

ATSC

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:

Name of Participant Samsung Electronics Co.,LTD.

Contact Information for Participant's Representative:

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URL (Optional)

Identification of ATSC Specification Document relevant to the Disclosure Statement:

Number ATSC Candidate Standard A/322 (Physical Layer Protocol), A/331 (Signaling, Delivery,
Title Synchronization, and Error Protection)

Licensing Declaration	
<p>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).</p>	
<input type="checkbox"/>	<p>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 <u> </u> if the Discloser's willingness to license is conditioned on reciprocity for the above ATSC Standard.</p>
<input checked="" type="checkbox"/>	<p>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 <u> X </u> if the Discloser's willingness to license is conditioned on reciprocity for the above ATSC Standard.</p>
<input type="checkbox"/>	<p>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.</p>
<p>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.</p>	
<p>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.</p>	

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.

No.	Patent / Application No.	Country	Patent / Application Holder	Status [granted/pending]
1	2004303047	AU	Samsung Electronics Co.,LTD.	Granted
	2536234	CA	Samsung Electronics Co.,LTD.	Granted
	ZL200480025726.5	CN	Samsung Electronics Co.,LTD.	Granted
	1515504	DE	Samsung Electronics Co.,LTD.	Granted
	1515504	EP	Samsung Electronics Co.,LTD.	Granted
	1515504	FR	Samsung Electronics Co.,LTD.	Granted
	1515504	GB	Samsung Electronics Co.,LTD.	Granted
	242608	IN	Samsung Electronics Co.,LTD.	Granted
	1515504	IT	Samsung Electronics Co.,LTD.	Granted
	4303288	JP	Samsung Electronics Co.,LTD.	Granted
	P0933115	KR	Samsung Electronics Co.,LTD.	Granted
	2313910	RU	Samsung Electronics Co.,LTD.	Granted
	1515504	SE	Samsung Electronics Co.,LTD.	Granted
	US7340006	US	Samsung Electronics Co.,LTD.	Granted
2	2685692	AT	Samsung Electronics Co.,LTD.	Granted
	2685692	BE	Samsung Electronics Co.,LTD.	Granted
	2685692	BG	Samsung Electronics Co.,LTD.	Granted
	2685692	CH	Samsung Electronics Co.,LTD.	Granted
	2153600	CZ	Samsung Electronics Co.,LTD.	Granted
	2442512	CZ	Samsung Electronics Co.,LTD.	Granted
	2685692	CZ	Samsung Electronics Co.,LTD.	Granted
	2153600	DE	Samsung Electronics Co.,LTD.	Granted
	2442512	DE	Samsung Electronics Co.,LTD.	Granted
	2685692	DE	Samsung Electronics Co.,LTD.	Granted
	2685692	DK	Samsung Electronics Co.,LTD.	Granted
	2153600	EP	Samsung Electronics Co.,LTD.	Granted
	2442512	EP	Samsung Electronics Co.,LTD.	Granted
	2685692	EP	Samsung Electronics Co.,LTD.	Granted
	2153600	ES	Samsung Electronics Co.,LTD.	Granted
	2442512	ES	Samsung Electronics Co.,LTD.	Granted
	2685692	ES	Samsung Electronics Co.,LTD.	Granted
	2153600	FI	Samsung Electronics Co.,LTD.	Granted
2442512	FI	Samsung Electronics Co.,LTD.	Granted	

	2685692	FI	Samsung Electronics Co.,LTD.	Granted
	2153600	FR	Samsung Electronics Co.,LTD.	Granted
	2442512	FR	Samsung Electronics Co.,LTD.	Granted
	2685692	FR	Samsung Electronics Co.,LTD.	Granted
	2153600	GB	Samsung Electronics Co.,LTD.	Granted
	2442512	GB	Samsung Electronics Co.,LTD.	Granted
	2685692	GB	Samsung Electronics Co.,LTD.	Granted
	2685692	GR	Samsung Electronics Co.,LTD.	Granted
	2153600	HU	Samsung Electronics Co.,LTD.	Granted
	025160	HU	Samsung Electronics Co.,LTD.	Granted
	2685692	HU	Samsung Electronics Co.,LTD.	Granted
	2153600	IT	Samsung Electronics Co.,LTD.	Granted
	2442512	IT	Samsung Electronics Co.,LTD.	Granted
	2685692	IT	Samsung Electronics Co.,LTD.	Granted
	2153600	NL	Samsung Electronics Co.,LTD.	Granted
	2442512	NL	Samsung Electronics Co.,LTD.	Granted
	2685692	NL	Samsung Electronics Co.,LTD.	Granted
	2685692	NO	Samsung Electronics Co.,LTD.	Granted
	2153600	PL	Samsung Electronics Co.,LTD.	Granted
	2442512	PL	Samsung Electronics Co.,LTD.	Granted
	2685692	PL	Samsung Electronics Co.,LTD.	Granted
	2685692	PT	Samsung Electronics Co.,LTD.	Granted
	2685692	RO	Samsung Electronics Co.,LTD.	Granted
	2153600	SE	Samsung Electronics Co.,LTD.	Granted
	2442512	SE	Samsung Electronics Co.,LTD.	Granted
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	2685692	SI	Samsung Electronics Co.,LTD.	Granted
	2153600	SK	Samsung Electronics Co.,LTD.	Granted
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	2685692	SK	Samsung Electronics Co.,LTD.	Granted
	2685692	TR	Samsung Electronics Co.,LTD.	Granted
	US8300714	US	Samsung Electronics Co.,LTD.	Granted
3	2009220393	AU	Samsung Electronics Co.,LTD.	Granted
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	201310127349.7	CN	Samsung Electronics Co.,LTD.	Pending
	09154123.5	EP	Samsung Electronics Co.,LTD.	Pending
	6950/DELNP/2010	IN	Samsung Electronics Co.,LTD.	Pending
	5301575	JP	Samsung Electronics Co.,LTD.	Granted
	5461728	JP	Samsung Electronics Co.,LTD.	Granted
	US8321745	US	Samsung Electronics Co.,LTD.	Granted
	US8533556	US	Samsung Electronics Co.,LTD.	Granted
4	2010322598	AU	Samsung Electronics Co.,LTD.	Granted
	ZL201080061781.5	CN	Samsung Electronics Co.,LTD.	Granted

	10191630.2	EP	Samsung Electronics Co.,LTD.	Pending
	5116/CHENP/2012	IN	Samsung Electronics Co.,LTD.	Pending
	5612699	JP	Samsung Electronics Co.,LTD.	Granted
	P20127015593	KR	Samsung Electronics Co.,LTD.	Pending
	US8707125	US	Samsung Electronics Co.,LTD.	Granted
	US9154341	US	Samsung Electronics Co.,LTD.	Granted
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5	10836189.0	EP	Samsung Electronics Co.,LTD.	Pending
	US8689093	US	Samsung Electronics Co.,LTD.	Granted
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	US14/842210	US	Samsung Electronics Co.,LTD.	Pending
6	201180020090.5	CN	Samsung Electronics Co.,LTD.	Pending
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7	2013255124	AU	Samsung Electronics Co.,LTD.	Pending
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	13784923.8	EP	Samsung Electronics Co.,LTD.	Pending
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	2015-510187	JP	Samsung Electronics Co.,LTD.	Pending
	2016-045771	JP	Samsung Electronics Co.,LTD.	Pending
	P1501344	KR	Samsung Electronics Co.,LTD.	Granted
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8	2,909,906	CA	Samsung Electronics Co.,LTD.	Pending
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	2016-041616	JP	Samsung Electronics Co.,LTD.	Pending
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9	BR1120150311130	BR	Samsung Electronics Co.,LTD.	Pending
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10	P20150024183	KR	Samsung Electronics Co.,LTD.	Pending
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	US15/099946	US	Samsung Electronics Co.,LTD.	Pending
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11	P20150000677	KR	Samsung Electronics Co.,LTD.	Pending
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12	P20150017971	KR	Samsung Electronics Co.,LTD.	Pending
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13	P20150069924	KR	Samsung Electronics Co.,LTD.	Pending
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14	P20150000697	KR	Samsung Electronics Co.,LTD.	Pending
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16	P20150000671	KR	Samsung Electronics Co.,LTD.	Pending
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17	BR1120160001460	BR	Samsung Electronics Co.,LTD.	Pending
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18	US14/716053	US	Samsung Electronics Co.,LTD.	Pending
19	US14/716324	US	Samsung Electronics Co.,LTD.	Pending
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22	US14/715674	US	Samsung Electronics Co.,LTD.	Pending

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24	US14/714565	US	Samsung Electronics Co.,LTD.	Pending
25	US14/715817	US	Samsung Electronics Co.,LTD.	Pending
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27	US14/715892	US	Samsung Electronics Co.,LTD.	Pending
28	US14/715747	US	Samsung Electronics Co.,LTD.	Pending
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	PCT/KR2014/006125	PCT	Samsung Electronics Co.,LTD.	Pending
31	P20150137181	KR	Samsung Electronics Co.,LTD.	Pending
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	US15/130181	US	Samsung Electronics Co.,LTD.	Pending
	PCT/KR2016/002074	PCT	Samsung Electronics Co.,LTD.	Pending
32	P20150137184	KR	Samsung Electronics Co.,LTD.	Pending
	US15/058353	US	Samsung Electronics Co.,LTD.	Pending
	PCT/KR2016/002087	PCT	Samsung Electronics Co.,LTD.	Pending
33	P20150137188	KR	Samsung Electronics Co.,LTD.	Pending
	US15/058348	US	Samsung Electronics Co.,LTD.	Pending
	PCT/KR2016/002091	PCT	Samsung Electronics Co.,LTD.	Pending
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	US15/058242	US	Samsung Electronics Co.,LTD.	Pending
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35	P20150137185	KR	Samsung Electronics Co.,LTD.	Pending
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	US15/058318	US	Samsung Electronics Co.,LTD.	Pending
	US15/130011	US	Samsung Electronics Co.,LTD.	Pending
	PCT/KR2016/002093	PCT	Samsung Electronics Co.,LTD.	Pending
36	P20150137183	KR	Samsung Electronics Co.,LTD.	Pending
	US15/058515	US	Samsung Electronics Co.,LTD.	Pending
	PCT/KR2016/002086	PCT	Samsung Electronics Co.,LTD.	Pending

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.

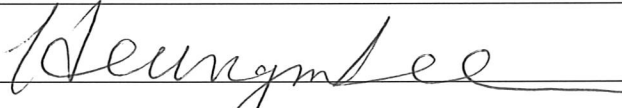
Completed By:

Name of Participant Samsung Electronics Co,LTD.

Name of Representative Heungmo Lee

Title of Representative Senior Vice President

Signature



Place, Date

Seoul, Korea, May 18, 2016