

FORMATION AND MAINTENANCE OF
A COMMUNICATION NETWORK

ABSTRACT

According to a broad aspect of the disclosure there is provided a method of establishing a communication network between a number of nodes and a data concentrator (DC) via transmission media. Said method comprise: broadcasting a discovery request, by the DC, across a number of channels defined by the transmission media, said discovery request comprising an address of the DC; receiving the discovery request, by a node, each node configured to determine a path cost of each specific channel via which the discovery request was received; storing, by each node, the path cost associated with each channel; selecting, by each node, a channel having the lowest path cost to the DC; and broadcasting, by each node, a registration request to the DC via the selected channel, said registration request comprising an address of that node.

Figure 1