

**IMPROVEMENTS TO AN AD-HOC SYSTEM AND A METHOD THEREOF****ABSTRACT**

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The present invention relates to an improvement to an ad-hoc system and a method thereof and wherein the improvement comprises of a server (10), a plurality of devices namely a node (12), a data logger (14) and an ad-hoc wireless network gateway (16). The server (10) is configured and designed to manage a list of connected nodes (12) and apply a shortest path algorithm to generate the optimal routing path between the server (10) and each connected node (12). This process is triggered whenever the list of connected nodes (12) changes. The server (10) is also designed to periodically polls energy consumption readings from the tracked nodes (12) based on a preset sampling interval and in which these readings will be stored in a data store, for example a database table, for future generation of trend analysis reports and energy consumption forecasts and wherein further improvements is that the server (10) is configured to track and alert the system administrator of any node (12) failure cellular text messaging and/or emails.

Figure 1 accompanies the abstract.