

ARM[®] Cordio Stack

ARM-EPM-115876 2.0

Attribute Protocol API

Confidential

ARM[®]

ARM® Cordio Attribute Protocol API

Reference Manual

Copyright © 2009-2016 ARM. All rights reserved.

Release Information

The following changes have been made to this book:

Document History

Date	Issue	Confidentiality	Change
25 September 2015	-	Confidential	First Wicentric release for 1.5 as document 2009-0010
1 March 2016	A	Confidential	First ARM release for 1.5
24 August 2016	A	Confidential	AUSPEX # / API Update
17 March 2017	1.2	Confidential	Updated API
11 January 2018	2.0	Confidential	Doxygen Update

Proprietary Notice

This document is protected by copyright and other related rights and the practice or implementation of the information contained in this document may be protected by one or more patents or pending patent applications. No part of this document may be reproduced in any form by any means without the express prior written permission of ARM. **No license, express or implied, by estoppel or otherwise to any intellectual property rights is granted by this document unless specifically stated.**

Your access to the information in this document is conditional upon your acceptance that you will not use or permit others to use the information: (i) for the purposes of determining whether implementations infringe any third party patents; (ii) for developing technology or products which avoid any of ARM's intellectual property; or (iii) as a reference for modifying existing patents or patent applications or creating any continuation, continuation in part, or extension of existing patents or patent applications; or (iv) for generating data for publication or disclosure to third parties, which compares the performance or functionality of the ARM technology described in this document with any other products created by you or a third party, without obtaining ARM's prior written consent.

THIS DOCUMENT IS PROVIDED "AS IS". ARM PROVIDES NO REPRESENTATIONS AND NO WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, SATISFACTORY QUALITY, NON-INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE DOCUMENT. For the avoidance of doubt, ARM makes no representation with respect to, and has undertaken no analysis to identify or understand the scope and content of, third party patents, copyrights, trade secrets, or other rights.

This document may include technical inaccuracies or typographical errors.

TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL ARM BE LIABLE FOR ANY DAMAGES, INCLUDING WITHOUT LIMITATION ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF ANY USE OF THIS DOCUMENT, EVEN IF ARM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This document consists solely of commercial items. You shall be responsible for ensuring that any use, duplication or disclosure of this document complies fully with any relevant export laws and regulations to assure that this document or any portion thereof is not exported, directly or indirectly, in violation of such export laws. Use of the word "partner" in reference to ARM's customers is not intended to create or refer to any partnership relationship with any other company. ARM may make changes to this document at any time and without notice.

If any of the provisions contained in these terms conflict with any of the provisions of any signed written agreement covering this document with ARM, then the signed written agreement prevails over and supersedes the conflicting provisions of these terms. This document may be translated into other languages for convenience, and you agree that if there is any conflict between the English version of this document and any translation, the terms of the English version of the Agreement shall prevail.

Words and logos marked with ® or ™ are registered trademarks or trademarks of ARM Limited or its affiliates in the EU and/or elsewhere. All rights reserved. Other brands and names mentioned in this document may be the trademarks of their respective owners. Please follow ARM's trademark usage guidelines at <http://www.arm.com/about/trademark-usage-guidelines.php>

Where the term ARM is used it means “ARM or any of its subsidiaries as appropriate”.

Copyright © 2009-2016, ARM Limited or its affiliates. All rights reserved.

ARM Limited. Company 02557590 registered in England.

110 Fulbourn Road, Cambridge, England CB1 9NJ.

LES-PRE-20348

Confidentiality Status

This document is Confidential. The right to use, copy and disclose this document may be subject to license restrictions in accordance with the terms of the agreement entered into by ARM and the party that ARM delivered this document to.

Product Status

The information in this document is final, that is for a developed product.

Web Address

<http://www.arm.com>

Contents

ARM® Cordio Stack	1
1 Preface	4
1.1 <i>About this book</i>	4
1.1.1 <i>Additional reading</i>	4

1 Preface

This preface introduces the Cordio Stack Attribute Protocol API Reference Manual.

1.1 About this book

This document describes the *Attribute Protocol* (ATT) API and lists the API functions and their parameters.

API documentation for the Attribute Protocol is doxygen generated and can be found at the following location.

[./html/Cordio_Stack_Cordio_Profiles/index.html](http://html/Cordio_Stack_Cordio_Profiles/index.html)

1.1.1 Additional reading

This section lists publications by ARM and by third parties.

See [Infocenter](#) for access to ARM documentation.

Other publications

This section lists relevant documents published by third parties:

- Bluetooth SIG, “*Specification of the Bluetooth System*”, Version 4.2, December 2, 2015.
- Bluetooth SIG, “*Specification of the Bluetooth System*”, Version 5.0, December 7, 2016.