

IWRAP 5.5.0 AND 6.0.0

RELEASE NOTE

Monday, 24 November 2014

Version 1.4



Copyright © 2000-2014 Bluegiga Technologies

All rights reserved.

Bluegiga Technologies assumes no responsibility for any errors which may appear in this manual. Furthermore, Bluegiga Technologies reserves the right to alter the hardware, software, and/or specifications detailed here at any time without notice and does not make any commitment to update the information contained here. Bluegiga's products are not authorized for use as critical components in life support devices or systems.

The WRAP, Bluegiga Access Server, Access Point and iWRAP are registered trademarks of Bluegiga Technologies.

The *Bluetooth* trademark is owned by the Bluetooth SIG Inc., USA and is licensed to Bluegiga Technologies. All other trademarks listed herein are owned by their respective owners.

VERSION HISTORY

Version	Comment
1.0	First version
1.1	Release version
1.2	iWRAP6.0.0 build numbers updated
1.3	First maintenance release information added to Chapter 2
1.4	First maintenance release build numbers updated to Chapter 2

TABLE OF CONTENTS

1	Changes from iWRAP 5.0.2	5
1.1	Build numbers	5
1.2	Key features in iWRAP 5.5.0 (for WT11i, WT12 and WT41).....	5
1.3	Key features in iWRAP 6.0.0 (for WT32i)	5
1.4	Other new features	6
1.4.1	General features	6
1.4.2	A2DP profile features.....	6
1.4.3	AVRCP profile features.....	6
1.4.4	iAP profile features	6
1.5	Issues addressed.....	7
1.5.1	General issues	7
1.5.2	A2DP profile issues	8
1.5.3	AVRCP profile issues	8
1.6	Newly discovered known issues	8
2	Updates in iWRAP5.5.0 / 6.0.0.....	9
2.1	Build numbers	9
2.2	Issues addressed.....	9
2.2.1	General issues	9
3	Contact Information	10

1 Changes from iWRAP 5.0.2

1.1 Build numbers

- iWRAP 5.5.0 build 891 for WT11i, WT12 and WT41 (Generic build)
- iWRAP 5.5.0 build 893 for WT11i, WT12 and WT41 (iAP build for MFI licensees)
- iWRAP 6.0.0 build 897 for WT32i (Generic build)
- iWRAP 6.0.0 build 898 for WT32i (aptX build)
- iWRAP 6.0.0 build 899 for WT32i (iAP build for MFI licensees)

1.2 Key features in iWRAP 5.5.0 (for WT11i, WT12 and WT41)

- Apple iAP2 protocol support has been added.

1.3 Key features in iWRAP 6.0.0 (for WT32i)

- MAP notification and message download support has been added.
- Partial MAP message filtering support has been added.
- AVRCP 1.5 Controller and Target support has been added.
- Apple iAP2 support has been added.
- AAC support has been added.
- External I2S audio codec configuration support has been added.
- SET DEVKIT command to quickly configure WT32i development kit to be a wireless speaker. Exact configuration documented and explained in WT32i Development Kit User Guide.

1.4 Other new features

1.4.1 General features

- SET CONTROL AUDIO now allows setting the number of bits when configured as I2S master.
- LOOPBACK command has been added that allows directly routing an audio input to an output.
- A new “{pskey} ?” command to read the value of a PS key has been added.
- A new optional parameter has been added to SET BT MTU command to set SDP MTU. This allows increasing the MTU from the default of 48 to avoid fragmenting SDP records (required by Apple BTCT tool). IAP builds use a larger setting by default.
- A new parameter has been added to SET CONTROL PIO to set PIOs which are ignored for SET CONTROL BIND. This is required for SLEEP command to work when any inputs are held high.

1.4.2 A2DP profile features

- A new “APTX” command has been added to check for a valid aptX license key.

1.4.3 AVRCP profile features

- AVRCP Target update to version 1.5.

1.4.4 iAP profile features

- iAP now displays the protocol version in “IAP {linkid} OK {iapver}” print.

1.5 Issues addressed

1.5.1 General issues

- PSKEY_DEEP_SLEEP_ON_EITHER_LEVEL is now always written with DFU upgrade. This is required for the SLEEP fix.
- The low level CSR firmware has been updated to fix two issues: Disconnects due to RFCOMM_PEER_VIOLATED_FLOW_CONTROL errors should no longer happen (fixes the Known Issue IWRAP-578). SPDIF metadata no longer randomly indicates compressed audio.
- Setting an empty string with SET BT NAME no longer crashes iWRAP.
- INFO now displays the correct number of ACLs for WT32i.
- SET CONTROL PIO bias parameter is no longer ignored in some cases.
- The default supervision timeout has been lowered to 6 seconds from 20 seconds. This is to avoid excessively long delays when the connection breaks.
- HSP profile is now included in iAP builds.
- Memory allocation improvements on both BC4 and BC5 environments.
- CSR firmware updated to official release version (no new fixes).
- Bluegiga Support contact information updated.
- Updated default SDP MTU for SET DEVKIT and IAP builds.
- Do not ignore NO_AUTO_DATAMODE config bit in IAP.
- Disable pair count limiting with SET BT PAIRCOUNT 0.
- Display syntax error when 128-bit UUID has wrong format.
- AAX stream indicator GPIO doesn't work with KEEPALIVE flag.
- Fixed wrong profile version and removed leftover data that wasn't in any DataElementSequence in MAP MNS SDP record.
- Change SET C GAIN to be consistent with the other commands.
- SET listing now shows SET CONTROL CONFIG.
- Make AIO work on BC4.
- Limit SET BT NAME length to 140 chars.
- No longer complain about default BT IDENT when IAP is disabled.
- Fix SET BT IDENT to show correct IWRAP version.
- Show all data with INFO CONFIG command.
- Fixed SYNTAX ERROR wrongly appearing after the OBEX 0 FORBIDDEN in an OPP session.
- Fixed HID not going to data mode automatically.
- CONTROL CONFIG bit 12 set on by default.
- Update the "ANSWER" command with optional "audio_routing" parameter.

1.5.2 A2DP profile issues

- aptX codec has been updated to a newer version to improve audio quality. The new version always requires a valid aptX license key to start and will no longer work for 5 minutes without a valid license key.
- SBC codec has been updated to a newer version.
- A2DP commands are now automatically routed to the correct link if the currently selected link is not one. If multiple A2DP links are active, the first link shown by LIST command is used.
- SPDIF and I2S inputs have been fixed.
- SBC maximum bitpool is now set to the suggested 53 instead of 250.
- The version number stored in the A2DP SDP record has been fixed to 1.2.
- AAC and aptX codecs are no longer always enabled when compiled in the build and the other end initiates the connection.
- Not putting the target into active mode after streaming started, but letting the controller to do it.
- Max bitrate fixed for AAC.

1.5.3 AVRCP profile issues

- AVRCP commands are now automatically routed to the correct link if the currently selected link is not one. If multiple AVRCP links are active, the first link shown by LIST command is used.
- AVRCP profile is no longer included in BC4 (WT11i, WT12, WT41) builds by default.
- Removed unused flag in SET PROFILE AVRCP.
- Fix PDU_GET_CAPABILITIES response appending two zero bytes to the response.
- AVRCP features broadcast in the SDP record are now configurable with SET P AVRCP xx, bits 0-3 = categories 1-4 respectively, bit 4 = browsing.
- Upgraded AVRCP TG to version 1.5, added Absolute Volume support, fixed PDU_GET_CAPABILITIES response in MUX mode.
- Fixed missing space in some AVRCP TG prints.

1.6 Newly discovered known issues

- IWRAP-680: When connected to an iOS device and making an outgoing call, the existing connection may be closed with L2CAP_DISCONNECT_LINK_LOSS error if the outgoing call fails. Decreasing page timeout with SET BT PAGEMODE may help with this issue.

2 Updates in iWRAP5.5.0 / 6.0.0

2.1 Build numbers

- iWRAP 5.5.0 build 952 for WT11i, WT12 and WT41 (Generic build)
- iWRAP 5.5.0 build 953 for WT11i, WT12 and WT41 (iAP build for MFI licensees)
- iWRAP 6.0.0 build 952 for WT32i (Generic build)
- iWRAP 6.0.0 build 953 for WT32i (iAP build for MFI licensees)
- iWRAP 6.0.0 build 954 for WT32i (aptX build)
- iWRAP 6.0.0 build 955 for WT32i (CVC build for CVC licensees)

2.2 Issues addressed

2.2.1 General issues

- AVRCP browsing bit is enabled by default.
- Fixed SCO and A2DP volume to be same in CVC use cases.
- Fixed CVC codec being loaded when A2DP was supposed to be used in CVC use cases.
- Updated appmatch support for IAP2, added [,n] option after PROTO: string.
- Fixed raw HID output report problem with link classification.
- Add NOBROWSE option to remove IAP from SDP browsing results.
- Fixed HFP re-dialing occasionally failing after call hang-up.
- Removed 65 second limit from DELAY command.
- Fixed potential UART flow control hangs.
- Fixed losing the most significant bits during ADC read over BGIO.
- Increased A2DP media channel MTU size to support Sony Xperia phones better in the case of aptX.
- Fixed SET BT SNIFF 0 false syntax error.
- Fixed possible crash with multiple A2DP connections

3 Contact Information

Sales: sales@bluegiga.com

Technical support: <http://www.bluegiga.com/support>

Orders: orders@bluegiga.com

WWW: www.bluegiga.com

Head Office / Finland:

Phone: +358-9-4355 060

Fax: +358-9-4355 0660

Sinikalliontie 5A

02630 ESPOO

FINLAND

Postal address / Finland:

P.O. BOX 120

02630 ESPOO

FINLAND

Sales Office / USA:

Phone: +1 770 291 2181

Fax: +1 770 291 2183

Bluegiga Technologies, Inc.

3235 Satellite Boulevard, Building 400, Suite 300

Duluth, GA, 30096, USA

Sales Office / Hong Kong:

Bluegiga Technologies Ltd.

Phone: +852 3972 2186