

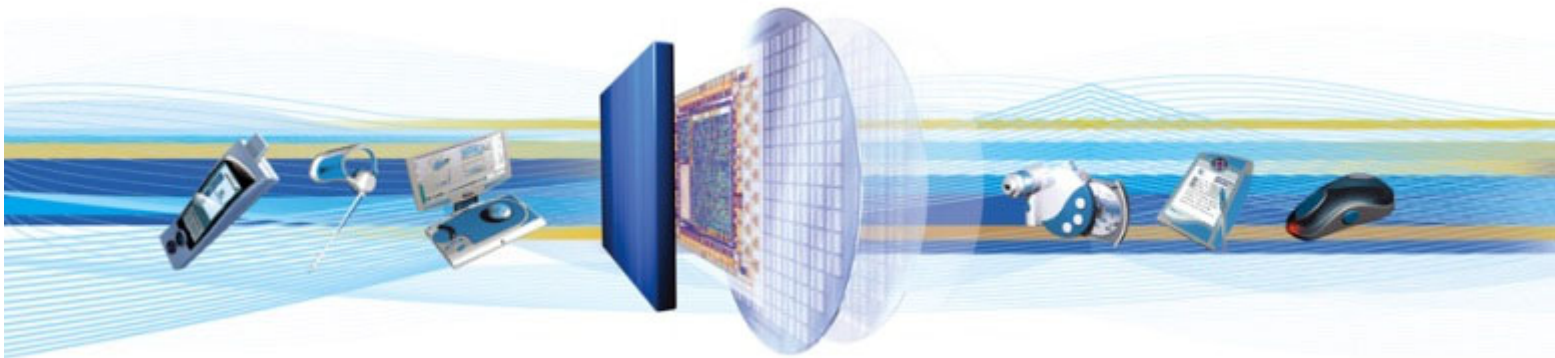


BlueCore®

BlueTunes® Configuration Tool

User Guide

Issue 1



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1 Introduction

This document describes the BlueTunes Configuration Tool. The BlueTunes Configuration Tool is an easy to use utility that can be used to customise the full range of Headset Human Machine Interface (HMI) configuration settings supported in the BlueTunes ROM 2008 and Stereo Headset 2008 R1 SDK.

PS Key configuration settings can be read into the Configuration Tool from:

- One of the default configuration .psr files shipped with the BlueTunes Configuration Tool:
 - SDK_2008_R1_default_config.psr
 - ROM_2008_default_config.psr
- A previously saved user-generated .psr file
- A connected device

Default 6 button configurations for the BlueTunes ROM device and the CSR's 1645 development platform are provided. These default configurations provides a viable HMI for the target device that can be used as supplied or customised by the manufacturer, using the BlueTunes Configuration Tool.

Settings defined in the BlueTunes Configuration Tool can be saved as a .psr file or downloaded directly to the Persistent Store (PS) of a connected device. See Section 2.5.

2 Using the BlueTunes Configuration Tool

This section describes how to use the BlueTunes Configuration Tool. The *Configuration PS Key Bit Fields* application notes describe the PS Key bit fields that hold the configuration values set using the Configuration Tool.

2.1 Opening the Configuration Tool

You can click on the shortcut created on the desktop, see Figure 2.1, if you selected this option during the install.



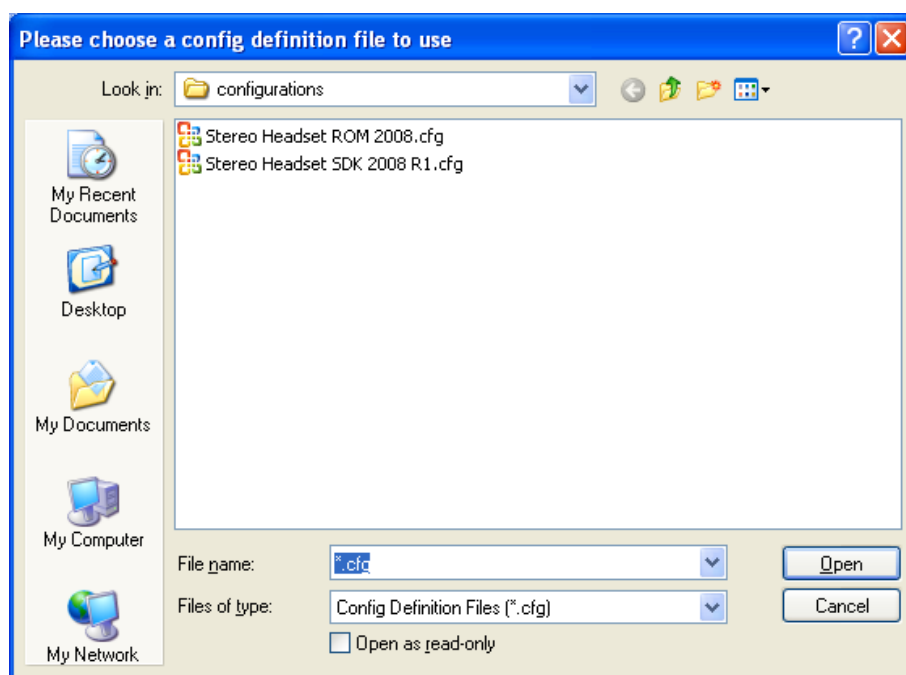
Figure 2.1: Configuration Tool Desktop Shortcut

Alternatively the BlueTunes Configuration Tool can be opened from the Windows **Start** menu:

Start\All Programs\BlueTunes Configuration Tool\BlueTunes Configuration Tool

2.1.1 Selecting Initial Configuration Settings

Before the application can open you must select a configuration file from the **Please choose a config definition file to use** window:



1. Select the required .cfg file.
2. Click **Open**.

2.2 Selecting the Transport

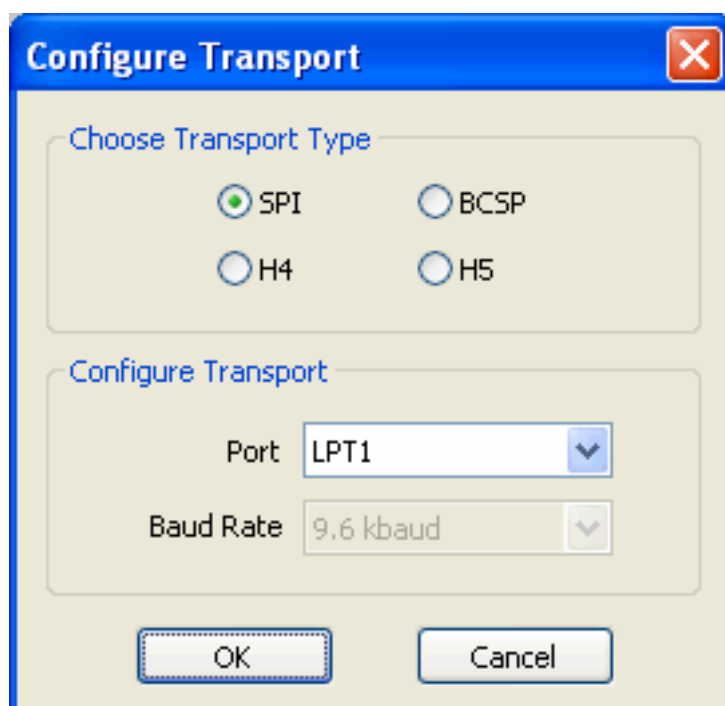
The BlueTunes Configuration Tool application can communicate with devices using the following transport protocols:

- SPI
- BCSP
- H4
- H5

To Select the Transport Protocol:

1. Select **Configure Transport** from the **Tools** menu.

The **Configure Transport** window appears:



2. Select the required transport protocol and associated configuration setting from the available options and click **OK**.

Note:

The application's default transport is SPI, Parallel Port LPT1. If the Transport method is changed, the newly applied transport method is retained until manually changed.

2.3 Loading Configuration Settings

Using the menus or button options available the BlueTunes Configuration Tool can be loaded with configuration setting from:

- One of the default .psr files shipped with the BlueTunes Configuration Tool.
- A user saved .psr file
- A connected device

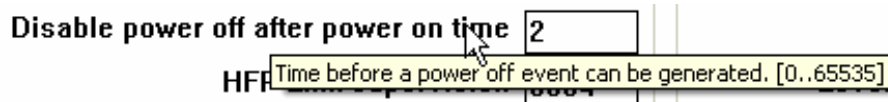
2.4 Editing Configuration Settings

The loaded configuration settings are changed using the option fields, or the pop-up **Edit** windows, provided in the various tabs:

- System
- Features
- Buttons
- System Events
- LED States
- LED Events
- LED Filters
- Tones
- Audio
- A2DP Codec Caps

The tabs group associated types of configuration, making it easier to locate specific configuration items.

Roll-over hints help users to use specific fields when configuring settings to suit individual devices e.g:



Note:

The *BlueTunes ROM Configuration PS Key Bit Fields* application note describes the bit field structure of the PS Key used to configure the BlueTunes ROM device.

2.5 Saving Configuration Settings

Using the menus or button options available the configuration settings shown in the BlueTunes Configuration Tool can be saved:

- To a .psr at a location selected in the **Save As** window
- or
- To a connected device

Note:

System and non-system configurations are saved to separate .psr files using the **Save System Settings to File** and **Save Non-system Settings to File** menu options.

When new configuration settings have been saved to a device it must be reset before the new settings are applied. A **Reset BlueCore** button allows you to reset the device from the BlueTunes Configuration Tool application.

3 Description of the BlueTunes Configuration Tool Workspace

This section describes the BlueTunes Configuration Tool GUI.

Figure 3.1 shows the window that appears when you open the BlueTunes Configuration Tool application.

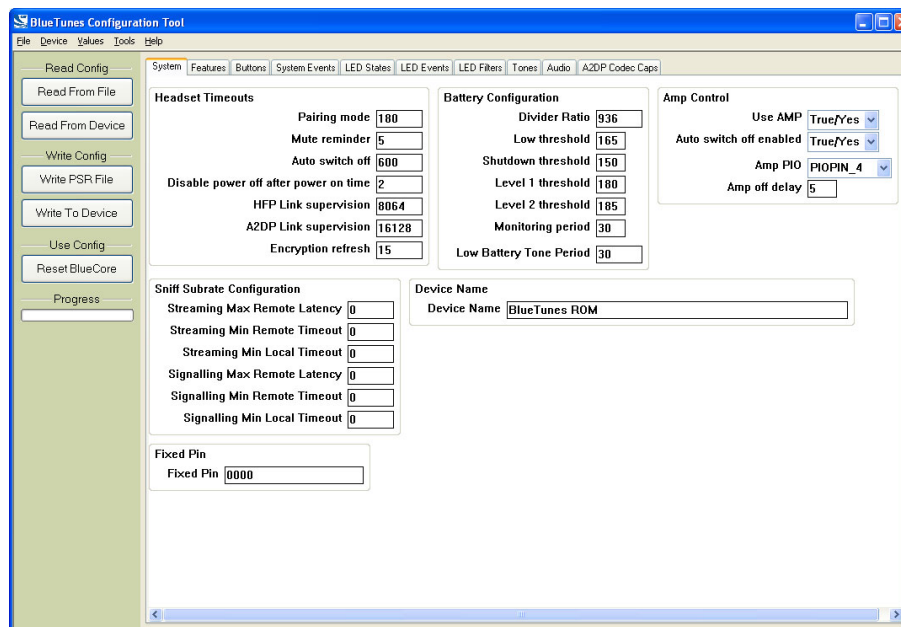


Figure 3.1: BlueTunes Configuration Tool Opening Window

3.1 Functionality

The full functionality provided by the BlueTunes Configuration Tool is accessed through menus in the menu bar. Buttons are provided to support the most commonly required functions.

This section describes the menus, menu items and their functions.

3.1.1 File Menu

The **File** menu contains:

- **Load Config From File:** Loads configuration settings from a .psr file. An **Open** window allows the you to browse to a location and select the .psr file to be used.
- **Save Config To File:** Saves the currently displayed settings to a .psr file.
- **Save System Setting to File:** Saves non-application specific PS Key configuration settings, e.g. PIN code, Bluetooth Address etc, to a .psr file. A **Save As** window allows you to browse to the location you wish to save the file to.
- **Save Non-system Setting to File:** Saves application e.g. LED events, button assignment etc, related configuration settings to a .psr file. A **Save As** window allows you to browse to the location you wish to save the file to.

3.1.2 Device Menu

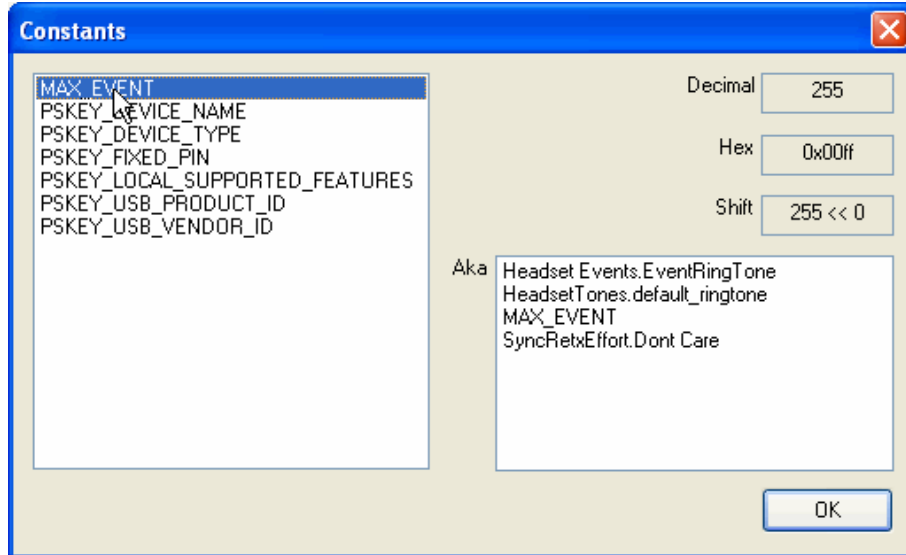
The **Device** menu contains:

- **Load Config From device:** Loads the configuration settings on a connected device into the BlueTunes Configuration Tool and displays them in the appropriate display tabs
- **Save Config to Device:** Saves the configuration settings displayed in the BlueTunes Configuration Tool to an the connected device.

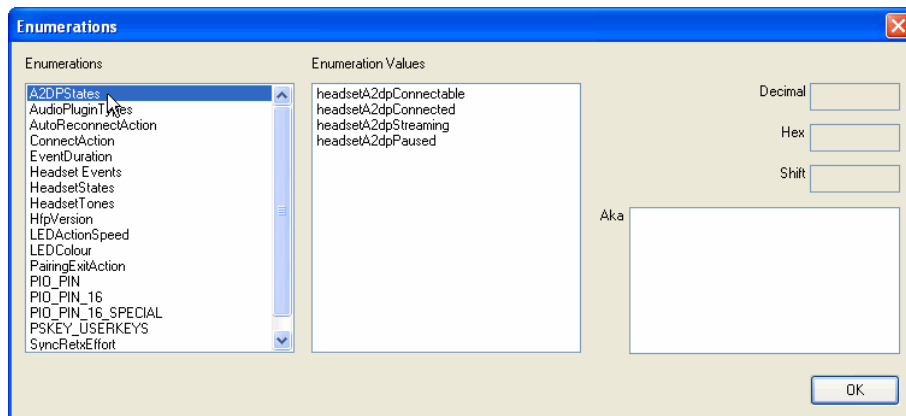
3.1.3 Values Menu

The **Values** menu contains:

- **Show Constants:** Opens the **Constants** window to display the constants defined in the application configuration:



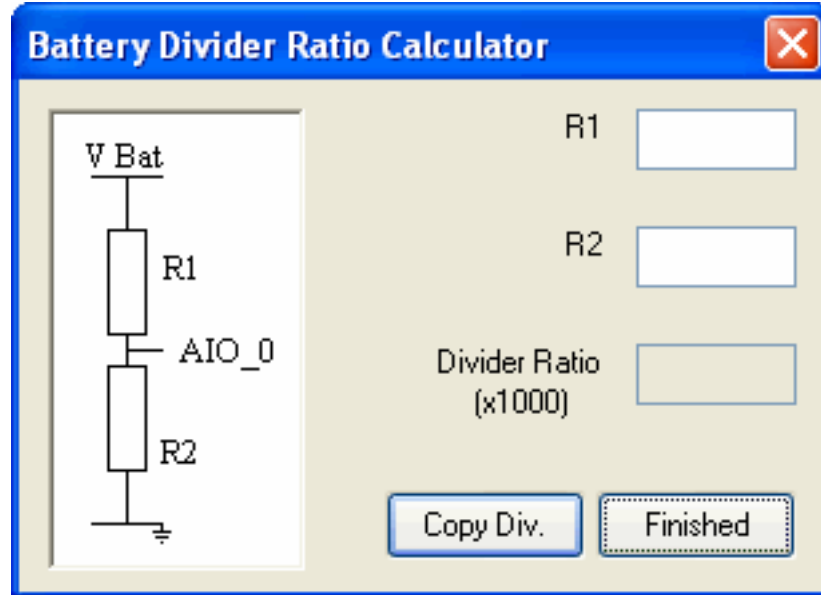
- **Show Enumerations:** Opens the **Enumerations** window to display the enumerations defined in the application configuration:



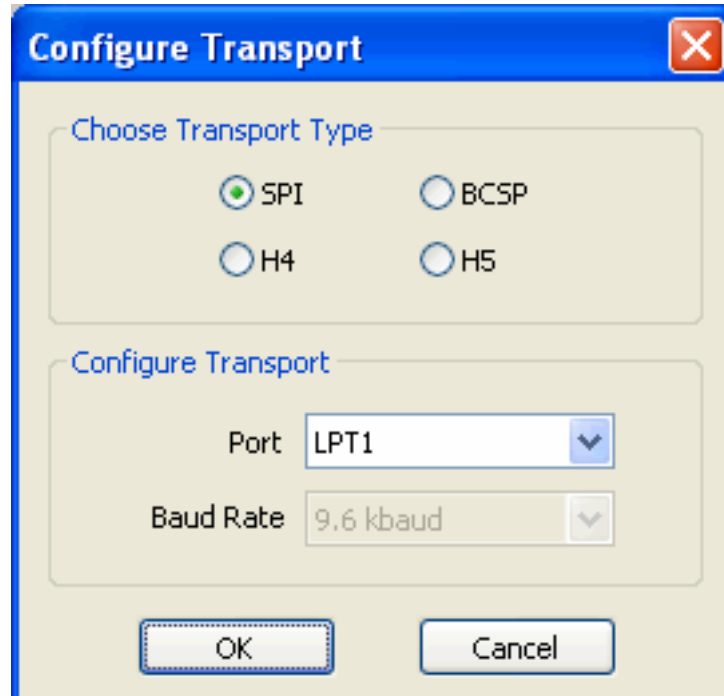
3.1.4 Tools Menu

The Tools menu contains:

- **Battery Divider Ratio Calculator:** This option opens a window that calculates the required BDR that should be entered in the **Divider Ratio** field in the **System** tab.



- **Reset Configuration:** Returns the configuration to the default configuration settings.
- **Configure Transport:** Opens a window used to configure the transport between the Configuration Tool application and the device:



3.1.5 Help Menu

The **Help** menu contains a menu option to display the **About** window that shows version information.

4 Document Reference

Document	Reference
<i>BlueTunes ROM Configuration PS Key Bit Fields</i>	CS-123223-AN
<i>Stereo Headset Configuration PS Key Bit Fields</i>	CS-123485-AN

Terms and Definitions

Term	Definition
BDR	Battery Divider Ratio
Bluetooth®	Set of technologies providing audio and data transfer over short-range radio connections
CSR	Cambridge Silicon Radio
GUI	Graphical User Interface
HMI	Human Machine Interface
PS	Persistent Store

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