**WdPublisher Software Specification**

**Revision 0.9**

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**Overview**

This document describes the definition and description of the Publisher’s state machine.

**1. Software Operation Specification**

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**2. State Machine Definition**

T5

T5

T5

Neutral

T1

T2

T2

T3

Active

Idle

T4

**Fig.** State transition diagram of Publisher

T0

|  |  |
| --- | --- |
| **State Name** | **Description** |
| Start | Power off or boot up the Publisher device. After the booting device up, the state is automatically transited to Neutral. |
| Neutral | Application is running, Establish allowing BT connection by Remote Controller |
| Active | Handle SmartPad, Keep BT connection to Controller, IP connection to Broker is established. Send stroke packet to Broker every time SmartPad send. |
| Idle | Keep BT connection to Controller, Keep handling SmartPad, Keep IP connection to Broker, Do not send stroke packets to Broker. |

**3. Transition Definition**

|  |  |  |
| --- | --- | --- |
| **Symbols** | **Transition Name** | **Description** |
| T0 | Initialization | ScanAndConnect |
| T1 | RunPublisher | StartRealtimeInk, ConnectIP |
| T2 | StopPublisher | DisconnectIP |
| T3 | SuspendPublisher | StopRealtimeInk |
| T4 | ResumePublisher | StartRealtimeInk |
| T5 | ShutdownPublisher  RestartPublisher | StopRealtimeInk, DisconnectIP, Discard ScanAndConnect, Shutdown/Reboot |