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



Director

Union

Telecommunication Standardization Bureau

Place des Nations

International Telecommunication



Secretary-General

CH-1214 Geneva

Standardization

Switzerland

International Organization for

8 chemin de Blandonnet

Fax: +41 22 733 3430



General Secretary

3 rue de Varembé

CH-1211 Geneva 20

Fax: +41 22 919 0300

Commission

Switzerland

International Electrotechnical

## 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:

Radiocommunication Bureau

CH-1211 Geneva 20,

International Telecommunication

Director

Union Place des Nations

CH-1211 Geneva 20, Switzerland Fax: +41 22 730 5853 Fmail: tsbdir@itu int	Switzerland Fax. +41 22 730 5785 Email: <u>brmail@itu.int</u>	Fax: +41 22 733 3430 Email: patent statements @iso org	Fax: +41 22 919 0300 Email: inmail@icc.ch		
Patent Holder:					
Legal Name	Telefonaktiebolaget LM Eric	esson (publ)			
Contact for license					
Name &	IPR & Licensing				
Department					
Address	Torshamnsgatan 23				
	164 80 Stockholm				
Tel.					
Fax					
E-mail	patent.licensing@ericsson.co	om	WHITE CO.		
URL (optional)					
Document type:  ITU-T Rec. (* (please return the fo	rm to the relevant Organizatio	ISO Deliverable (*)	IEC Deliverable (*)		
Common text	or twin text (ITU-T Rec.   IS	SO/IEC Deliverable (*)) (fo	r common text or twin		
text, please return th	ne form to each of the three Or	ganizations: ITU-T, ISO, IE	C)		
	verable (*) (for ISO/IEC Deli				
(*)Number	G.989.3		<u> </u>		
(*)Title	40-Gigabit-capable passive optical networks (NG-PON2): Transmission				
	convergence layer specificat	tion			

The Paten would be	declaration: It Holder believes that it holds granted and/or pending applications for Patents, the use of which required to implement the above document and hereby declares, in accordance with the Common licy for ITU-T/ITU-R/ISO/IEC, that (check one box only):
	1. The Patent Holder is prepared to grant a <u>Free of Charge</u> 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 <u>Reciprocity for</u> the above document.  Also mark here if the Patent Holder reserves the right to license on reasonable terms and conditions (but not <u>Free of Charge</u> ) 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 <u>Free of Charge</u> ).
$\times$	2. The Patent Holder is prepared to grant a license to an unrestricted number of applicants or 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 _X_ if the Patent Holder's willingness to license is conditioned on Reciprocity for the above document.
	The Patent Holder is unwilling to grant licenses in accordance with provisions of either I 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:
	<ul> <li>granted patent number or patent application number (if pending);</li> <li>an indication of which portions of the above document are affected;</li> </ul>
Free of C	- a description of the Patents covering the above document.  Charge: The words "Free of Charge" do not mean that the Patent Holder is waiving all of its rights beet to the Patent. Rather, "Free of Charge" refers to the issue of monetary compensation; i.e., that

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.

Reciprocity: 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 Patent(s) for implementation of the same above document Free of Charge or under reasonable terms and conditions.

<u>Patent</u>: 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.

Assignment/transfer of Patent rights: Licensing declarations made pursuant to Clause 2.1 or 2.2 of the Common Patent Policy for ITU-T/ITU-R/ISO/IEC shall be interpreted as encumbrances that bind all successors-in-interest as to the transferred Patents. Recognizing that this interpretation may not apply in all jurisdictions, any Patent Holder who has submitted a licensing declaration according to the Common Patent

Policy - be it selected as option 1 or 2 on the Patent Declaration form - who transfers ownership of a Patent that is subject to such licensing declaration shall include appropriate provisions in the relevant transfer documents to ensure that, as to such transferred Patent, the licensing declaration is binding on the transferee and that the transferee will similarly include appropriate provisions in the event of future transfers with the goal of binding all successors-in-interest.

Patent Information (desired but not required for options 1 and 2; required in ITU for option 3 (NOTE))						
No.	Status [granted/ pending]	Country	Granted Patent Number or Application Number (if pending)	Title		
1	Filed	US	2016-0211909	Hybrid Single-Ended Line Testing		
2						
3						
4						
5						
6						
7						
8						
9						
10						
	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	Telefonaktiebolaget LM Ericsson (publ)	
Name of authorized person	Mathias Hellman	
Title of authorized person	Vice President	
Signature	Mate) freems	
Place, Date	Stockholm, December 19, 2016	

FORM: 26 June 2015

