EFFICIENT COLLABORATION BETWEEN METERS UNDER THE SAME TRANSFORMER

ABSTRACT

In an electrical grid, several electricity meters may be associated with the same transformer, and may measure electricity sold to respective customers. In an example, one electricity meter executes manager software, while the other electricity meters execute agent software. One or more applications operated on each electricity meter, and control metrology devices, data processing, operation of radio(s) and/or a powerline communications modem, aspects of electrical phase determination, etc. The agent software operating on each electricity meter may relay messages from applications operating on that electricity meter to other (possibly similar) applications operating on other electricity meters. Each message sent by each instantiation of agent software may include a networking score of that electricity meter. The manager software may additionally communicate with a data collector and/or main office server(s). The manager software may select a replacement meter from among those connected to the same transformer to assume the role of executing manager software.

FIG. 1