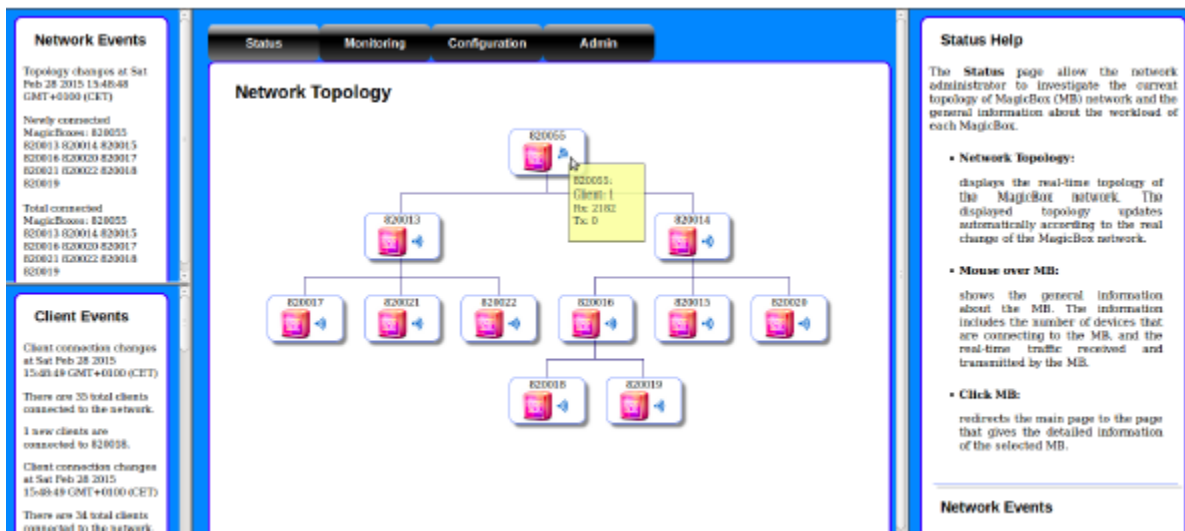JCP C

MoBcache Manager Specification

Once installed in the field, the MoBcaches are configuring themselves automatically in an optimized way, in particular a group of MoBcache will organise in an ad-hoc network which ensures optimal traffic capacity. Also backup paths will be set-up automatically in case of MoBcache mobility, or some RF path failure. In addition, MobManager software allows network administrator realize both monitoring and configuring of the network as well as a single MoBcache. It is also able to report events that happen in the network (for example, a new MoBcache or end user is connected to or disconnected from the network, or RF path change).

Monitoring part includes:

- Traffic monitoring: The traffic of every RF and Ethernet interface of each MoBcache can be monitored in real time; moreover traffic statistics are made available and displayed periodically ;
- MoBcache monitoring: every detailed status of each MoBcache is available, as well as number of clients connected, and position of the MoBcache in the network topology ;
- Clients monitoring: gives the detailed information of devices which are connected to each MoBcache (number of devices, addresses traffic volume,..) Configuration includes;
- Network configuration allows the administrator to change security credentials, and change the RF connection between the MoBcache, therefore modifying the network topology when optimisation requires it.
- Single MoBcache configuration: the network manager can tweak each MoBcache parameters and restart a single MoBcache ; also he can control the load balance between the MoBcaches by limiting the number of client connected to a single MoBcache.