Wireless sensor networks are a limited set of devices in low battery power, processing, communication, and also low memory bandwidth. For these limitations, most security methodologies applied in wired networks cannot be exploited in this environment. Due to this reality is that we present a hybrid protocol that handles the regime group of key management system and for the interconnection of the transparent cluster. Do not treat the problem of tampering with node-key control group. The feasibility of this protocol was verified by simulation and proved that the increase of network nodes does not affect the performance of the interconnection between two clusters.