AUDIO/VIDEO REMOTE CONTROL PROFILE

Abstract

This profile defines the requirements for *Bluetooth*® devices necessary for the support of the Audio/Video Remote Control usage case. The requirements are expressed in terms of end-user services, and by defining the features and procedures that are required for interoperability between Bluetooth devices in the Audio/Video Remote Control usage case.

Revision History

Revision	Date	Comments
0.5	April 2001	Release to Associates
0.7	June, 2001	Release to Associates
0.9	September, 2001	Release to Associates and Early Adopters
Voting Draft 0.95	October, 2001	Release to Associates and Early Adopters
Voting Draft 0.95 a	February 11, 2002	Release to Associates and Early Adopters, small clarifications based on IOP and feedback.
0.95b	March 2002	Adopted 0.95
Voting Draft 1.00	May 2002	Release for Voting Draft
Voting Draft 1.00 a	February 2003	Release for Voting Draft
Version 1.0	May 2003	Title and header changed
Version 1.1 RC1	August 2003	Updated to support and use Bluetooth Core 1.2
Version 1.1 RC2	August 2003	Chapter 2.4 identifies useful services in BT 1.2
Version 1.1 RC3	October 2003	Contributor list updated
Version 1.1 RC4	October 2003	AV/C reference updated
D13r00	15 Aug 2005	Updated for core release v1.2 or later
D13r01	18 April 2006	Updated with Metadata Transfer FIPD content
D13r02	15 May 2006	Updated SDP record, InformDisplayableCharacterSet comments and specific Metadata Transfer introduction comments from the AV WG members
D13r03	16th May 2006	Updated with Patric's description of Basic Group Navigation. Misc. editorial comments
D13r04	12th June 2006	Updated with Laurent's PDU examples and Section 5.5
D13r05	23rd June 2006	Updated with new timers for metadata transfer and minor edits
D13r06	05 October 2006	Converted into a Voting Draft for Metadata Transfer; included Issues 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904
D13r07	14th October 2006	Updates during F2F meeting: included issues on interleaving commands and clarified RequestContinue PDU ID usage; included Assigned Numbers dependencies and Reference; repaired the Reference section; some editorial and cosmetic updates; updated contributor list; reformatted and added captions to tables in chapter 5; repaired links within document
D13r08	30th October 2006	Update after comment from BARB: Included reference to AV/C
D13r09	31st October 2006	Update after further comments from BARB: removed last paragraph in section 1.1; corrected spellings
D13r10	28 February 2007	Incorporate errata 2077 and 2079
V13	16 April 2007	Prepare for adoption

Contributors

Name	Company
Alexander Hanke	Audi
Ash Kapur	Broadcom
Rüdiger Mosig	BMS
Gordon Downie	CSR
Souichi Saito	Denso
Morgan Lindqvist	Ericsson
Wim Koster	Ericsson
Rene Kuiken	Ericsson

Audio/Video Remote Control Profile (AVRCP)

Masahiko Nakashima	Fujitsu
Baskar Subramanian	Impulsesoft
K.A Srinivasan	Impulsesoft
Ilya Goldberg	Matsushita
Tsuyoshi Okada	Matsushita
Thomas Karlsson	Mecel
Jurgen Schnitzler	Nokia
Kalervo Kontola	Nokia
Martti Niska	Nokia
Thomas Block	Nokia
Vesa Lunden	Nokia
Sebastien Henrio	Parrot
Erik Schylander	Philips
Shaun Barrett	Philips
Christian Bouffioux	Philips
Geert Knapen	Philips
Emmanuel Mellery	Philips
Laurent Meunier	Philips
Scott Walsh	Plantronics
Dmitri Toropov	Siemens
Masakazu Hattori	Sony
Harumi Kawamura	Sony
Rudiger Mosig	Sony
Yoshiyuki Nezu	Sony
Hiroyasu Noguchi	Sony
Tomoko Tanaka	Sony
Atsushi Ichise	Sony
Wilhelm Hagg	Sony
Masahiko Seki	Sony
Dick de Jong	Sony Ericsson
Patric Lind	Sony Ericsson
Siân James	Symbian
Junko Ami	Toshiba
Yoshiaki Takabatake	Toshiba
Ichiro Tomoda	Toshiba
Makoto Kobayashi	Toshiba
Shuichi Sakurai	Toshiba
Makoto Yamashita	Toshiba

Disclaimer and Copyright Notice

The copyright in this specification is owned by the Promoter Members of *Bluetooth®* Special Interest Group (SIG), Inc. ("*Bluetooth* SIG"). Use of these specifications and any related intellectual property (collectively, the "Specification"), is governed by the Promoters Membership Agreement among the Promoter Members and *Bluetooth* SIG (the "Promoters Agreement"), certain membership agreements between *Bluetooth* SIG and its Adopter and Associate Members (the "Membership Agreements") and the *Bluetooth* Specification Early Adopters Agreements (1.2 Early Adopters Agreements) among Early Adopter members of the unincorporated *Bluetooth* SIG and the Promoter Members (the "Early Adopters Agreement"). Certain rights and obligations of the Promoter Members under the Early Adopters Agreements have been assigned to *Bluetooth* SIG by the Promoter Members.

Use of the Specification by anyone who is not a member of *Bluetooth* SIG or a party to an Early Adopters Agreement (each such person or party, a "Member"), is prohibited. The legal rights and obligations of each Member are governed by their applicable Membership Agreement, Early Adopters Agreement or Promoters Agreement. No license, express or implied, by estoppel or otherwise, to any intellectual property rights are granted herein.

Any use of the Specification not in compliance with the terms of the applicable Membership Agreement, Early Adopters Agreement or Promoters Agreement is prohibited and any such prohibited use may result in termination of the applicable Membership Agreement or Early Adopters Agreement and other liability permitted by the applicable agreement or by applicable law to *Bluetooth* SIG or any of its members for patent, copyright and/or trademark infringement.

THE SPECIFICATION IS PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, SATISFACTORY QUALITY, OR REASONABLE SKILL OR CARE, OR ANY WARRANTY ARISING OUT OF ANY COURSE OF DEALING, USAGE, TRADE PRACTICE, PROPOSAL, SPECIFICATION OR SAMPLE.

Each Member hereby acknowledges that products equipped with the *Bluetooth* technology ("*Bluetooth* products") may be subject to various regulatory controls under the laws and regulations of various governments worldwide. Such laws and regulatory controls may govern, among other things, the combination, operation, use, implementation and distribution of *Bluetooth* products. Examples of such laws and regulatory controls include, but are not limited to, airline regulatory controls, telecommunications regulations, technology transfer controls and health and safety regulations. Each Member is solely responsible for the compliance by their *Bluetooth* Products with any such laws and regulations and for obtaining any and all required authorizations, permits, or licenses for their *Bluetooth* products related to such regulations within the applicable jurisdictions. Each Member acknowledges that nothing in the Specification provides any information or assistance in connection with securing such compliance, authorizations or licenses. **NOTHING IN THE SPECIFICATION CREATES ANY WARRANTIES, EITHER EXPRESS OR IMPLIED, REGARDING SUCH LAWS OR REGULATIONS.**

ALL LIABILITY, INCLUDING LIABILITY FOR INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS OR FOR NONCOMPLIANCE WITH LAWS, RELATING TO USE OF THE SPECIFICATION IS EXPRESSLY DISCLAIMED.   BY USE OF THE SPECIFICATION, EACH MEMBER EXPRESSLY WAIVES ANY CLAIM AGAINST *BLUETOOTH* SIG AND ITS PROMOTER MEMBERS RELATED TO USE OF THE SPECIFICATION.

Bluetooth SIG reserve the right to adopt any changes or alterations to the Specification as it deems necessary or appropriate.

Copyright © 2001, 2002, 2003, 2004, 2005 2006 2007. *Bluetooth* SIG Inc. All copyrights in the Bluetooth Specifications themselves are owned by Agere Systems Inc., Ericsson AB, Lenovo, Microsoft Corporation, Motorola, Inc., Nokia Corporation, and Toshiba Corporation. *Other third-party brands and names are the property of their respective owners.

Document Terminology

The Bluetooth SIG has adopted Section 13.1 of the IEEE Standards Style Manual, which dictates use of the words ``shall'', ``should'', ``may'', and ``can'' in the development of documentation, as follows:

- The word *shall* is used to indicate mandatory requirements strictly to be followed in order to conform to the standard and from which no deviation is permitted (*shall* equals *is required to*).

- The use of the word *must* is deprecated and shall not be used when stating mandatory requirements; *must* is used only to describe unavoidable situations.

- The use of the word *will* is deprecated and shall not be used when stating mandatory requirements; *will* is only used in statements of fact.

- The word *should* is used to indicate that among several possibilities one is recommended as particularly suitable, without mentioning or excluding others; or that a certain course of action is preferred but not necessarily required; or that (in the negative form) a certain course of action is deprecated but not prohibited (*should* equals *is recommended that*).

- The word *may* is used to indicate a course of action permissible within the limits of the standard (*may* equals *is permitted*).

- The word *can* is used for statements of possibility and capability, whether material, physical, or causal (*can* equals *is able to*).

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

fastcase®
Smarter legal research.