



Disclosure Statement and Licensing Declaration
This declaration does not represent an implied license grant

Please return to:

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Suite 1200
Washington, DC 20006
202-872-9160 – Office
202-872-9161 – Fax

Discloser:	
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URL (optional)	
Identification of ATSC Specification Document relevant to the Disclosure Statement:	
Number	ATSC A/322
Title	ATSC 3.0 Physical Layer Protocol

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>i.e.</i> , 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.

Disclosure of Patents

In accordance with Sections 3 and 4 of the ATSC Patent Policy, please identify each patent or patent application forming the subject matter of any Potential Claim of which any Representative of the Discloser who is active in an ATSC technology group or specialist group has actual personal knowledge. The Discloser, in good faith, believes that the Potential Claim may be relevant to the implementation of the Specification Document identified by this Disclosure Statement.

N o.	Patent / Application No. and Country	Patent / Application Holder	Status [granted/ pending]
1	2,864,634 CA	ETRI	granted
2	2,959,610 CA	ETRI	pending
3	14186085.8 EP	ETRI	pending
4	2014-0120015 KR	ETRI	pending
5	350602 MX	ETRI	granted
6	MX/A/2017/011581 MX	ETRI	pending
7	9450611 US	ETRI	granted
8	9729172 US	ETRI	granted
9	15/641060 US	ETRI	pending
10	2,880,594 CA	ETRI	pending
11	2015-0002166 KR	ETRI	pending
12	345597 MX	ETRI	granted
13	MX/A/2017/001598 MX	ETRI	pending
14	9577678 US	ETRI	granted
15	15/402107 US	ETRI	pending
16	2,881,540 CA	ETRI	granted
17	2,964,557 CA	ETRI	pending
18	2014-0016868 KR	ETRI	pending
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20	2015-0017770 KR	ETRI	pending
21	348125 MX	ETRI	granted

22	MX/A/2017/006946 MX	ETRI	pending
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33	15754812.4 EP	ETRI	pending
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35	2015-0026040 KR	ETRI	pending
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61	2017-522303 JP	ETRI / Korea Maritime and Ocean University	pending
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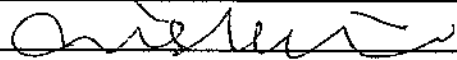
Disclosure of Information

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	_____
	Electronics and Telecommunications Research Institute
Name of Representative	_____
	Min-Sheo Choi
Title of Representative	_____
	Director of Intellectual Property Business Section
Signature	_____
	
Place, Date	_____
	Daejeon, Republic of Korea, November 23, 2017