

IEEE P1777

Meeting Minutes

January 10, 2007

I. Attendees

| Name | Company | Email |
|-------------------|-----------------------------|--|
| Marc Lacroix | Hydro Quebec | Lacroix.Marc@hydro.qc.ca |
| Frances Cleveland | Xanthus Consulting | fcleve@xanthus-consulting.com |
| Mike Dood | SEL | mikedo@selinc.com |
| Tim Tibbals | SEL | timti@selinc.com |
| Ken Fodero | SEL | Kenfo@selinc.com |
| Chris Huntley | | c.huntley@ieee.org |
| Stan Klein | OSECS | Stan@osecs.com |
| John Newbury | Open University, Manchester | J.E.Newbury@open.ac.uk |
| Damien Tholomier | Areva | Damien.tholomier@areva-td.com |
| Randy Hamilton | Basler Electric | RandyHamilton@basler.com |
| Joe Gould | RuggedCom | JoeGould@ruggedcom.com |
| Mason Clark | DAQ | d.m.clark@ieee.org |
| Joe Hughes | EPRI | jhughes@epri.com |
| Pierre Martin | Hydro Quebec | Martin.pierre.L@hydro.qc.ca |
| Terry Burns | APS | Terrence.Burns@aps.com |
| Dac-Phuoc Bui | Hydro Quebec | bui.dac-phuoc@hydro.qc.ca |

II. Agenda

1. Introduction
2. Presentation of this new working group
3. Scope of P1777
4. Methodology
5. Schedule
6. Anticipated outline of the recommended practice

III. Introduction

P1777 is a joint Working Group sponsored by the Power System Communications (PSCC) and Substations Committee (C0 – Data Acquisition, Processing and Control Systems Subcommittee)

Co-chaired by:

- Frances Cleveland (PSCC Committee)
- Marc Lacroix (Substations Committee)

The goal of this working group is to produce a "Recommended Practices for Using Wireless Data Communications in Power System Operation"

These Recommended Practices will provide guidelines and recommended practices to utilities on potential uses of the various wireless technologies in different arenas of power system operations.

They will also identify the issues and concerns that need to be evaluated and/or tested on individual implementations.

These Recommended Practices describe and make recommendations on the

- functional,
- performance,
- Security,
- on-site testing issues

related to using wireless data communication technologies.

These Recommended Practices will cover different aspects of power system operations:

- electric power substations
- underground vaults,
- along transmission and distribution circuits,
- generation and distributed generation plants,
- other electric power environments

These recommended practices focus on the newer wireless data communication technologies such as:

- WiFi,
- Bluetooth,
- Zigbee,
- WiMax,
- cellular phone

x people were present.

IV. Methodology

- Find authors to contribute for the different topics
- Send a questionnaire to the utilities to have an idea of the existing status of Wireless communication
- Use the results of the consultation to describe use cases in the final document

V. Questionnaire

The questionnaire was reviewed:

- The questionnaire should be reworked in order to suggest a few answers for each question (check box or scrolling list)
- Evaluate the use of a WEB site to compile the results (Monkeysurvey)

VI. Project Schedule

| Activities | Target Date |
|---|--------------------|
| Receive comments regarding the questionnaire | January 19, 2007 |
| Finalize the questionnaire | January 31, 2007 |
| Start sending the questionnaire to the utilities | February 2nd, 2007 |
| Closing date is one month after sending the questionnaire | March 2nd, 2007 |
| Compile the results | June 8, 2007 |
| First draft of the recommended practice | January 31, 2008 |
| Final draft of the recommended practice | March 28, 2008 |
| End of balloting of the recommended practice | November 28, 2008 |

VII. P1777 Outline and Assignment

| <u>Section Title</u> | <u>Responsible</u> |
|--|---------------------------|
| 1. Introduction | |
| 2. Description of wireless technologies and architecture | John Newbury |
| 3. Description of applications that can benefit from wireless technologies | Damien Tholomier |
| 4. Present use of wireless in utilities | Damien Tholomier |
| 5. Description of new capabilities which might become feasible if wireless communications were available | Marc Lacroix |
| 6. Expected benefits from the use of wireless communications | Ken Fodero |

| | |
|--|-------------------------------|
| 7. Possible concerns about using wireless communications | Frances Cleveland, Stan Klein |
| 8. Quality of Service | Joe Gould |
| 9. Environmental | Joe Gould |
| 10. Security, reliability, performance and availability requirements | Frances Cleveland |
| 11. Management issues and policies | Joe Hughes, Frances Cleveland |
| 12. Present standardisation activities | Future |

VIII. Nextmeeting

To be determined

Minutes prepared by: Marc Lacroix