



iWRAP6™ *Bluetooth* Software



Topics

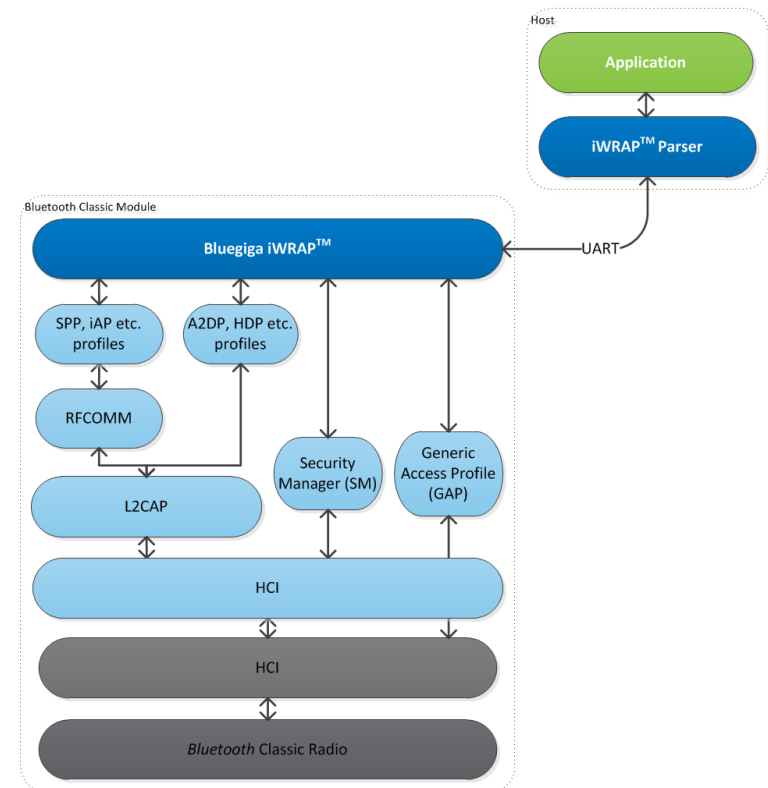
- iWRAP Introduction
- iWRAP6 Feature Highlights



Bluegiga iWRAP
Software

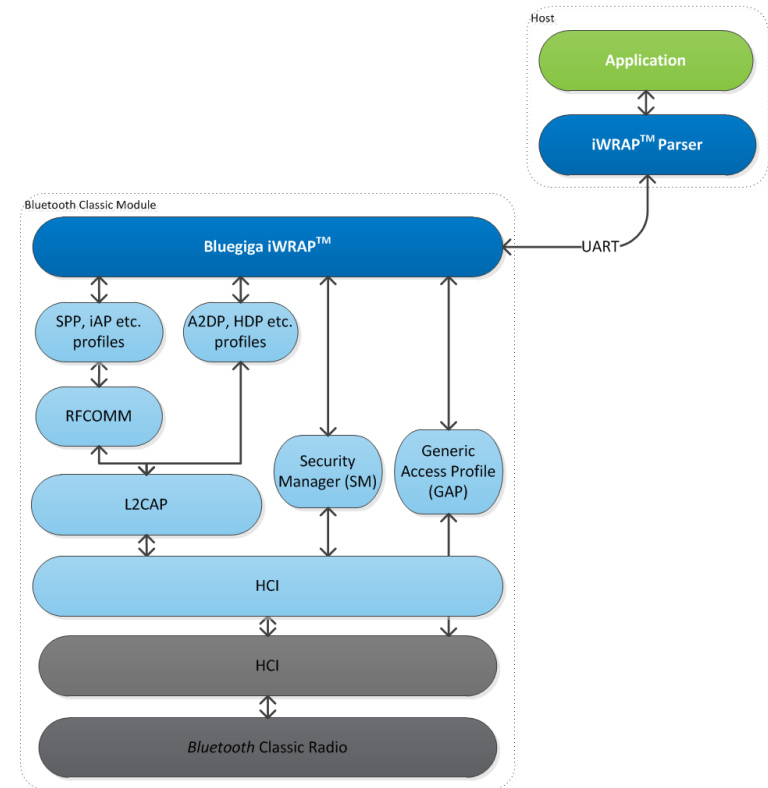
iWRAP Introduction

- **iWRAP™ is an embedded *Bluetooth* stack for Bluegiga's *Bluetooth* classic modules**
 - WT12, WT11i and WT41
 - WT32 and WT32i
- ***Bluetooth* 3.0 compliant**
 - Up to 7 simultaneous connections
 - 500+ kbps throughput over SPP
- **Implements 13 *Bluetooth* profiles**
 - **Audio:** A2DP, AVRCP v.1.5, HFP v1.6, HSP, PBAP and MAP
 - **Data:** SPP, OBEX and HID
- **Apple iAP1 and iAP2 Profiles**
 - Provides application connectivity to Apple iOS devices and MFI compatibility
- **iWRAP API for external host processors**
 - ASCII "AT-like" commands over UART
- **Field Upgradable**
 - DFU over UART support



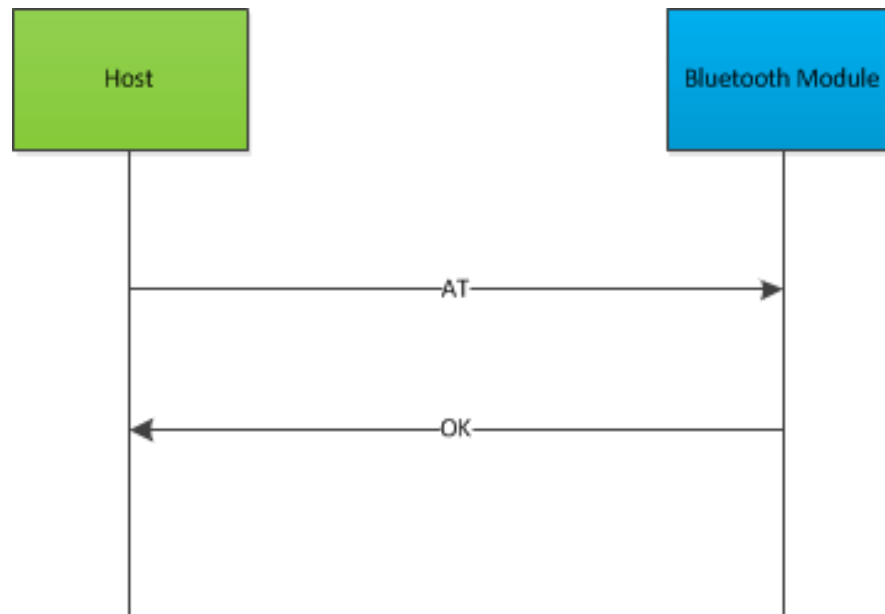
iWRAP Introduction

- **Bluetooth Data Profiles**
 - Serial Port Profile (SPP)
 - Human Interface Device (HID)
 - OBEX Object Exchange (OPP)
 - OBEX FTP (FTP)
 - Dial-up Networking (DUN)
 - Device Information (DI)
 - Health Device Profile (HFP)
- **Bluetooth Audio Profiles**
 - Advanced Audio Distribution Profile (A2DP)
 - A/V Remote Control Profile (AVRCP)
 - Hands-Free Profile v.1.6 with Wide Band Speed (HFP)
 - Headset Profile (HSP)
 - Phone Book Access Profile (PBAP)
 - Message Access Profile (MAP)
- **Apple MFI compliant**
 - Apple iAP1 and iAP2 Profiles
 - Provides application connectivity to Apple iOS devices
- **Bluegiga Proprietary Profiles**
 - Bluegiga I/O Profile (BGIO)
 - Over-the-Air Configuration Profile (OTA)



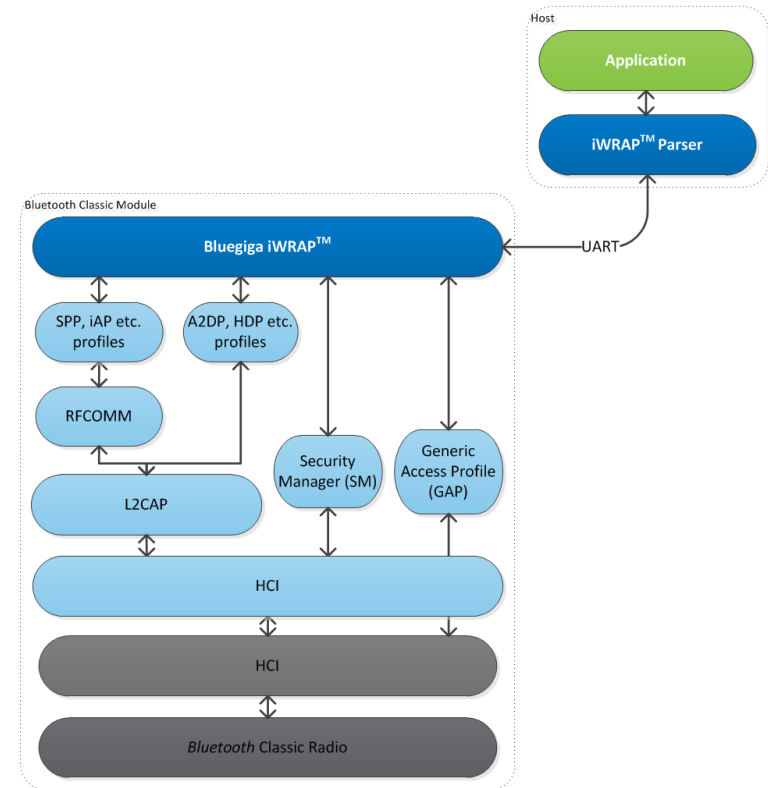
iWRAP Introduction

- **iWRAP™ protocol** : A simple ASCII based (AT like) command, response and event protocol between the host and the stack
 - Used when a separate host (MCU) is used to control WT32i over UART



iWRAP6 Feature Highlights

- **Apple iAP2 Profile**
 - Provides application connectivity to Apple iOS devices
 - iAP2 is the latest version of iAP required with Apple devices with lightning connector
- **AVRCP v.1.5**
 - Enables media browsing on a smart phone
 - Media search capability
 - Playlist management
- **Message Access Profile (MAP)**
 - Receive message notifications from the phone
 - Read SMS/email messages over *Bluetooth*
- **AAC Audio Decoder**
 - AAC improves audio quality over SBC
 - Supported on iOS devices
 - AAC needs a separate license:
<http://www.vialicensing.com/licensing/aac-fees.aspx>
 - AAC is mandatory in MFI compliant devices that support A2DP
- **External codec configuration over I2C**
 - iWRAP can configure external audio codec over I2C interface





Thank You



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