ADVANTECH Enabling an Intelligent Planet

Advantech AE Technical Share Document

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Category	■FAQ □SOP	**Related OS**	N/A
Abstract	How to setup push notification whenever DO changes of state?		
Keyword	DO, push, notification		
Related Product	WISE-4000		

■ **Problem Description:**

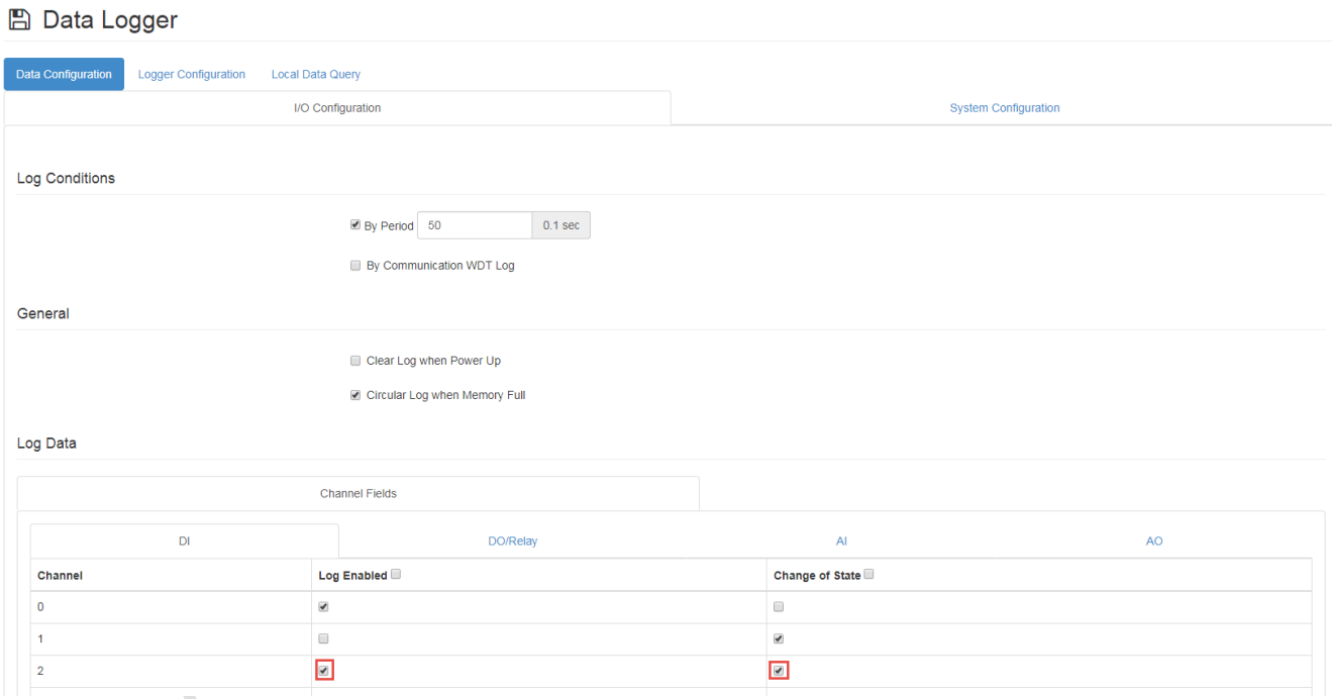
This document shows how to setup push notification whenever DO changes of state.

■ **Answer:**

The setup of pushing notification whenever DO changes as followings.

1. The first step is to set up in "Advanced" ➔ "Data Logger".

1.1 Select the DO channel you want to log when there is changing of state.



1.2 If you want to log whenever changing state of channel 2, please select **Change of State** by channel 2.

1.3 If there is no state changes, the channel 0 and channel 2 would be logged periodically.

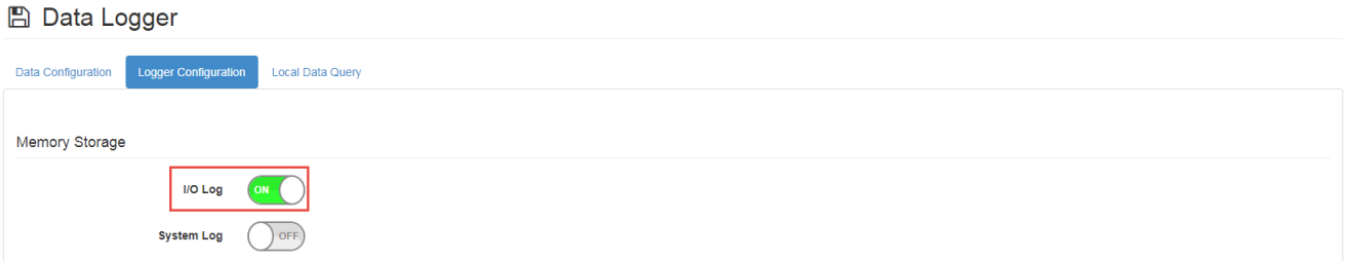
1.4 If state of channel 2 is changed, the logger would be triggered.

If you only want to log whenever channel 2 changes its state, and don't want to log periodically, please un-check **By Period** in Log Conditions.

1.5 Additional remarks:

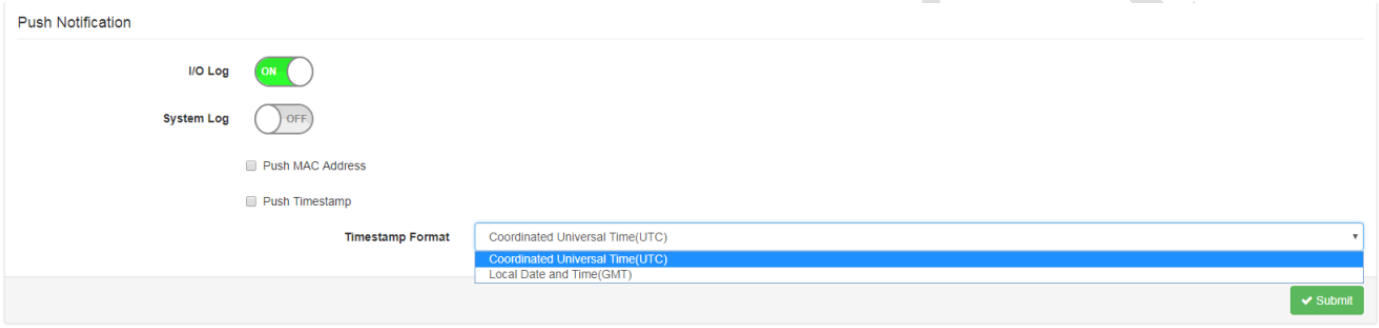
If the **Log Enabled** is not checked, the WISE will **not** log even the state is changed. Therefore, for channel 1, it would **not** be logged even when the state is changed.

2. The second setting is in “Logger Configuration.”



2.1 To record I/O log, please turn on **I/O Log** button in Memory Storage.

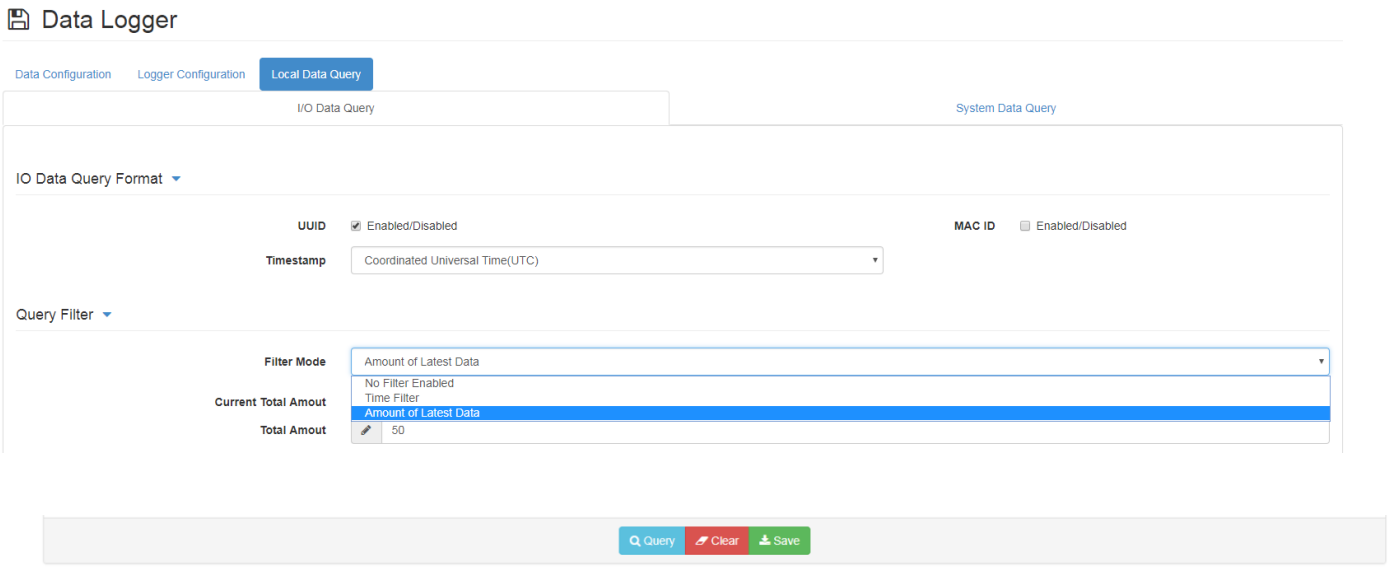
2.2 For the “Push Notification,” if you want to push I/O Log with JSON file in real time, then turn on **I/O Log** button in Push Notification.



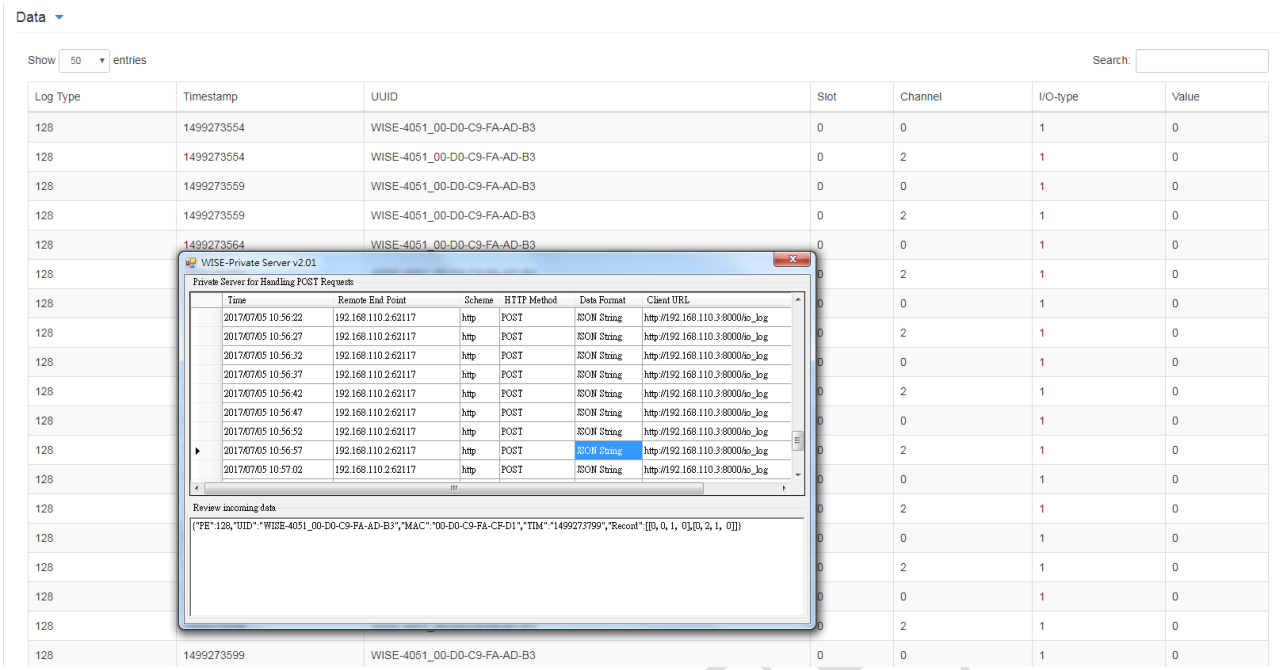
2.3 You could choose the Timestamp Format as Coordinated Universal Time (UTC) or Local Date and Time (GMT) base on your need.

3. Experimental results show in “Data Logger” ➔ “Local Data Query”

3.1 In Local Data Query, you could use filter to select the I/O Data.
There are three options you could use: No Filter Enabled/ Time Filter/ Amount of Latest Data. We could use “Amount of Latest Data” for query latest data, and press **Query** button.



3.2 If there is no state changed, the log is recorded periodcally.

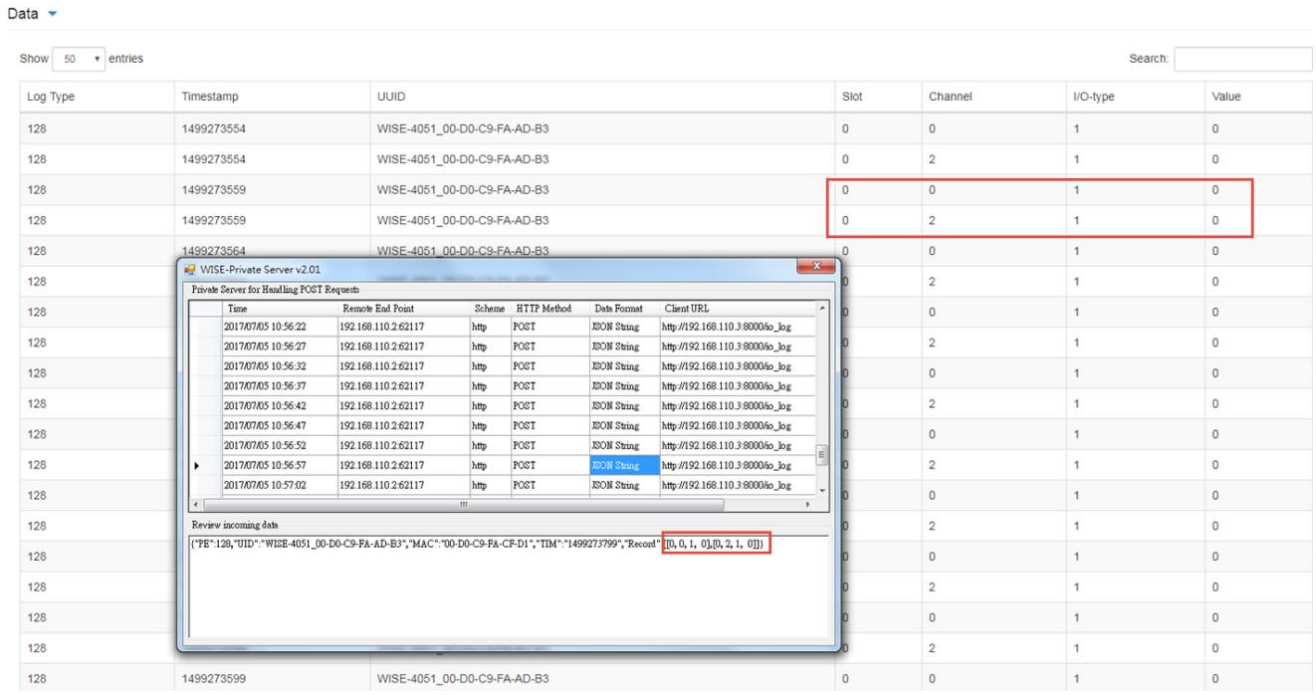


From the querried data, we could note that channel 0 and channel 2 are logged periodically.

Meanwhile, checking with our private server, we could note that JSON file is pushed periodically

3.2.1 In the pushed JSON log, the record is [0, 0, 1, 0] and [0, 2, 1, 0].

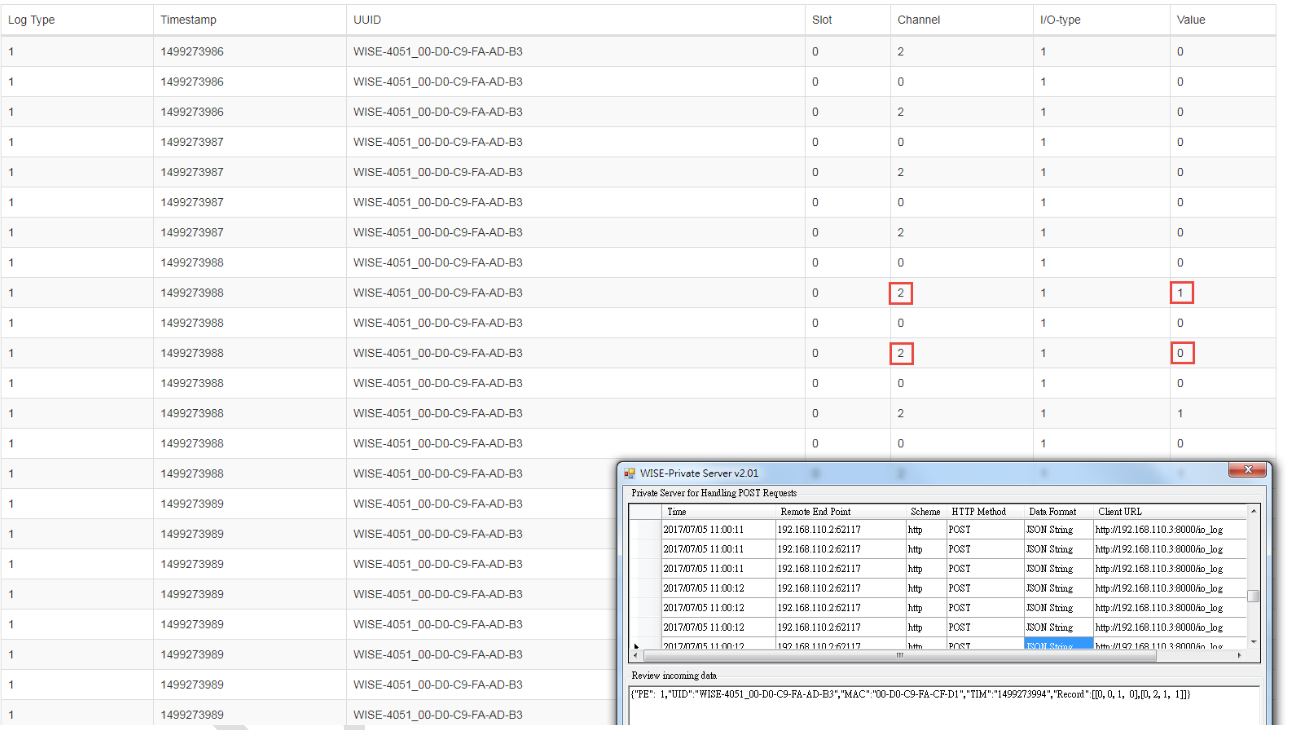
The information in the array is as follows: [Slot-index, Channel-index, I/O-type-index, I/O-value]. In other words, the values of channel 0 and channel 2 are both 0.



3.2.2 The Log Type "128" means Periodic logs based on User Manual Description.

Field	Abbreviations	Data type	Property	Description
Periodic/Event	128	Number	R	Recording mode of storage 1 — Event from — DI 2 — Event from — DO 4 — Event from — AI 8 — Event from — AO 16 — Event from — WDT 128 — Periodic

3.3 If there is changing state of channel 2, then the log would be recorded and pushed.



Log Type	Timestamp	UUID	Slot	Channel	I/O-type	Value
1	1499273986	WISE-4051_00-D0-C9-FA-AD-B3	0	2	1	0
1	1499273986	WISE-4051_00-D0-C9-FA-AD-B3	0	0	1	0
1	1499273986	WISE-4051_00-D0-C9-FA-AD-B3	0	2	1	0
1	1499273987	WISE-4051_00-D0-C9-FA-AD-B3	0	0	1	0
1	1499273987	WISE-4051_00-D0-C9-FA-AD-B3	0	2	1	0
1	1499273987	WISE-4051_00-D0-C9-FA-AD-B3	0	0	1	0
1	1499273987	WISE-4051_00-D0-C9-FA-AD-B3	0	2	1	0
1	1499273988	WISE-4051_00-D0-C9-FA-AD-B3	0	0	1	0
1	1499273988	WISE-4051_00-D0-C9-FA-AD-B3	0	2	1	1
1	1499273988	WISE-4051_00-D0-C9-FA-AD-B3	0	0	1	0
1	1499273988	WISE-4051_00-D0-C9-FA-AD-B3	0	2	1	0
1	1499273988	WISE-4051_00-D0-C9-FA-AD-B3	0	0	1	0
1	1499273988	WISE-4051_00-D0-C9-FA-AD-B3	0	2	1	1
1	1499273988	WISE-4051_00-D0-C9-FA-AD-B3	0	0	1	0
1	1499273988	WISE-4051_00-D0-C9-FA-AD-B3				
1	1499273989	WISE-4051_00-D0-C9-FA-AD-B3				
1	1499273989	WISE-4051_00-D0-C9-FA-AD-B3				
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1	1499273989	WISE-4051_00-D0-C9-FA-AD-B3				
1	1499273989	WISE-4051_00-D0-C9-FA-AD-B3				
1	1499273989	WISE-4051_00-D0-C9-FA-AD-B3				
1	1499273989	WISE-4051_00-D0-C9-FA-AD-B3				

3.3.1 Whenever changing state of channel 2, the logger would be triggered. Please be noted that whenever triggering the logger, each channel with **Log Enable** would have an updated record. In this case, channel 0 would also have an updated record.

3.3.2 However, since the **Log Enable** of channel 1 is not checked, even channel 1 state is changed, the logger would not be triggered.