



DASH Patent Portfolio License Briefing*

*This presentation is for information purposes only. Actual license agreements provide the only definitive and reliable statement of license terms.

Objective

- Offer an alternative license for the convenience of users enabling them to acquire patent rights necessary for the DASH Standard (see slide 3) from multiple patent holders in a single transaction as an alternative to negotiating separate licenses

Coverage

- **DASH Standard as defined in**
 - ISO/IEC 23009-1:2014, Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 1: Media presentation description and segment formats, May 15, 2014;
 - ISO/IEC 23009-1:2014/Cor.1:2015, Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 1: Media presentation description and segment formats, TECHNICAL CORRIGENDUM 1, April 1, 2015;
 - ISO/IEC 23009-1:2014/Amd.1:2015, Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 1: Media presentation description and segment formats, AMENDMENT 1: High Profile and Availability Time Synchronization, June 15, 2015;
 - ISO/IEC 23009-1:2014/Amd. 2:2015, Information Technology – Dynamic adaptive streaming over HTTP (DASH) – Part 1: Media presentation description and segment formats, AMENDMENT 2: Spatial Relationship Description, Generalized URL parameters and other extensions, July 1, 2015;
 - ISO/IEC 23009-1:2014/Amd.3:2016, Information technology – Dynamic adaptive streaming over HTTP (DASH) – Part 1: Media presentation description and segment formats, AMENDMENT 3: Authentication, MPD linking, Callback Event, Period Continuity and other Extensions, October 15, 2016;
 - ISO/IEC IS 23009-5:2017, Information Technology – Dynamic adaptive streaming over HTTP (DASH) – Part 5: Server and network assisted DASH (SAND), February 2017;
 - Guidelines for Implementation: DASH-IF Interoperability Points, Version 3.0, April 7, 2015;
 - Guidelines for Implementation: DASH-IF Interoperability Points, Version 3.1, September 21, 2015;
 - Guidelines for Implementation: DASH-IF Interoperability Points, Version 3.2, December 24, 2015; and
 - Guidelines for Implementation: DASH-IF Interoperability Points, Version 3.3, June 12, 2016.

Coverage

- Each patent is essential to the DASH Standard (see slide 3)
- Patent holders submitted patents for evaluation of their essentiality by independent patent experts
- Worldwide coverage (including essential counterparts)
- Licensors include all essential patents

Coverage

- Patent List (Attachment 1) to the License is updated regularly
 - <http://www.mpegla.com/main/programs/MPEG-DASH/Pages/PatentList.aspx>
 - Coverage from first release date of DASH specification
 - New Licensors and essential patents may be added at no additional royalty during the current term

Current Patent Owners

- Amotech Co., Ltd.
- AVerMedia Technologies, Inc.
- Cable Television Laboratories, Inc.
- Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung e.V.
- Helios Streaming, LLC
- JVC KENWOOD Corporation
- Maxell, Ltd.
- Nippon Telegraph and Telephone Corporation (NTT)
- Siemens AG
- SK Planet Co., Ltd.
- The Netherlands Organisation for Applied Scientific Research – TNO
- The Trustees of Columbia University in the City of New York*

*Up to and through date of last patent expiration

License Grants and Royalties

- **DASH Clients (products capable of parsing a Media Presentation Description or using the parsing from a Media Presentation Description to access and/or play a DASH Segment)**
 - 0 - 100,000 units/year = no royalty (available to one Legal Entity in an affiliated group)
 - US \$0.05 per unit after first 100,000 units each year
- **Related Terms**
 - Maximum annual royalty payable by an Enterprise (Legal Entity and Affiliates) is \$0 for 2015 and 2016, \$2.5M for 2017 and 2018, and \$5M for 2019 through 2022
 - Royalties payable for products from January 1, 2017 forward
 - Includes right to make, use and sell

Term

- **Current Term through December 31, 2022**
- **Renewable for successive 5-year periods for the life of any Portfolio patent on reasonable terms and conditions**
- **Rate Protection on Renewal – royalties for specific royalty products and license grants will not increase by more than 20% at each renewal**

Other Important Provisions

- **Most Favorable royalty rates clause**
- **Licensee data is protected as confidential**
- **Grant-back on essential patents similar in scope to license grants**