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CONTRIBUTION

Project: C12.17
                          ANSI C12.19-1997,IEEE 1377-1997, MC12.19

Title: Proposal for the creation of a C12.19/C12.22 Registry.

Author(s):   Dr. Avygdor Moise

Contact: **Name:**   Avygdor Moise
                          Organization: Future DOS R&D Inc.
                          Address Line 1:   #303, 6707 Elbow Drive S.W.
                          Address Line 2:
                          City, State, & Zip: Calgary, Alberta, Canada. T2V 0E5
                          Phone Number: 403-616-8634
                          Fax Number: 403-203-7071
                          E-Mail Address: avy@fdos.ca

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                          2. C12.22-200x

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                          • ANSI C12 SC17 members
                          • IEEE SCC31 members

Abstract: This is a summary document proposing that Industry establish and operate the
                          C12.19 End-device Class and C12.22 ApTitle registries.

Objectives addressed The concept is to use a "Table Description Language", TDL, and an "End-device
and/or introduced: Description Language", "EDL", using XML (Extensible Mark-up Language) and XML-
                          Schema to describe the end device (meter) state, configuration, standard extensions,
                          operating limits, defaults sets, data structures, operating limits and their
                          interpretation.

                          The Registrar, on behalf of the industry and the Standards bodies, shall validate and
                          assign device class identifiers. This complementary activity shall provide a common
                          framework for end device description.

                          The Registrar shall also manage the assignment of ApTitles groups.

Summary of   Unknown.
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This contribution has been prepared to assist TableFest II. This document is offered as a basis for discussion in accordance with the submission rules of TableFest II (ANSI C12.19-1997, IEEE 1377-200x, MC-Requirements and TF9804-001).

Objectives:

The creation of a registry service and an assignment to a registrar the necessary capability to provide end-device class registration services on behalf of NEMA (ANSI C12.19, C12.22), IEEE (SCC31 1377) and Measurement Canada (MC12.19, MC12.22). The services shall include, but not be limited to:

- Assignment of ANSI C12.19 / IEEE 1377 / MC12.19 End Device Class identifiers;
- Assignment of ANSI C12.22 / IEEE ???? / MC12.22 Node ApTiles;
- Management and maintenance of a registry of assigned device class identifiers;
- Management and maintenance of a registry of assigned nodes' ApTitle;
- Management and maintenance of end device table definition files (TDL) on behalf of the SC12.17;
- Receipt, management and verification of end device table definition files (TDL) on behalf of the industry;
- Provision of a reliable primary point of access to end device class and node ApTitle registries using the Internet (web access via HTTP or FTP)
- Provision of a reliable primary C12.22 Authentication Host for registered ApTitle/Network Device Class validation (Implemented via C12.22 over TCP/IP)
- Facilitation of secondary (or tertiary) points of access to end device class and node ApTitle registries, using mirroring technology over the Internet.
- Maintenance and up keeping of C12.19 TDL Schema of the Standard.
- Provision of reliable and ready access to C12.19 TDL schema to the industry;

Development of Intellectual and material property:
- The Standard's body or possibly an Industry member shall develop, maintain and operate the registry.
- NEMA, IEEE and MC shall have first right for refusal to the Intellectual property developed for the creation, operation and maintenance of the registries; subject to their facilitation and contribution into the project.
- NEMA shall provide to the registrar and developer free and clear a right-to-use license to the Root ApTitle and Root Class object IDs currently registered by NEMA on behalf of C12.

Discontinuation of service issues:
- The registrar shall endeavor to implement the registries using open systems based hardware and software; public domain software and operating system wherever possible.
- The registrar shall facilitate mirroring services to other companies, for increased reliability and availability, based on a selection process that is agreeable to the Standards bodies.
- The registrar shall maintain an installable archive of the registries. The installable package shall include installation and operation instructions. Should the registrar not be able to perform its duties; or should it choose to discontinue the services voluntarily, it will transfer the installable archive to a party designated by the Standards bodies. The transfer of service will be in a manner such to minimize and avoid service interruption.

Access and Service Fees:
- The registrar will provide fair and non-discriminating access to the services to the Industry.
- The fees associated with the provision of the services listed above shall be reasonable and comparable to existing industry practice (or in related fields).
- Fees may be sought for some or all of the following (subject to user needs):
    - Annual subscription for accessing the service (from any site);
    - One time end-device-class registration;
    - One time node group ApTitle registration;

- o   Updates or changes to registration status;
- o   Maintenance of active registration status.

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