Disclosure Statement and Licensing Declaration

This declaration does not represent an implied license grant

Please return to:
President
ATSC
1750 K Street NW
Suite 1200
Washington, DC 20006
202-872-9160 – Office
202-872-9161 - Fax

Discloser: QUALCOMM Incorporated
Name of Participant:

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: S34-168r8

Title: ATSC Candidate Standard: Video – HEVC (A/341)
### 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):

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<td>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.</td>
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<tr>
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<td>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 [x] if the Discloser's willingness to license is conditioned on reciprocity for the above ATSC Standard.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
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</table>

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: [Signature]

Place, Date: San Diego, CA March 1, 2017

Please return to the relevant organization(s) as instructed below per document type:

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<th>Director</th>
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<th>Secretary-General</th>
<th>General Secretary</th>
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</thead>
<tbody>
<tr>
<td>Telecommunication Standardization Bureau International Telecommunication Union Place des Nations CH-1211 Geneva 20, Switzerland Fax +41 22 730 5853 Email: <a href="mailto:tbdits@itu.int">tbdits@itu.int</a></td>
<td>Radiocommunication Bureau International Telecommunication Union Place des Nations CH-1211 Geneva 20, Switzerland Fax +41 22 730 5853 Email: <a href="mailto:bmyal@itu.int">bmyal@itu.int</a></td>
<td>International Organization for Standardization 1 Chemin de la Voie-Croise CH-1211 Geneva 20 Switzerland Fax +41 22 733 3430 Email: <a href="mailto:patent.statements@iso.org">patent.statements@iso.org</a></td>
<td>International Electrotechnical Commission 3 rue de Varembe CH-1211 Geneva 20 Switzerland Fax +41 22 919 0300 Email: <a href="mailto:itseal@iec.ch">itseal@iec.ch</a></td>
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**Patent Holder:** QUALCOMM Incorporated

**Contact for license application:**

<table>
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<tr>
<th>Name &amp; Department</th>
<th>Address</th>
<th>Tel.</th>
<th>Fax</th>
<th>E-mail</th>
<th>URL (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas R. Rouse, VP QTL Patent Counsel</td>
<td>5775 Morehouse Drive</td>
<td>858-587-1121</td>
<td>858-845-4122</td>
<td><a href="mailto:trouve@qualcomm.com">trouve@qualcomm.com</a></td>
<td><a href="http://www.qualcomm.com">www.qualcomm.com</a></td>
</tr>
</tbody>
</table>

**Document type:**

- [x] ITU-T Rec. (*)
- [ ] ITU-R Rec. (*)
- [x] ISO Deliverable (*)
- [x] IEC Deliverable (*)

*(please return the form to the relevant Organization)*

- [x] **Common text or twin text (ITU-T Rec. | ISO/IEC Deliverable (*))** *(for common text or twin text, please return the form to each of the three Organizations: ITU-T, ISO, IEC)*

- [ ] ISO/IEC Deliverable (*) *(for ISO/IEC Deliverables, please return the form to both ISO and IEC)*

**Number:** ISO/IEC DIS 23008-2/ITU-T HEVC

**Title:** High Efficiency Video Coding
Licensing declaration:
The Patent Holder believes that it holds granted and/or pending applications for patents, the use of which would be required to implement the above document and hereby declares, in accordance with the Common Patent Policy for ITU-T/ITU-R/ISO/IEC, that (check one box only):

☐ 1. The Patent Holder is prepared to grant a free of charge license to an unrestricted number of applicants on a worldwide, non-discriminatory basis and under other reasonable terms and conditions to make, use, and sell implementations of the above document.
   Negotiations are left to the parties concerned and are performed outside the ITU-T, ITU-R, ISO or IEC.
   Also mark here ☐ if the Patent Holder’s willingness to license is conditioned on reciprocity for the above document.
   Also mark here ☐ if the Patent Holder reserves the right to license on reasonable terms and conditions (but not free of charge) to applicants who are only willing to license their patent claims, whose use would be required to implement the above document, on reasonable terms and conditions (but not free of charge).

☒ 2. The Patent Holder is prepared to grant a license to an unrestricted number of applicants on a worldwide, non-discriminatory basis and on reasonable terms and conditions to make, use and sell implementations of the above document.
   Negotiations are left to the parties concerned and are performed outside the ITU-T, ITU-R, ISO, or IEC.
   Also mark here ☒ if the Patent Holder’s willingness to license is conditioned on reciprocity for the above document.

☐ 3. The Patent Holder is unwilling to grant licenses in accordance with provisions of either 1 or 2 above.
   In this case, the following information must be provided to ITU, and is strongly desired by ISO and IEC, as part of this declaration:
   - granted patent number or patent application number (if pending);
   - an indication of which portions of the above document are affected;
   - a description of the patent claims covering the above document.

Free of charge: The words “free of charge” do not mean that the Patent Holder is waiving all of its rights with respect to the essential patent. Rather, “free of charge” refers to the issue of monetary compensation; i.e., that the Patent Holder 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 Patent Holder in this situation is committing to not charging any monetary amount, the Patent Holder is still entitled to require that the implementer of the above 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 Patent Holder shall only be required to license any prospective licensee if such prospective licensee will commit to license its essential patent(s) or essential patent claim(s) for implementation of the same above document free of charge or under reasonable terms and conditions.

Signature:
Patent Holder
Name of authorized person
Title of authorized person
Signature
Place, Date

QUALCOMM Incorporated
Thomas R. Rouse
VP, QTL Patent Counsel

San Diego, CA, USA September 11, 2012

FORM: 1 March 2007
### Patent Information (desired but not required for options 1 and 2; required in ITU for option 3 (NOTE))

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**NOTE:** For option 3, the additional minimum information that shall also be provided is listed in the option 3 box above.

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PATENT STATEMENT AND LICENSING DECLARATION FORM FOR
ITU-T OR ITU-R RECOMMENDATION | ISO OR IEC DELIVERABLE

Patent Statement and Licensing Declaration
for ITU-T or ITU-R Recommendation | ISO or IEC Deliverable

This declaration does not represent an actual grant of a license

Please return to the relevant organization(s) as instructed below per document type:

Director
Telecommunication
Standardization Bureau
International Telecommunication Union
Place des Nations
CH-1211 Geneva 20,
Switzerland
Fax: +41 22 730 5853
Email: ssdir@itu.int

Director
Radiocommunication Bureau
International Telecommunication Union
Place des Nations
CH-1211 Geneva 20,
Switzerland
Fax: +41 22 730 5785
Email: brmail@itu.int

Secretary-General
International Organization for Standardization
1 chemin de la Voie-Creuse
CH-1211 Geneva 20
Switzerland
Fax: +41 22 733 3430
Email: patentstatements@iso.org

General Secretary
International Electrotechnical Commission
3 rue de Varembé
CH-1211 Geneva 20
Switzerland
Fax: +41 22 919 0300
Email: inmail@iec.ch

Patent Holder:
QUALCOMM Incorporated

Contact for license application:
Thomas R. Rouse, VP QTL Patent Counsel

Name & Department:

Address:
5775 Morehouse Drive
San Diego, CA 92121

Tel. 858-587-1121
Fax 858-845-4122
E-mail trouse@qualcomm.com
URL (optional) www.qualcomm.com

Document type:
- ITU-T Rec. (*)
- ITU-R Rec. (*)
- ISO Deliverable (*)
- IEC Deliverable (*)

(please return the form to the relevant Organization)

- Common text or twin text (ITU-T Rec. | ISO/IEC Deliverable (*)) (for common text or twin text, please return the form to each of the three Organizations: ITU-T, ISO, IEC)

- ISO/IEC Deliverable (*) (for ISO/IEC Deliverables, please return the form to both ISO and IEC)

(*)Number ISO/IEC DIS 23008-2|ITU-T HEVC

(*)Title High Efficiency Video Coding
Licensing declaration:
The Patent Holder believes that it holds granted and/or pending applications for Patents, the use of which would be required to implement the above document and hereby declares, in accordance with the Common Patent Policy for ITU-T/ITU-R/ISO/IEC, that (check one box only):

☐ 1. The Patent Holder is prepared to grant a Free of Charge license to an unrestricted number of applicants on a worldwide, non-discriminatory basis and under other reasonable terms and conditions to make, use, and sell implementations of the above document.
Negotiations are left to the parties concerned and are performed outside the ITU-T, ITU-R, ISO or IEC.
Also mark here __ if the Patent Holder’s willingness to license is conditioned on Reciprocity for the above document.
Also mark here __ if the Patent Holder reserves the right to license on reasonable terms and conditions (but not Free of Charge) to applicants who are only willing to license their Patent, whose use would be required to implement the above document, on reasonable terms and conditions (but not Free of Charge).

X 2. The Patent Holder is prepared to grant a license to an unrestricted number of applicants on a worldwide, non-discriminatory basis and on reasonable terms and conditions to make, use and sell implementations of the above document.
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Also mark here X if the Patent Holder’s willingness to license is conditioned on Reciprocity for the above document.

☐ 3. The Patent Holder is unwilling to grant licenses in accordance with provisions of either 1 or 2 above.
In this case, the following information must be provided to ITU, and is strongly desired by ISO and IEC, as part of this declaration:
- granted patent number or patent application number (if pending);
- an indication of which portions of the above document are affected;
- a description of the Patents covering the above document.

Free of Charge: The words “Free of Charge” do not mean that the Patent Holder is waiving all of its rights with respect to the Patent. Rather, “Free of Charge” refers to the issue of monetary compensation; i.e., that the Patent Holder 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 Patent Holder in this situation is committing to not charging any monetary amount, the Patent Holder is still entitled to require that the implementer of the same above document sign a license agreement that contains other reasonable terms and conditions such as those relating to governing law, field of use, warranties, etc.

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Patent: The word “Patent” means those claims contained in and identified by patents, utility models and other similar statutory rights based on inventions (including applications for any of these) solely to the extent that any such claims are essential to the implementation of the same above document. Essential patents are patents that would be required to implement a specific Recommendation | Deliverable.
# Patent Information
(desired but not required for options 1 and 2; required in ITU for option 3 (NOTE))

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☐ Check here if additional patent information is provided on additional pages.

NOTE: For option 3, the additional minimum information that shall also be provided is listed in the option 3 box above.

---

**Signature (include on final page only):**

**QUALCOMM Incorporated**

**Thomas R. Rouse**

**VP, QTL Patent Counsel**

**San Diego, California, USA**

FORM: 23 April 2012
PATENT STATEMENT AND LICENSING DECLARATION FORM FOR
ITU-T OR ITU-R RECOMMENDATION | ISO OR IEC DELIVERABLE

Patent Statement and Licensing Declaration
for ITU-T or ITU-R Recommendation | ISO or IEC Deliverable

This declaration does not represent an actual grant of a license

Please return to the relevant organization(s) as instructed below per document type:

**Patent Holder:** QUALCOMM Incorporated

**Contact for license application:** Thomas R. Rouse, VP QTL Patent Counsel

**Document type:**
- ✗ ITU-T Rec. (*)
- ✗ ITU-R Rec. (*)
- ✗ ISO Deliverable (*)
- ✗ IEC Deliverable (*)

(please return the form to the relevant Organization)

- ✗ Common text or twin text (ITU-T Rec. | ISO/IEC Deliverable (*)) (for common text or twin text, please return the form to each of the three Organizations: ITU-T, ISO, IEC)

- ✗ ISO/IEC Deliverable (*) (for ISO/IEC Deliverables, please return the form to both ISO and IEC)

**(*)Number** ISO/IEC 23008-2

**(*)Title** High Efficiency Video Coding
**Licensing declaration:**
The Patent Holder believes that it holds granted and/or pending applications for Patents, the use of which would be required to implement the above document and hereby declares, in accordance with the Common Patent Policy for ITU-T/ITU-R/ISO/IEC, that (check one box only):

1. The Patent Holder is prepared to grant a Free of Charge license to an unrestricted number of applicants on a worldwide, non-discriminatory basis and under other reasonable terms and conditions to make, use, and sell implementations of the above document.
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☐ Check here if additional patent information is provided on additional pages.

NOTE: For option 3, the additional minimum information that shall also be provided is listed in the option 3 box above.

**Signature (include on final page only):**

Patent Holder: QUALCOMM Incorporated

Name of authorized person: Thomas R. Rouse

Title of authorized person: VP, QTL Patent Counsel

Signature: [Signature]

Place, Date: San Diego, California, USA  [Date]

FORM: 23 April 2012
Dear Ms. Seignious,

Regarding Qualcomm’s revised declaration statement submitted on 2012-10-03, please be informed that the declaration has been reviewed and approved by our legal adviser.

The patent database has now been updated accordingly and accessible at:
http://www.iso.org/patents.

Thank you.

Best regards,
Maho Takahashi

---

Hello Ms. Takahashi,

As requested from you below, attached is Qualcomm Incorporated’s Revised Patent Statement and Licensing Declaration to ISO/IEC DIS 23008-2| ITU-T HEVC dated October 3, 2012. Please process this Declaration at your earliest convenience and confirm with us that this Declaration has been accepted.

Thank you very much,

Kayla R. Seignious
Legal Analyst
5775 Morehouse Drive, N560N
San Diego, CA 92121
858-845-3313 (direct)
Dear Ms Seignious,

The enclosed patent declaration was sent to us for registration.

May we request you to indicate the relevant ISO/IEC Deliverable number without including published year, nor draft reference as shown below.

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Could you kindly make the change accordingly by eliminating the "DIS" and provide us with a new statement?

Thank you in advance.

With kind regards,

Maho Takahashi (Ms.)
ISO/IEC Information Technology Task Force
ISO Central Secretariat
1, ch. de la Voie-Creuse
Case postale 56
CH-1211 Genève 20
Switzerland

Tel: +41 22 749 03 70
Fax: +41 22 749 73 49
E-mail: takahashi@iso.org
Web: www.iso.org

Please consider the environment before printing this email

From: Seignious, Kayla [mailto:kaylas@qualcomm.com]
Sent: 2012-09-12 19:58
To: PSTATEMENTS; inmail@iec.ch; tsbdir@itu.int; Ratta, Greg
Cc: lbarra@itic.org; Acaldas@ansi.org; Rouse, Thomas; Hill, Tony; Seignious, Kayla

12 September 2012

Via Email Only
ATTN: Secretary-General International Organization for Standardization
ATTN: General Secretary International Electrotechnical Commission
ATTN: Director International Telecommunication Union


Dear Sirs:

Per Greg Ratta on September 11, 2012, we have revised our declaration and are re-submitting using the updated form. Attached please find QUALCOMM Incorporated's Revised Patent Statement and Licensing Declaration of September 12, 2012 to ISO/IEC DIS 23008-2 (High Efficiency Video Coding) | ITU-T HEVC.

Please confirm receipt of this declaration at your earliest convenience via email to kaylas@qualcomm.com. If you have any questions or concerns, please contact Tom Rouse or Kayla Seignious at 858-587-1121. Thank you for your assistance with this matter.

Kayla R. Seignious
Legal Analyst
5775 Morehouse Drive, AT310J
San Diego, CA 92131
858-845-3313 (direct)

cc: Ms. Lynn Barra (Via email)
Director of Standards Operations
INCITS/Information Technology Industry Council

cc: Ms. Anne Caldas (Via email)
Director, Procedures and Standards Administration
American National Standards Institute (ANSI)
Dear Kayla R. Seignious,

The record has been entered into the ITU-T IPR Database.

Best regards,

Greg Ratta
TSB QA Engineer - Editor / IPR Database Administrator
e-mail: greg.ratta@itu.int
Phone: +41 22 730 6320
Fax: +41 22 730 5853

International Telecommunication Union
Place des Nations
CH-1211 Geneva 20
Switzerland

Greg

From: Seignious, Kayla [mailto:kayla@qualcomm.com]
Sent: Wednesday, October 03, 2012 8:12 PM
To: Maho TAKAHASHI; PSTATEMENTS (Patent.Statements@iso.org); inmail@iec.ch; TSBDir, ITU
Cc: Rouse, Thomas; Hill, Tony; Seignious, Kayla; Ibarra@itic.org; Acaldas@ansi.org

Hello Ms. Takahashi,

As requested from you below, attached is Qualcomm Incorporated’s Revised Patent Statement and Licensing Declaration to ISO/IEC DIS 23008-2] ITU-T HEVC dated October 3, 2012. Please process this Declaration at your earliest convenience and confirm with us that this Declaration has been accepted.

Thank you very much,

Kayla R. Seignious
Legal Analyst
5775 Morehouse Drive; N560N
San Diego, CA 92121
858-845-3313 (direct)
From: Maho TAKAHASHI [mailto:TAKAHASHI@iso.org]
Sent: Friday, September 28, 2012 2:33 AM
To: Seignious, Kayla
Cc: Maho TAKAHASHI

Dear Ms Seignious,

The enclosed patent declaration was sent to us for registration.

May we request you to indicate the relevant ISO/IEC Deliverable number without including published year, nor draft reference as shown below.

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<th>ISO/IEC Deliverable (*) (for ISO IEC Deliverables, please return the form to both ISO and IEC)</th>
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Could you kindly make the change accordingly by eliminating the "DIS" and provide us with a new statement?

Thank you in advance.

With kind regards,

Maho Takahashi (Ms.)
ISO/IEC Information Technology Task Force
ISO Central Secretariat
1, ch. de la Voie-Creuse
Case postale 56
CH-1211 Genève 20
Switzerland

Tel: +41 22 749 03 70
Fax: +41 22 749 73 49
E-mail: takahashi@iso.org
Web: www.iso.org

Please consider the environment before printing this email

<= /p>
12 September 2012

Via Email Only

ATTN: Secretary-General International Organization for Standardization
ATTN: General Secretary International Electrotechnical Commission
ATTN: Director International Telecommunication Union


Dear Sirs:

Per Greg Ratta on September 11, 2012, we have revised our declaration and are re-submitting using the updated form. Attached please find QUALCOMM Incorporated’s Revised Patent Statement and Licensing Declaration of September 12, 2012 to ISO/IEC DIS 23008-2 (High Efficiency Video Coding) | ITU-T HEVC.

Please confirm receipt of this declaration at your earliest convenience via email to kaylas@qualcomm.com. If you have any questions or concerns, please contact Tom Rouse or Kayla Seignious at 858-587-1121. Thank you for your assistance with this matter.

Kayla R. Seignious
Legal Analyst
5775 Morehouse Drive, AT310J
San Diego, CA 92131
858-845-3313 (direct)

cc: Ms. Lynn Barra (Via email)
Director of Standards Operations
INCITS/Information Technology Industry Council

cc: Ms. Anne Caldas (Via email)
Director, Procedures and Standards Administration
American National Standards Institute (ANSI)