



## *Mikrotik Case Study*

# Charles CATV Systems Inc.

Industry	Cable TV Operator
Location	Masbate City Philippines
No. of user in the network	Est. 800 Subscribers
Website reference	<a href="https://www.facebook.com/charlescatv/">https://www.facebook.com/charlescatv/</a>

### **Problem:**

Charles CATV contacted us with the following network status:

- Needs upgrade on Bandwidth controller for Clients.
- Needs router that can handle multiple WAN sources.
- Needs to forward multiple Network on distribution cables.
- Wants to offer multiple plan with different bandwidths.
- Wants to maximize bandwidth and avoid latency on Data distribution.
- Needs for zero downtime in the network.

### **Solution:**

- We configure the core Router for this ISP with the following router features:
  - Multi-WAN to be able to acquire more bandwidth, to be able to accommodate more clients.
  - Advanced bandwidth management to maximize and distribute the bandwidth well both for shared network clients and dedicated network client



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**MikroTik**  
**PHILIPPINES**

- Advanced firewall security to avoid hacking and different network attack on the Core Gateway of our ISP.
- Use of Advanced ARP to avoid CPE's from being replaced or hacked.
- Traffic or MRTG Graphing for a more precise bandwidth consumption recording of each client.
- Over 30 VLANs to be able to maximize distribution lines and be able to offer different subnets and with different bandwidth speed's.
- Proxy caching to maximize internet speeds and be able to keep records of files and images loaded by previous users.
- VRRP to ensure a backup unit is always up and ready in case we encounter problems on our main router.

### **Pictures Related to Charles CATV Systems Inc.:**

Charles CATV Systems Inc.:



Router used:



RB1100AHx2