

P1701

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Type of Project: Modify Existing Approved PAR

PAR Request Date: 09-Dec-2010

PAR Approval Date: 02-Feb-2011

PAR Expiration Date: 30-Jan-2011

Status: Modification to a Previously Approved PAR

Root PAR: P1701 **Approved on:** 07-Dec-2005

1.1 Project Number: P1701

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Optical Port Communication Protocol to Complement the Utility Industry End Device Data Tables

3.1 Working Group: P1701 (SASB/SCC31/P1701)

Contact Information for Working Group Chair

None

Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE-SASB Coordinating Committees/SCC31 - Automatic Meter Reading and Energy Management (SASB/SCC31)

Contact Information for Sponsor Chair

Name: Lawrence Kotewa

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 09/2010

4.3 Projected Completion Date for Submittal to RevCom: 10/2010

5.1 Approximate number of people expected to be actively involved in the development of this project: 15

5.2 Scope: This document is identified by three numbers, MC1218-2009, ANSI C12.18-2006 and IEEE 1701-200X. The standard details the criteria required for communications with a Utility End Device by another device via an optical port. The other device could be a hand held reader, a laptop or portable computer, a master station system, or some other electronic communications device. It shall provide the optical port lower layers communication protocol for the Utility metering Industry including specifically Water, Gas, and Electric.

The Standard provides details for a complete implementation of an OSI 7-layer model in accordance with ISO/IEC 7498-1. The protocol specified in this document was designed to transport data in Table format. The Table definitions are in ANSI C12.19 (MC1219, IEEE 1377) Utility Industry End Device Data Tables.

Old Scope: This document is identified by three numbers, MC1218-2009, ANSI C12.18-2006 and IEEE 1701-200X. The standard details the criteria required for communications with a Utility End Device by another device via an optical port. The other device could be a hand held reader, a laptop or portable computer, a master station system, or some other electronic communications device. It shall provide the optical port lower layers communication protocol for the Utility metering Industry including specifically Water, Gas, and Electric.

The Standard provides details for a complete implementation of an OSI 7-layer model in accordance with ISO/IEC 7498-1. The protocol specified in this document was designed to transport data in Table format. The Table definitions are in ANSI C12.19-2008 (MC1219-2009, IEEE 1377-2009) Utility Industry End Device Data Tables.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: The Utility Industry has need for a standard that provides an operable "plug and play" environment for field metering devices. The purpose of this standard is to define the means to transport the Utility Industry End Device Data Tables via an optical port such that multi-source environment and End Device interchangeability is possible.

5.5 Need for the Project: This work shall provide multi-source and "plug and play" environment for the millions of metering devices

in the field now and the future. It will solve the problems associated with single source systems and with multi-source systems based upon proprietary communications protocols. Electric, Water, and Gas Utilities and corresponding vendors shall realize cost savings which ultimately shall benefit the client consumers of the Utilities.

5.6 Stakeholders for the Standard: energy stakeholders

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: Yes

Organization: Measurement Canada and American National Standards Institute (ANSI) C12 - Electricity Metering

Technical Committee Name: Measurement Canada and American National Standards Institute (ANSI) C12 - Electricity

Metering

Technical Committee Number: ANSI C12

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8.1 Additional Explanatory Notes (Item Number and Explanation): In the second paragraph of the scope, the years of the ANSI C12.18, MC 1218 and IEEE 1377 standards were removed.