

## **Intel iBtSiva for Bluetooth**

ibtsiva is a Win32 service (see [http://msdn.microsoft.com/en-us/library/windows/desktop/ms685141\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/desktop/ms685141(v=vs.85).aspx)). It does not have any user interface (GUI) and runs in the background.

### **Purpose**

iBtSiva is capable of recovering Bluetooth device from yellow bang failures in Windows Device Manager.

### **Description**

iBtSiva employs device reset and driver restart techniques as applicable for recovering Bluetooth device from yellow bang failures.

As a service, it is configured to run on boot and installed to start automatically. Once it starts to run, it periodically (3 seconds once) checks if the Bluetooth device has failed and has an error or problem code (10,43 etc) (see <http://support.microsoft.com/kb/310123>). Once it determines that the device has failed, it attempts to bring the device to working state by performing hard reset (supported on 7260 only) or by disabling and re-enabling the driver (supported on 7265 and 8260). After the recovery attempt, it checks to see if the device is operational and in working state.

It continues to check the device state for 60 seconds with 3 seconds interval until device is operational before giving up. It terminates the device check once the device is operational and then it enters "stopped" state. In this stopped state, it does not perform any operations until next run.

## **Supported System Power states**

iBtSiva runs as soon as possible once the system boots into the Operating System and once the system resumes from any system power state such as S3, S4 and restart.

It terminates its operation after 60 seconds if the Bluetooth device has failed. It terminates its operation immediately if the Bluetooth device is functional.

iBtSiva does not run on resume from low power system states such as Connected Standby.

## **Device Power states**

iBtSiva does not interfere with Bluetooth device power states such as D0 to D2/D3 and D2/D3 to D0 transitions.

## **Power impact**

iBtSiva runs for 60 seconds in 3 seconds interval immediately on resume from system power state. It ceases its operation immediately if Bluetooth device is functional. Hence, it has very little or no impact on system Battery life.

## **RFKILL & Device disable states**

iBtSiva ignores if the Bluetooth device is in RFKILL state or if the Bluetooth device driver has been disabled by the user. iBtSiva does not treat these states as problematic.

## **WHCK Environment**

iBtSiva does not run and interfere with WHCK testing when installed. On start, it checks for presence of WHCK

environment and immediately ceases its operation staying in “stopped” state.

### **WiFi and other compatibility issues**

iBtSiva does not interfere with WiFi networking stack and has no known compatibility issues with any other services.

### **Logging**

iBtSiva supports logging for troubleshooting purpose and it is completely disabled by default.

### **Known Issues**

None

### **Supported operating system(s)**

Windows 7 32/64  
Windows 8 32/64  
Windows 8.1 32/64  
Windows 10 32/64