

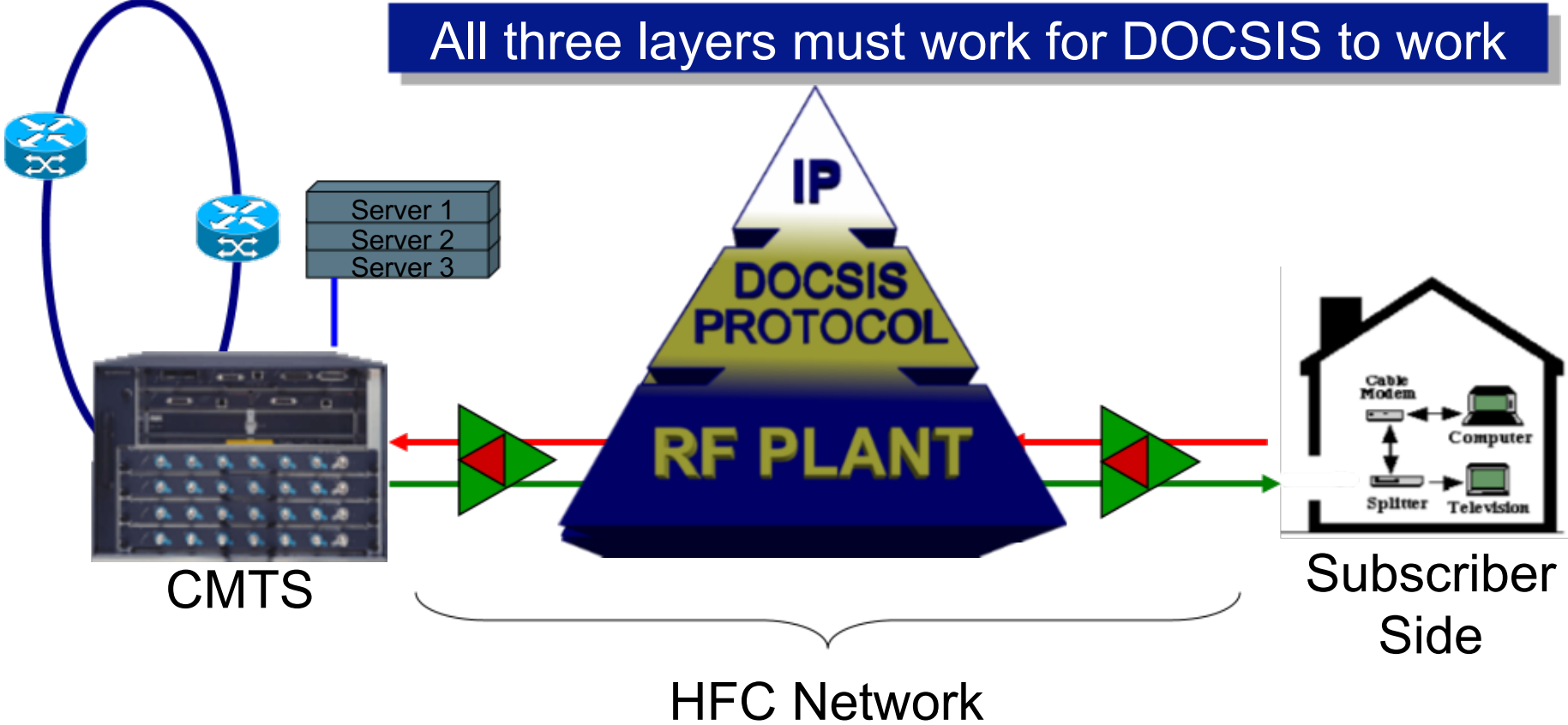
# CM Registration

Simplified Overview

# DOCSIS Communications Model

IP Data Backbone

All three layers must work for DOCSIS to work





# DS Freq. Acquisition

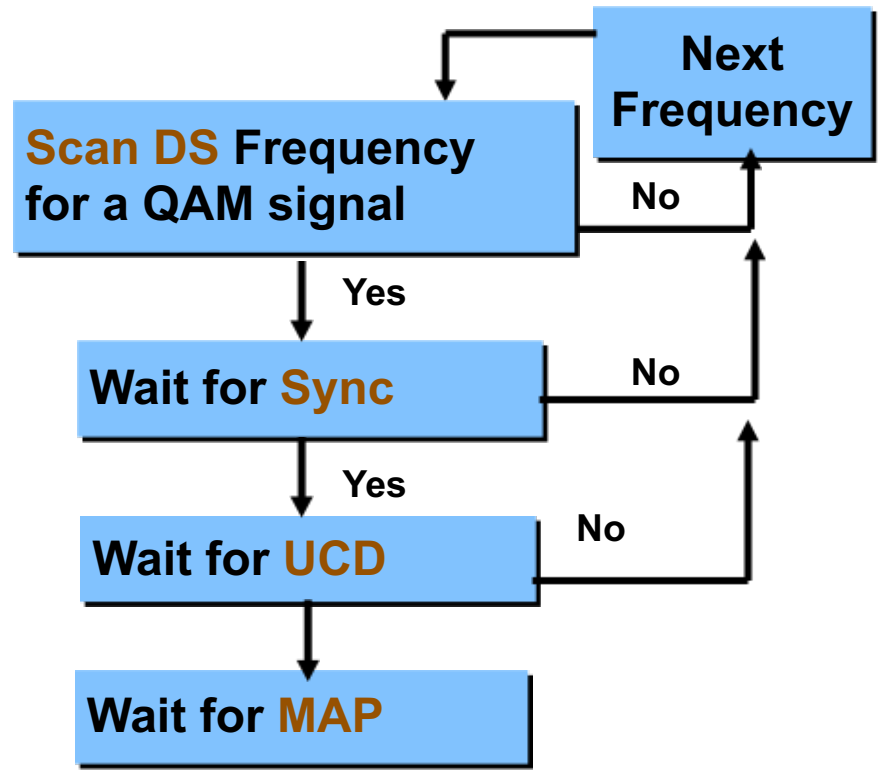
## CMTS

## cable modem

**Sync Broadcast**  
(Minimum one per 200 msec)

**UCD Broadcast** (every 2 sec)

**MAP Broadcast** (every 2 ms)

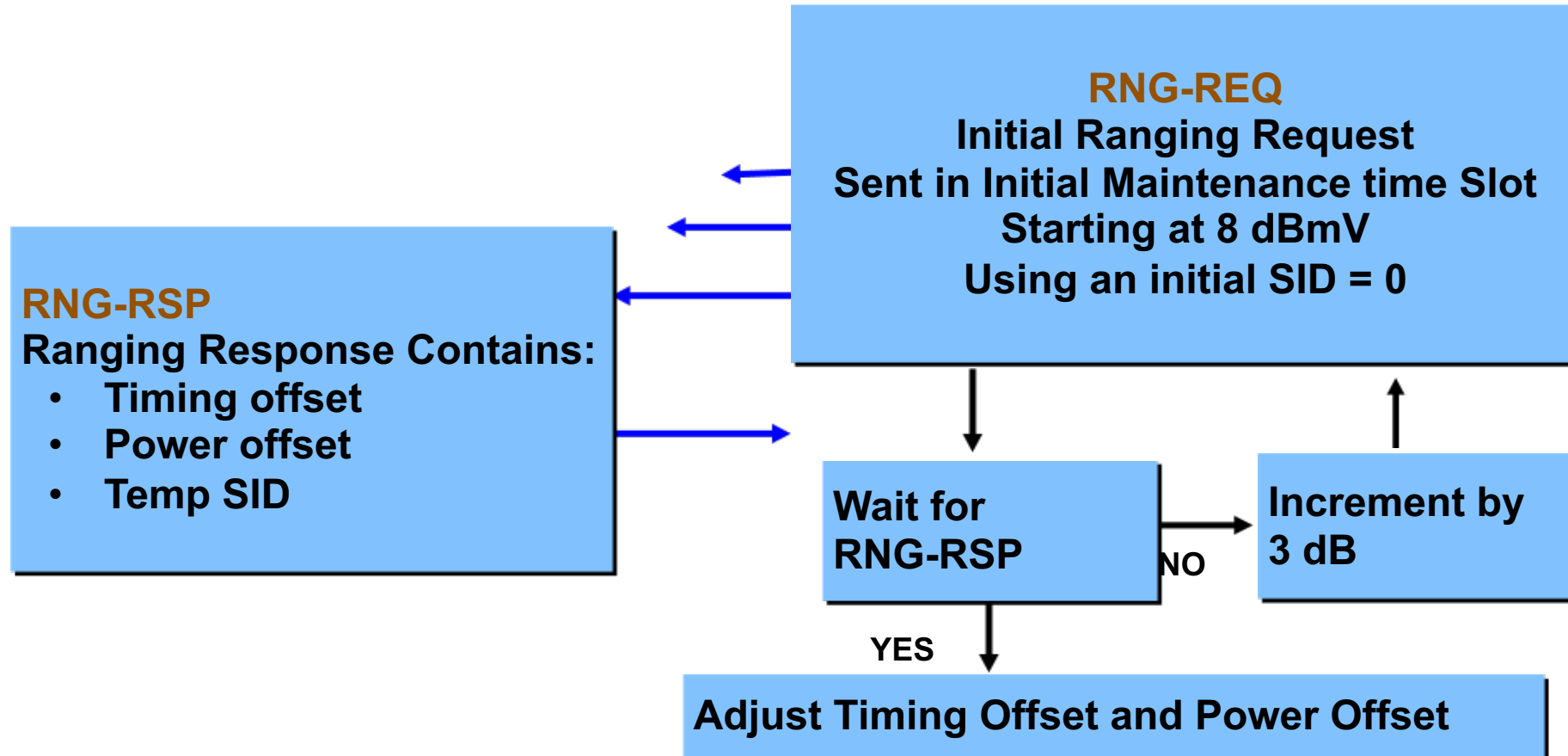


# CM Initial Ranging

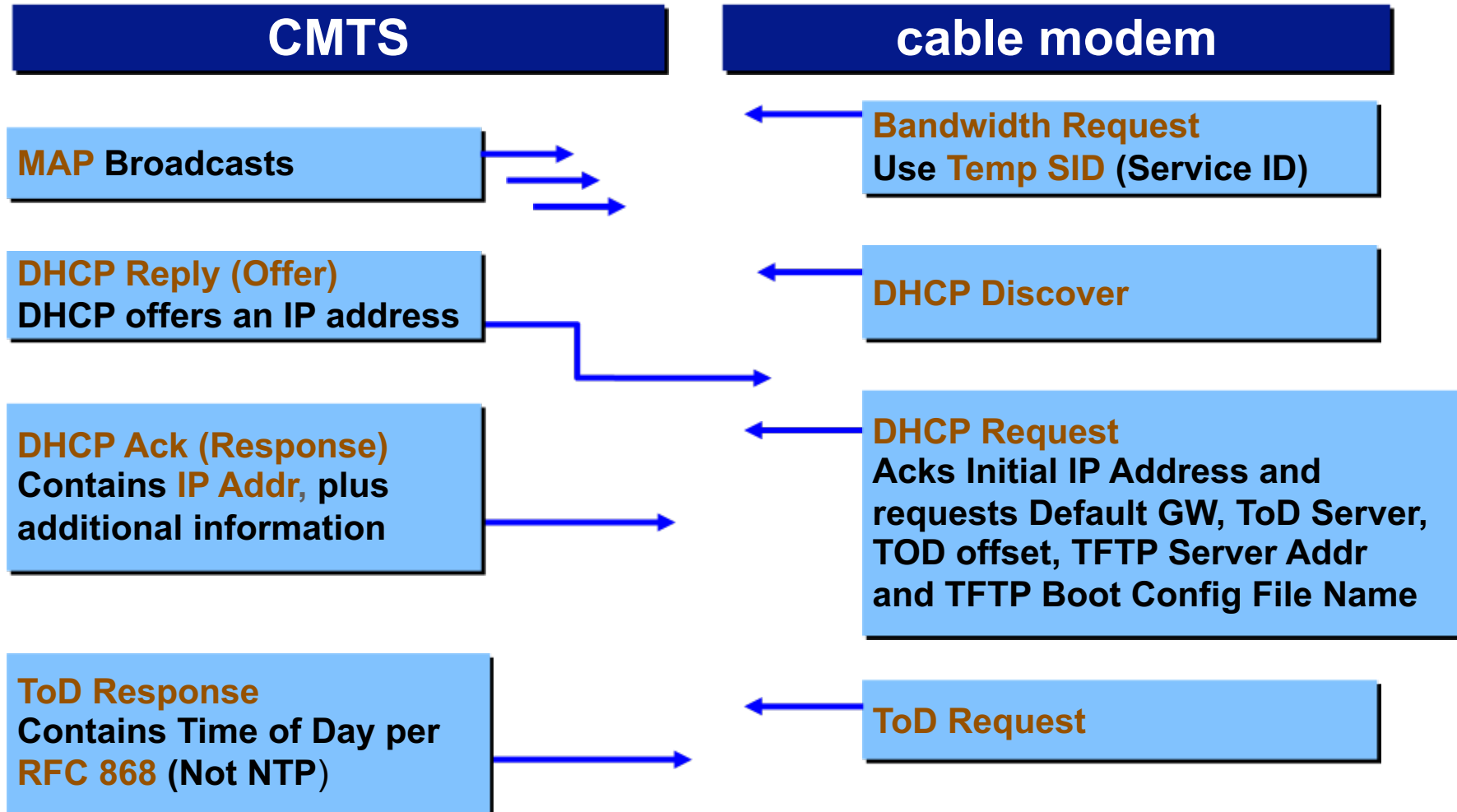


**CMTS**

**cable modem**



# DHCP Overview



# TFTP & Registration

