preference**.



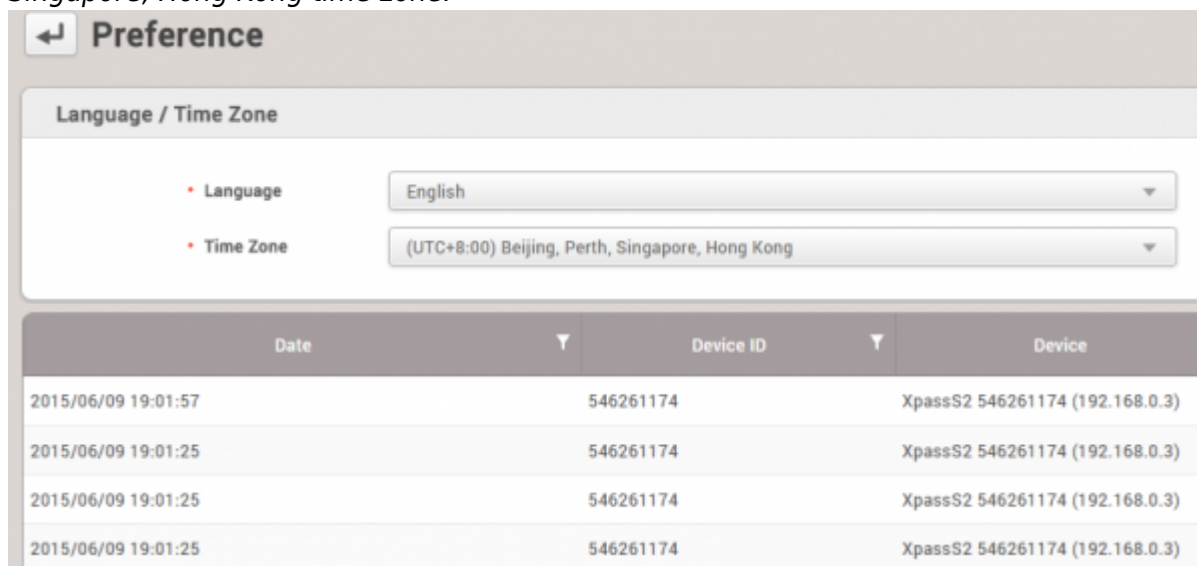
The screenshot shows the 'Preference' screen with a 'Language / Time Zone' section. The 'Language' dropdown is set to 'English'. The 'Time Zone' dropdown is set to '(UTC+9:00) Seoul, Tokyo, Osaka, Sapporo, Yakutsk'.

2. With BioStar 2, the server UTC time zone is selectable. By changing the time setting, you can see the event time logs based on the selected time zone.

For example, the event logs are shown as below date and time with (UTC+9:00) Seoul, Tokyo, Osaka, Sapporo, Yakutsk time zone setting.

Date	Device ID	Device
2015/06/09 20:01:57	546261174	XpassS2 546261174 (192.168.0.3)
2015/06/09 20:01:25	546261174	XpassS2 546261174 (192.168.0.3) 4
2015/06/09 20:01:25	546261174	XpassS2 546261174 (192.168.0.3) 3
2015/06/09 20:01:25	546261174	XpassS2 546261174 (192.168.0.3) 2

The same event logs are shown as below after changing to one hour early (UTC+8:00) Beijing, Perth, Singapore, Hong Kong time zone.



The screenshot shows the 'Preference' screen with the 'Time Zone' dropdown set to '(UTC+8:00) Beijing, Perth, Singapore, Hong Kong'. Below the settings is a table of event logs.

Date	Device ID	Device
2015/06/09 19:01:57	546261174	XpassS2 546261174 (192.168.0.3)
2015/06/09 19:01:25	546261174	XpassS2 546261174 (192.168.0.3)
2015/06/09 19:01:25	546261174	XpassS2 546261174 (192.168.0.3)
2015/06/09 19:01:25	546261174	XpassS2 546261174 (192.168.0.3)

So, it's necessary to set the time zone according to your location. The reason of this selectable option is to allow users from different time zones to be able to monitor event logs based on their time zones regardless of the server time.

Device Time Setting

1. Go to **Device** → **Information**.

The screenshot shows the 'Information' tab of the BioStar 2 interface. It contains the following fields and controls:

- Name:** BioStation 2 189000007 (192.168.16.205)
- Device ID:** 100000007
- Firmware Version:** 1.0.1
- Factory Default:** Reset button
- Group:** All Devices (dropdown)
- Device Type:** BioStation 2
- Product Name:** BS2-OMPW
- Time Zone:** (UTC+9:00) Seoul, Tokyo, Osaka, Sapporo, Yakutsk (dropdown)
- Time Synchronization with Server:** ☒
- System:**
 - Display Date:** 2015/06/15
 - Time:** 17:11:15
 - Get Time** and **Set Time** buttons

2. The default is to use **Time Synchronization with Server**. With this option, the device time keeps checking the server time and making sync based on the server time.

By disabling the sync option, the device date and time can be manually configurable. However, in order to maintain the consistency of event date and time, it's not recommended.

The screenshot shows the 'System' tab of the BioStar 2 interface. The 'Time Synchronization with Server' checkbox is unchecked. The 'Display Date' is 2015/06/15 and the 'Time' is 17:11:15. The 'Get Time' and 'Set Time' buttons are visible.

From the device, the device time zone can be set to use a different time zone. Once it's changed to use a different time zone, the device time display is changed to show that time zone. For the devices without display, the internal time clock is changed.

[Device Time]

The screenshot shows the 'Device Time' settings. The 'Time Synchronization with Server' checkbox is checked. The 'Time Zone' is set to (UTC+10:00) Eastern Australia, Guam, Vladivostok.

[Server Time]

The screenshot shows the 'Server Time' settings. The 'Language' is set to English and the 'Time Zone' is set to (UTC+9:00) Seoul, Tokyo, Osaka, Sapporo, Yakutsk.

From the monitoring, you can check the device event logs based on the server time zone, even though the device display shows a different time.

[Real-time Log]

Date	Door	Device ID
2015/06/15 15:18:56		100000007
2015/06/15 15:16:57		100000007

This is mainly because the device time zone setting is to support the case of managing devices in different locations from one single server.

Access Group Time Zone Setting

If you have branches in different time zones, the access control time will need to be different based on their time zones.



For example, at HQ, it has an access group rule that employees can enter the office from 7 AM to 4 PM during weekdays. With the device time zone setting, the same rule can be easily applied to the devices in different time zones.

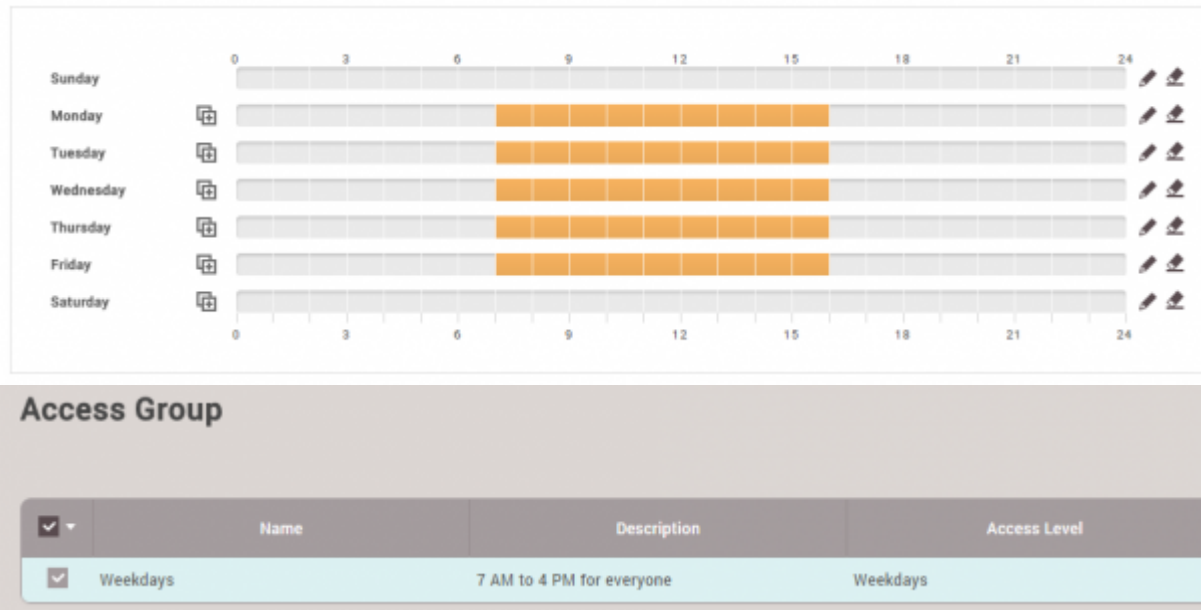
The server time zone is set to be as below.

[Server Time]

Language / Time Zone	
• Language	English ▼
• Time Zone	(UTC+9:00) Seoul, Tokyo, Osaka, Sapporo, Yakutsk ▼

- Current Time is 15:56
- Two devices and doors are created.

Here, for example, the below time zone is created and used for the access group setting.



With the same device time zone, both devices are showing access granted events.

Date	Door	Device ID	Device	User	Event
2015/06/15 15:56:34	Beijing	100098807	BioStation 2 100000007 (192.168.1.1)		LOCKED
2015/06/15 15:56:10	Seoul	546261174	Xpass52 546261174 (192.168.1.1)		LOCKED
2015/06/15 15:56:31	Beijing	100098807	BioStation 2 100000007 (192.168.1.1)		UNLOCKED
2015/06/15 15:56:31		100098807	BioStation 2 100000007 (192.168.1.1)	2	VERIFY_SUCCESS_CARD
2015/06/15 15:56:07	Seoul	546261174	Xpass52 546261174 (192.168.1.1)		UNLOCKED
2015/06/15 15:56:07		546261174	Xpass52 546261174 (192.168.1.1)	2	VERIFY_SUCCESS_CARD

Change to BioStation 2 device time zone to be one hour late.

Time Zone

(UTC+10:00) Eastern Australia, Guam, Vladivostok

☒ Time Synchronization with Server

From BioStation 2 device, the access denied event is shown for the same auth try.

Date	Door	Device ID	Device	User	Event
2015/06/15 15:58:17		100000007	BioStation 2 100000007 (192.168.1.1)	2	ACCESS_DENIED_ACCESS_GROUP
2015/06/15 15:57:55	Seoul	546261174	Xpass52 546261174 (192.168.1.1)		LOCKED
2015/06/15 15:57:52	Seoul	546261174	Xpass52 546261174 (192.168.1.1)		UNLOCKED
2015/06/15 15:57:52		546261174	Xpass52 546261174 (192.168.1.1)	2	VERIFY_SUCCESS_CARD

Conclusion : Device time zone is necessary to be used to control devices in different time zone.

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