

## LETTER OF ASSURANCE FOR ESSENTIAL PATENTS

Please return via mail,  
e-mail (.pdf), or FAX to:

Secretary, IEEE-SA Standards Board Patent Committee  
Institute of Electrical and Electronics Engineers, Inc.  
445 Hoes Lane  
Piscataway, NJ 08854 USA  
FAX (+1 732-875-0524) e-mail: patcom@ieee.org

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### **A. PATENT HOLDER/ORGANIZATION:**

Legal Name of Organization: Siemens Aktiengesellschaft

### **B. PATENT HOLDER'S CONTACT FOR LICENSE APPLICATION:**

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### **C. IEEE STANDARD or PROPOSED IEEE STANDARD:**

Number: IEEE P1588  
Title: IEEE Standard for a Precision Clock Synchronization Protocol for Networked Measurement and Control Systems

### **D. PATENT HOLDER'S POSITION REGARDING LICENSING ESSENTIAL PATENT RIGHTS:**

In accordance with Clause 6 of the *IEEE-SA Standards Board Bylaws*, the Patent Holder hereby declares that its licensing position with respect to any patent(s) and/or patent application(s) that it may hold or control, the use of which would be essential to create a compliant implementation of either mandatory or optional portions of the [Proposed] IEEE Standard identified above, is as follows (*check one box only*):

- 1. The Patent Holder will grant a license without compensation to an unrestricted number of applicants on a worldwide, non-discriminatory basis with reasonable terms and conditions to comply with the [Proposed] IEEE Standard.
- 2. The Patent Holder will grant a license under reasonable rates to an unrestricted number of applicants on a worldwide, non-discriminatory basis with reasonable terms and conditions to comply with the [Proposed] IEEE Standard.
- 3. The Patent Holder is unwilling to grant licenses according to the provisions of either 1 or 2 above.
- 4. The Patent Holder states that, without conditions, it will not enforce any of its present or future patent(s) against any person or entity creating a compliant implementation of the [Proposed] IEEE Standard.
- 5. I am not aware of any patent(s) and/or patent application(s) that my company may hold or control that would be essential to create a compliant implementation of the [Proposed] IEEE Standard.

**[Note: Completion of the following section is optional. Nothing in this Letter of Assurance shall be interpreted as giving rise to a duty to conduct a patent search.]**

If the Patent Holder owns or controls patent(s) and/or application(s) that it believes may be essential to create a compliant implementation of the [Proposed] IEEE Standard, please specify the following:

Patent/Application Number: WO 03/028258, EP 1 430 627, DE 102 29 110, US 2004/258097  
Title: METHOD FOR SYNCHRONISING NODES OF A COMMUNICATIONS SYSTEM

Patent/Application Number: WO 03/028259, EP 1 430 628, DE 101 47 422, US 2004/0249982, CN 1561590,  
CA 2 461 472

Title: COMMUNICATIONS SYSTEM AND METHOD FOR SYNCHRONISING A COMMUNICATIONS  
CYCLE

*Use additional pages, as necessary.*

**E. SIGNATURE:**

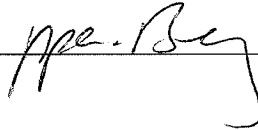
Print name of authorized person: Peter Berg

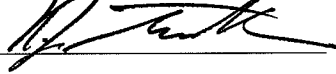
Hans-Jörg Müller

Title of authorized person: Chief IP Licensing Counsel

Senior Licensing Counsel

Signature of authorized person:



i.v. 

Place, Date: Munich, 2007/04/11

*Note: This assurance applies from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable upon acceptance by the IEEE-SA Standards Board Patent Committee.*

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