QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714
858-587-1121

November 3, 2016

Via Email and Federal Express

Attn: Daro Bruno
ATSC
1776 K STREET NW 8th FLOOR
WASHINGTON, DC 20006-2304

Re: ATSC Candidate Standard: Service Announcement (A/332) (S33-159r5)

Dear Sir,

Enclosed please find Qualcomm Incorporated's IPR Disclosure Statement and Licensing Declaration form for ATSC Candidate Standard: Service Announcement (A/332) (S33-159r5).

Per Sections 1 and 3 of the ATSC Patent Policy attached are copies of Qualcomm Incorporated's Intellectual Property Licensing Declarations sent to OMA and IETF for the following normative references as cited in the above referenced ATSC Specification Candidate Standard:


IETF: “RaptorQ Forward Error Correction Scheme for Object Delivery,” RFC 6330, Internet Engineering Task Force, August 2011 (normatively referenced in ATSC Service Announcement (A/332) (S33-159r5)).
Please confirm receipt of this declaration at your earliest convenience via email to ip.disclosure@qualcomm.com. If you have any questions or concerns, please contact me directly at 858-587-1121. Thank you for your time and assistance with this matter.

Sincerely,

[Signature]

Thomas R. Rouse
VP & Legal Counsel
Standards Policy and Compliance
Qualcomm Incorporated
Please return to:
President
ATSC
1750 K Street NW
Suite 1200
Washington, DC 20006
202-872-9160 – Office
202-872-9161 - Fax

Discloser:
Name of Participant: QUALCOMM Incorporated

Contact Information for
Participant's Representative: Thomas R. Rouse, VP & Legal Counsel, Standards Policy and Compliance

Name of Representative: Thomas R. Rouse, VP & Legal Counsel, Standards Policy and Compliance

Address: 5775 Morehouse Drive, San Diego, CA 92121

Tel. No.: 858-587-1121

Fax: 858-658-2503

Email: ip.disclosure@qualcomm.com

URL (optional): www.qualcomm.com

Identification of ATSC Specification Document relevant to the Disclosure Statement:

Number: S33-159r5

Title: ATSC Candidate Standard: Service Announcement (A/332)
Licensing Declaration

If the Discloser is the holder of a patent and/or pending patent application that is the subject of an Essential Claim, i.e., the use of which it believes would be required to implement the identified ATSC Specification Document, the Discloser hereby declares, in accordance with the Statement on ATSC Patent Policy (see ATSC website), that (check one box only).

☐ a. The Discloser agrees to make a license to the Essential Claim available without compensation upon request to all applicants for the purpose of implementing the Specification Document, which license may be conditioned upon license reciprocity with respect to the same Specification Document. Negotiations are left to the parties concerned and are performed outside of ATSC.

Mark here ☐ if the Discloser’s willingness to license is conditioned on reciprocity for the above ATSC Standard.

☒ b. The Discloser agrees to make a license to the Essential Claim available upon request under reasonable and nondiscriminatory terms and conditions to all applicants for the purpose of implementing the Specification Document, which conditions may include license reciprocity with respect to the same Specification Document. Negotiations are left to the parties concerned and are performed outside of ATSC.

Mark here ☒ if the Discloser’s willingness to license is conditioned on reciprocity for the above ATSC Standard.

☐ c. The Discloser will not make a license to the Essential Claim under reasonable and nondiscriminatory terms and conditions to applicants for the purpose of implementing the Specification Document.

Without Compensation: The phrase “without compensation” does not mean that the Discloser is waiving all of its rights with respect to each patent or patent application that is the subject matter of the Essential Claim. Rather, “without compensation” refers to the issue of monetary compensation; i.e., that the Discloser will not seek any monetary compensation as part of the licensing arrangement (whether such compensation is called a royalty, a one-time licensing fee, etc.). However, while the Discloser in this situation is committing to not charging any monetary amount, the Discloser is still entitled to require that the implementer of the ATSC Specification Document sign a license agreement that contains other reasonable terms and conditions such as those relating to governing law, field of use, reciprocity, warranties, etc.

Reciprocity: As used herein, the word “reciprocity” means that the Discloser shall only be required to license any prospective licensee under the stated terms (without compensation or under reasonable and nondiscriminatory terms and conditions) if such prospective licensee will commit to license its patent(s) or patent application(s) forming the subject matter of an Essential Claim under similar (without compensation or under reasonable and nondiscriminatory) terms and conditions.
In accordance with Sections 3 and 4 of the ATSC Patent Policy, if the Discloser has made a licensing declaration under paragraph (c) above, please provide the following information.

- an identification of each patent or patent application that is the subject matter of the Essential Claim;
- an identification of specific section(s) or text of the Specification Document that are relevant to the Essential Claim; and
- an identification of each patent or patent application claim covering the Specification Document.

This information is informal in nature and does not constitute a legal opinion, but should be based on "good faith and belief" of the Discloser. Information provided in this section does not represent a formal "notice" that implementation of any resulting ATSC Standard or Recommended Practice would infringe any patent or patent application for the Essential Claim.

Completed By:

Name of Participant: QUALCOMM Incorporated

Name of Representative: Thomas R. Rouse

Title of Representative: VP & Legal Counsel, Standards Policy & Compliance

Signature:

Place, Date: San Diego, CA November 3, 2016
QUALCOMM Incorporated's Statement about IPR related to RFC 6330

Only those sections of the "Patent Disclosure and Licensing Declaration Template for Specific IPR Disclosures" where the submitter provided information are displayed.

This IPR disclosure updates IPR disclosure ID #1853, "QUALCOMM Incorporated's Statement about IPR related to draft-ietf-mht-ftpsec-raptorq-06" Update the IPR disclosure. Note: Updates to IPR disclosures must only be made by authorized representatives of the original submitter. Updates will automatically be forwarded to the current Patent Holder's Contact and to the Submitter of the original IPR disclosure.

Submitted Date: February 6, 2013

I. Patent Holder/Applicant ("Patent Holder")
Legal Name: QUALCOMM Incorporated

II. Patent Holder's Contact for License Application
Name: Thomas R. Rouse
Title: VP, QTL Patent Counsel
Department: Qualcomm Technology Licensing
Address1: 5775 Morehouse Drive
Address2: San Diego, CA 92121
Telephone: 858-587-1121
Fax: 
Email: trouse@qualcomm.com

III. Contact Information for the IETF Participant Whose Personal Belief Triggered this Disclosure:
Name: Michael Luby
Title: VP, Technology
Department: 
Address1: 
Address2: 
Telephone: 408-533-9434
Fax: 
Email: luby@qti.qualcomm.com

IV. IETF Document or Other Contribution to Which this IPR Disclosure Relates:
RFC: "RaptorQ Forward Error Correction Scheme for Object Delivery"

V. Disclosure of Patent Information (i.e., patents or patent applications required to be disclosed by Section 6 of RFC 3979)
A. For granted patents or published pending patent applications, please provide the following information:

Patent, Serial, Publication, Registration, or Application/File number(s):
US7,139,960; US7,451,377; US20090158114; EP1685539

Date(s) granted or applied for:
11/21/06; 11/11/08; 6/18/09; 6/7/05

Country: US

Additional Notes:
7,139,960 claims priority to 60/509,355 and has foreign counterparts in CN, EP, HK, IN, JP, KR.
7,451,377 is a continuation of 7,139,960 and claims priority to 60/509,355.
20090158114 is a continuation of 7,139,960 and claims priority to 60/509,355.
EP1685539 claims priority to 60/509,355.

B. Does this disclosure relate to an unpublished pending patent application? NO

C. If an Internet-Draft or RFC includes multiple parts and it is not reasonably apparent which part of such Internet-Draft or RFC is alleged to be covered by the patent information disclosed in Section V(A) or V(B), it is helpful if the discloser identifies here the sections of the Internet-Draft or RFC that are alleged to be so covered.
VI. Licensing Declaration

The Patent Holder states that its position with respect to licensing any patent claims contained in the patent(s) or patent application(s) disclosed above that would necessarily be infringed by implementation of the technology required by the relevant IETF specification ("Necessary Patent Claims"), for the purpose of implementing such specification, is as follows: (select one licensing declaration option only).

See Text Below for Licensing Declaration.

Licensing information, comments, notes, or URL for further information

If the technology in RFC6330 "RaptorQ Forward Error Correction Scheme for Object Delivery" is included in a standards track or experimental document adopted by the IETF, and any claim of any patent issued from the above mentioned patents, patent applications or corresponding patents and patent applications is required for the implementation of any device that (a) fully implements such adopted standards track or experimental document; and (b) implements a wireless wide-area standard (for example, a UMTS-compatible handset or infrastructure equipment), Qualcomm will offer licenses to such claim as part of its established licensing terms and conditions for such devices, without charging any additional incremental royalty rate above Qualcomm's standard royalty rate for use of its patents in such devices implementing such wireless wide-area standard.

If the technology in RFC6330 "RaptorQ Forward Error Correction Scheme for Object Delivery" is included in a standards track or experimental document adopted by the IETF, and any claim of any patent issued from the above mentioned patents, patent applications or corresponding patents and patent applications is required for the implementation of any device that (a) fully implements such adopted standards track or experimental document; and (b) does not implement any wireless wide-area standard, Qualcomm will not assert any such claim against any party for making, using, selling, importing or offering for sale such device but solely with respect to the implementation of such adopted standards track or experimental document, provided, however that Qualcomm retains the right to assert its patent(s) issued on the above mentioned application or corresponding patent applications (including the right to claim past royalties) against any party that asserts a patent it owns or controls (either directly or indirectly) against any products of Qualcomm or any products of any of Qualcomm's Affiliates either alone or in combination with other products; and Qualcomm retains the right to assert its patents or application(s) against any product or portion thereof that does not fully implement the IETF standards track or experimental document.

Note: The individual submitting this template represents and warrants that he or she is authorized by the Patent Holder to agree to the above-selected licensing declaration.

VII. Contact Information of Submitter of this Form (If different from the Contact Information above)

Name: Thomas R. Rouse
Title: VP, QTL Patent Counsel
Department: Legal
Address1: 5775 Morehouse Drive
Telephone: 866-587-1121
Fax: trouse@qualcomm.com

VIII. Other Notes:

Qualcomm Incorporated has acquired Digital Fountain and all owned IPR.
The Patent Disclosure and Licensing Declaration Template for Specific IPR Disclosures

This document is an IETF IPR Disclosure and Licensing Declaration Template and is submitted to inform the IETF of a) patent or patent application information regarding the IETF document or contribution listed in Section IV, and b) an IPR Holder's intention with respect to the licensing of its necessary patent claims. No actual license is implied by submission of this template. Please complete and submit a separate template for each IETF document or contribution to which the disclosed patent information relates.

If you wish to submit your IPR disclosure by e-mail, then please send it to ietf-ipr@ietf.org. Submissions made by e-mail that do not comply with the formal requirements of Section 8, "IPR Disclosures," of RFC 3979, "Intellectual Property Rights in IETF Technology", will be posted, but will be marked as "non-compliant".

Fields marked with "*" are required.

Updates

If this disclosure updates another disclosure(s) identify here which one(s). Leave this field blank if this disclosure does not update any prior disclosures. Note: Updates to IPR disclosures must only be made by authorized representatives of the original submitters. Updates will automatically be forwarded to the current Patent Holder's Contact and to the Submitter of the original IPR disclosure.

Updates:

QUALCOMM Incorporated's Statement about IPR related to RFC 6330 <2013-02-06>

II. Patent Holder/Applicant ("Patent Holder")

Legal Name: QUALCOMM Incorporated

III. Patent Holder's Contact for License Application

Name: Thomas R. Rouse
Email: ip.disclosure@qualcomm.com
Other Info: VP, QTL Patent Counsel
Qualcomm Technology Licensing
5775 Morehouse Drive
San Diego CA 92121
T: 858-587-1121

III. Contact Information for the IETF Participant Whose Personal Belief Triggered this Disclosure:

Name: Michael Luby
Email: luby@qti.qualcomm.com
Other Info:
(address,phone,etc)
'IV. IETF Document or Other Contribution to Which this IPR Disclosure Relates:

If an Internet-Draft or RFC includes multiple parts and it is not reasonably apparent which part of such Internet-Draft or RFC is alleged to be covered by the patent information disclosed in Section V(A) or V(B), it is helpful if the discloser identifies here the sections of the Internet-Draft or RFC that are alleged to be so covered:

RFC Name: rfc6330
Add More

I-D Filename:
Add More

Designations for Other Contributions:

'V. Disclosure of Patent Information (i.e., patents or patent applications required to be disclosed by Section 6 of RFC3979)

A. For granted patents or published pending patent applications, please provide the following information:

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B. This disclosure relates to an unpublished pending patent application.

'VI. Licensing Declaration

The Patent Holder states that its position with respect to licensing any patent claims contained in the patent(s) or patent application(s) disclosed above that would necessarily be infringed by implementation of a technology required by a relevant IETF specification ("Necessary Patent Claims"), for the purpose of implementing such specification, is as follows (select one licensing declaration option only):

- a) No License Required for Implementers
- b) Royalty-Free, Reasonable and Non-Discriminatory License to All Implementers
- c) Reasonable and Non-Discriminatory License to All Implementers with Possible Royalty/Fee
- d) Licensing Declaration to be Provided Later (implies a willingness to commit to the provisions of a), b), or c) above to all implementers; otherwise, the next option 'Unwilling to Commit to the Provisions of a), b), or c) Above'. - must be selected)
- e) Unwilling to Commit to the Provisions of a), b), or c) Above
- f) See Text Below for Licensing Declaration

Above licensing declaration is limited solely to standards-track IETF documents.
Licensing information, comments, notes, or URL for further information:
If the technology in RFC8330 "RaptorQ Forward Error Correction Scheme for Object Delivery" is included in a standards track or experimental document adopted by the IETF, and any claim of any patent issued from the above mentioned patents, patent applications or corresponding patents and patent applications is required for the implementation of any device that (a) fully implements such adopted standards track or experimental document; and (b) implements a wireless wide-area standard (for example, a UMTS-compatible handset or infrastructure equipment), Qualcomm will offer licenses to such claim as part of its established licensing terms and conditions for such

☐ The individual submitting this template represents and warrants that all terms and conditions that must be satisfied for implementers of any covered IETF specification to obtain a license have been disclosed in this IPR disclosure statement.

Note: The individual submitting this template represents and warrants that he or she is authorized by the Patent Holder to agree to the above-selected licensing declaration.

'VII'. Contact Information of Submitter of this Form (if different from the Contact Information above)
Same as in section II above: ☑
Name: Thomas R. Rouse
Email: ip.disclosure@qualcomm.com

'VIII'. Other Notes:
Qualcomm Incorporated has acquired Digital Fountain and all owned IPR.
Dear Thomas R. Rouse:

Your IPR disclosure entitled QUALCOMM Incorporated's Statement about IPR related to RFC 6330 has been posted on the "IETF Page of Intellectual Property Rights Disclosures" (https://datatracker.ietf.org/ipr/).

Your IPR disclosure updates:

IPR disclosure ID #1958, "QUALCOMM Incorporated's Statement about IPR related to RFC 6330", which was posted on

Thank you

IETF Secretariat
Appendix B IPR Licensing Declaration
This declaration is given on November 2 2007 By: QUALCOMM Incorporated

To the Open Mobile Alliance Ltd. of England (the “OMA”)

The Member has notified OMA that it (or one of its Affiliates) is the proprietor of the intellectual property rights listed in Appendix A (the “Essential IPR”) and has informed OMA that it believes that the Essential IPR is essential to the Specifications also listed in Appendix A, as the term “Essential IPR” is defined in the Application Form for membership in OMA.

The Member and/or its Affiliate(s) hereby declare that it is/they are prepared to grant licenses to use the Essential IPR in respect of a Specification on terms and conditions which are in accordance with the Application Form.

The construction, validity and performance of this declaration shall be governed by, and construed in accordance with, the laws of England and Wales.

Signed for and behalf of the Member

By

Print Name: Thomas R. Rouse
Position VP, Chief Patent Counsel
Following completion this form should be forwarded to the Central Manager of Operations of the Open Mobile Alliance.

**Notes:** Decide as appropriate

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Signed by:

Thomas R. Rose
VP, Chief Patent Counsel
Qualcomm Incorporated
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**Incorporation Statement**

This statement is made on November 2, 2007 by Thomas R. Rosse, Representative of QUALCOMM Incorporated, a Member of the Open Mobile Alliance ("OMA"). In accordance with the OMA Application Form, I hereby inform OMA that I have relating to my interests related to the Open Mobile Alliance ("OMA").
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**Notes:**
- Methods and network distribution for different regions.
- Device information to guide satellite programs.
- Service and management of media.
- Interchangeable system distribution multimedia applications.
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**Notes:**
- The table lists applications filed by various inventors in Taiwan, with descriptions related to communication systems and methods.
- Each application has a corresponding filing date and publication date.
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Dear Mr. Newberry,

Attached please find Qualcomm Incorporated's IPR Information Statement for the draft technical specifications identified as OMA-TS-BCAST, Programming, Adaptation V1.0, OMA-TS-BCAST, Service, Guide V1.0, OMA-TS-BCAST, Distribution, and OMA-TS-DCD, Semantics-

V1.0.

Please confirm receipt via return email at your earliest convenience. If you have any questions or concerns please contact Tom Rouse directly at 858-654-7532.

Stephanie F. Young
Legal Analyst
Intellectual Property Group
QUALCOMM Incorporated
5775 Morehouse Drive
San Diego, CA 92121-1714
Phone: (858) 658-4851
Fax: (858) 658-2503
Mobile: (858) 243-3018

http://www.qualcomm.com

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April 6, 2011

Via Facsimile and Email

General Manager, Seth Newberry
Open Mobile Alliance, Ltd.
4330 La Jolla Village Dr.,
Suite 110
San Diego, CA 92122
Facsimile: 1-858-623-0743
Email: snewberry@oma.org

Re: QUALCOMM Incorporated's IPR Declaration of April 6, 2011 for
OMA-TS-ULP-V2_0, OMA-AD-SUPL-V2_0, OMA-TS-BCAST_Service_Guide-V1_1, OMA-TS-
BCAST_Services-V1_1, OMA SUPL 2.0, OMA LPPe OMA-TS-LPPe-v1_0, OMA-AD-SUPL-V1_0,
OMA-TS-BCAST_Service_Guide-V1_1, OMA-TS-BCAST_Services-V1_1, OMA-TS-
BCAST_SvcCntProtection-V1_1, OMA-TS-BCAST_Distribution-V1_1, OMA-TS-
BCAST_BCMCS_Adaptation-V1_1, OMA-TS-BCAST_DVB_Adaptation-V1_1, OMA-TS-
BCAST_DVBSH_Adaptation-V1_1, OMA-TS-BCAST_FLO_Adaptation-V1_1, OMA-TS-
BCAST_MBMS_Adaptation-V1_1, OMA-TS-BCAST_WiMAX_Adaptation-V1_1, OMA T-UTS-ULT-v3
B_0, OMA MLP: OMA-LIF-MLP-V3_1, OMA MLP: OMA-TS-MLP-V3_2, OMA MLP: OMA-TS-MLP-
V3_3, and OMA TS SUPL 2

Dear Mr. Newberry:

Attached please find Qualcomm Incorporated's Appendix A IPR information statement and Appendix B
IPR Licensing Declaration for OMA-TS-ULP-V2_0, OMA-AD-SUPL-V2_0, OMA-TS-BCAST_Service_Guide-
V1_1, OMA-TS-BCAST_Services-V1_1, OMA SUPL 2.0, OMA LPPe OMA-TS-LPPe-v1_0, OMA-AD-SUPL-
V1_0, OMA-TS-BCAST_Service_Guide-V1_1, OMA-TS-BCAST_Services-V1_1, OMA-TS-
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BCAST_WiMAX_Adaptation-V1_1, OMA T-UTS-ULT-v3 B_0, OMA MLP: OMA-LIF-MLP-V3_1, OMA MLP:
Please confirm receipt of this declaration at your earliest convenience via email to my attention at trouser@qualcomm.com. If you have any questions or concerns, please contact me directly at 858-587-1121. Thank you for your continued time and assistance.

Sincerely,

Thomas R. Rouse  
VP, QTL Patent Counsel  
Qualcomm Incorporated
### Appendix A IPR Information Statement

This statement is made on April 6, 2011 by Thomas R. Rouse, representative of QUALCOMM Incorporated, a Member of the Open Mobile Alliance Ltd ("OMA"). In accordance with the OMA Application Form, I hereby inform OMA it is the belief of the undersigned, signing on behalf of the Member, that the following IPR's are, or likely to become, Essential IPR's in relation to the draft technical specification/Specification (1) identified as OMA-TS-ULP-V2.0, OMA-AD-SUPL-V2.0, OMA-TS-BCAST_Service_Guide-V1.1, OMA-TS-BCAST_Services-V1.1, OMA-SUPL-2.0, OMA-TS-LPPE-v1.0, OMA-AD-SUPL-V1.0, OMA-TS-BCAST_Service_Guide-V1.1, OMA-TS-BCAST_Services-V1.1, OMA-TS-BCAST_SvcCrtProtection-v1.1, OMA-TS-BCAST_Distribution-v1.1, OMA-TS-BCAST_BCAST_BCAST_SvcCrtProtection-v1.1, OMA-TS-BCAST_DVBSHAdaptation-v1.1, OMA-TS-BCAST_FLO_Adaptation-v1.1, OMA-TS-BCAST_MBMS_Adaptation-v1.1, OMA-TS-BCAST_WMMax_Adaptation-v1.1, OMA-TS-ULP-v3.0, OMA_MLP, OMA-LP-MLP-v3.1, OMA_MLP, OMA-TS-MLP-v3.2, OMA_MLP, OMA-TS-MLP-v3.3, and OMA-TS-SUPL-2.

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Signed by: 

Thomas R. Rouse  
VP, QTL Patent Counsel  
QUALCOMM Incorporated

Notes: (1) Delete as appropriate.  
Following completion, this form should be forwarded to the General Manager of Operations of the Open Mobile Alliance.
Appendix B  IPR Licensing Declaration
This declaration is given on April 6, 2011        By: QUALCOMM Incorporated

To the Open Mobile Alliance Ltd. of England (the “OMA”)

The Member has notified OMA that it (or one of its Affiliates) is the proprietor of the intellectual property rights listed in Appendix A (the “Essential IPR”) and has informed OMA that it believes that the Essential IPR is essential to the Specifications also listed in Appendix A, as the term “Essential IPR” is defined in the Application Form for membership in OMA.

The Member and/or its Affiliate(s) hereby declare that it is/they are prepared to grant licenses to use the Essential IPR in respect of a Specification on terms and conditions which are in accordance with the Application Form.

The construction, validity and performance of this declaration shall be governed by, and construed in accordance with, the laws of England and Wales.

Signed for and on behalf of the Member

By

Print Name: Thomas R. Rouse
Position: VP, QTL Patent Counsel
Detailed Results
Tracking no.: 470988428828
Select time format: 12H

Delivered

Shipment Dates
Ship date: Apr 7, 2011
Delivery date: Apr 11, 2011 11:47 AM

Shipment Options
Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment

Shipment Facts
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Weight: 0.5 lb, 2 kg
Shipped to: Reference
Purchase order number: 0
Shipping/Receiving
DEPT 9920
TX0002491

Shipment Travel History
Select time zone: Local Scan Time
All shipment travel activity is displayed in local time for the location

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May 26, 2011

Via Facsimile and Email
General Manager, Seth Newberry
Open Mobile Alliance, Ltd.
4330 La Jolla Village Dr.,
Suite 110
San Diego, CA 92122
Facsimile: 1-858-623-0743
Email: snewberry@omaorg.org

Re: QUALCOMM Incorporated’s IPR Declaration of May 26, 2011 for
OMA-SyncML-DMStdObj-V1_1_2; OMA-TS-DM_StdObj-V1_2_1; OMA-TS-BCAST_Service_Guide-V1_1; OMA-TS-DCMO-V1_0; OMA-TS-DiagMon_Functions-V1_0; OMA-TS-DM_Protocol-V1_2;
OMA-TS-LAWMO-V1_0; OMA-TS-PushOTA-V2_2; OMA-TS-ULP-V2_0

Dear Mr. Newberry:

Attached please find Qualcomm Incorporated’s Appendix A IPR information statement and Appendix B IPR Licensing Declaration for OMA-SyncML-DMStdObj-V1_1_2; OMA-TS-DM_StdObj-V1_2_1; OMA-TS-BCAST_Service_Guide-V1_1; OMA-TS-DCMO-V1_0; OMA-TS-DiagMon_Functions-V1_0; OMA-TS-DM_Protocol-V1_2; OMA-TS-LAWMO-V1_0; OMA-TS-PushOTA-V2_2; and OMA-TS-ULP-V2_0.

Please confirm receipt of this declaration at your earliest convenience via email to my attention at trouse@qualcomm.com. If you have any questions or concerns, please contact me directly at 858-587-1121. Thank you for your continued time and assistance.

Sincerely,

[Signature]

Thomas R. Rouse
VP, QTL Patent Counsel
Qualcomm Incorporated

TR/kv
Appendix A IPR Information Statement
This statement is made on May 26, 2011 by Thomas R. Rouse, representative of QUALCOMM Incorporated, a Member of the Open Mobile Alliance Ltd ("OMA"). In accordance with the OMA Application Form, I hereby inform OMA it is the belief of the undersigned, signing on behalf of the Member, that the following IPR's are, or likely to become, Essential IPR's in relation to the draft technical specification/Specification (1) identified as OMA-SyncML-DMStdObj-V1_1_2; OMA-TS-DM_StdObj-V1_2_1; OMA-TS-BCAST_Service_Guide-V1_1; OMA-TS-DCMO-V1_0; OMA-TS-DiagMon_Functions-V1_0; OMA-TS-DM_Protocol-V1_2; OMA-TS-LAWMO-V1_0; OMA-TS-PushOTA-V2_2; and OMA-TS-ULP-V2_0.

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Signed by:

Thomas R. Rouse  
VP, QTL Patent Counsel  
QUALCOMM Incorporated

Notes: (1) Delete as appropriate.  
Following completion, this form should be forwarded to the General Manager of Operations of the Open Mobile Alliance.
Appendix B  IPR Licensing Declaration
This declaration is given on May 26, 2011 By: QUALCOMM Incorporated

To the Open Mobile Alliance Ltd. of England (the "OMA")

The Member has notified OMA that it (or one of its Affiliates) is the proprietor of the intellectual property rights listed in Appendix A (the "Essential IPR") and has informed OMA that it believes that the Essential IPR is essential to the Specifications also listed in Appendix A, as the term "Essential IPR" is defined in the Application Form for membership in OMA.

The Member and/or its Affiliate(s) hereby declare that it is/they are prepared to grant licenses to use the Essential IPR in respect of a Specification on terms and conditions which are in accordance with the Application Form.

The construction, validity and performance of this declaration shall be governed by, and construed in accordance with, the laws of England and Wales.

Signed for and behalf of the Member

By ______________

Print Name: Thomas R. Rouse
Position: VP, QTL Patent Counsel
January 26, 2012

Via Facsimile and Email
General Manager, Seth Newberry
Open Mobile Alliance, Ltd.
4330 La Jolla Village Dr., Suite 110
San Diego, CA 92122
Facsimile: 1-858-623-0743
Email: snewberry@oma.org

Re: QUALCOMM Incorporated’s IPR Declaration of January 26, 2012 for OMA-AD-BCAST-V1_1, OMA-TS-BCAST_Service_Guide-V1_1, OMA-TS-BCAST_Services-V1_1, OMA-TS-DiagMonTrapMOFrame-V1_2, OMA-TS-LAWMO-V1_0, OMA-TS-ULP-V3_0

Dear Mr. Newberry:

Attached please find Qualcomm Incorporated’s Appendix A IPR information statement and Appendix B IPR Licensing Declaration for OMA-AD-BCAST-V1_1, OMA-TS-BCAST_Service_Guide-V1_1, OMA-TS-BCAST_Services-V1_1, OMA-TS-DiagMonTrapMOFrame-V1_2, OMA-TS-LAWMO-V1_0, OMA-TS-ULP-V3_0.

Please confirm receipt of this declaration at your earliest convenience via email to my attention at trousse@qualcomm.com. If you have any questions or concerns, please contact me directly at 858-587-1121. Thank you for your continued time and assistance.

Sincerely,

Thomas R. Rouse
VP, QTL Patent Counsel
Qualcomm Incorporated
Appendix A IPR Information Statement

This statement is made on January 26, 2012 by Thomas R. Rouse, representative of QUALCOMM Incorporated, a Member of the Open Mobile Alliance Ltd ("OMA"). In accordance with the OMA Application Form, I hereby inform OMA it is the belief of the undersigned, signing on behalf of the Member, that the following IPR's are, or likely to become, Essential IPR's in relation to the draft technical specification/Specification (1) identified as OMA-AD-BCAST-V1_1, OMA-TS-BCAST_Service_Guide-V1_1, OMA-TS-BCAST_Services-V1_1, OMA-TS-DiagMonTrapMOFrame-V1_2, OMA-TS-LAWMO-V1_0, OMA-TS-ULP-V3_0.

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<td>QUALCOMM Incorporated</td>
<td>Systems and methods for distributing and redeeming credits on a broadcast system</td>
<td>United States</td>
<td>12/630,770</td>
<td>OMA-TS-BCAST_Services-V1_1, 5.22</td>
<td>CN, EP, KR</td>
<td></td>
</tr>
</tbody>
</table>

Signed by: 

Thomas R. Rouse  
VP, QTL Patent Counsel  
QUALCOMM Incorporated

Notes: (1) Delete as appropriate.  
Following completion, this form should be forwarded to the General Manager of Operations of the Open Mobile Alliance.
Appendix B  IPR Licensing Declaration
This declaration is given on January 26, 2012  By: QUALCOMM Incorporated

To the Open Mobile Alliance Ltd. of England (the “OMA”)

The Member has notified OMA that it (or one of its Affiliates) is the proprietor of the intellectual property rights listed in Appendix A (the “Essential IPR”) and has informed OMA that it believes that the Essential IPR is essential to the Specifications also listed in Appendix A, as the term “Essential IPR” is defined in the Application Form for membership in OMA.

The Member and/or its Affiliate(s) hereby declare that it is/they are prepared to grant licenses to use the Essential IPR in respect of a Specification on terms and conditions which are in accordance with the Application Form.

The construction, validity and performance of this declaration shall be governed by, and construed in accordance with, the laws of England and Wales.

Signed for and on behalf of the Member

By

Print Name: Thomas R. Rouse
Position: VP, QTL Patent Counsel