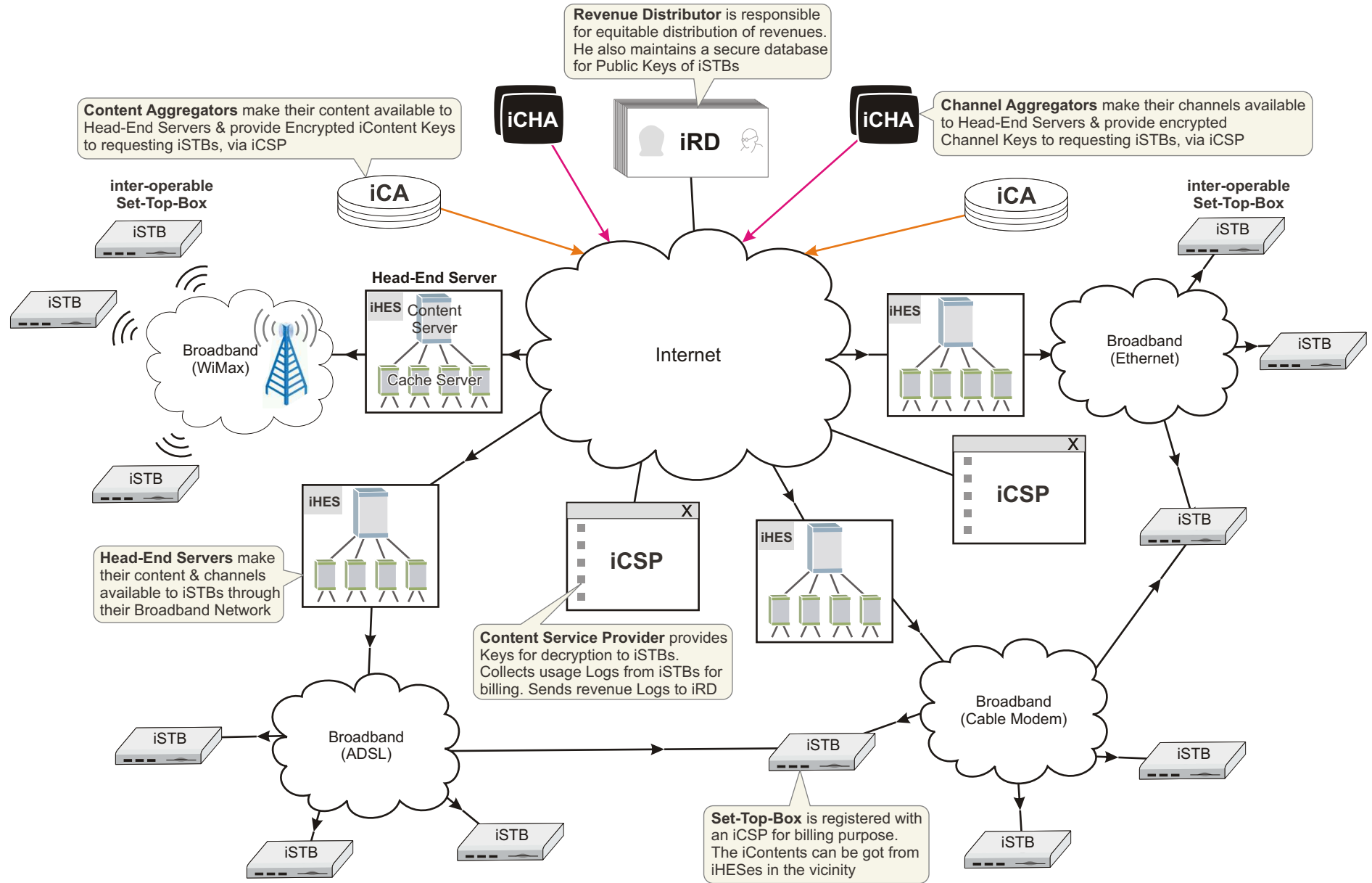
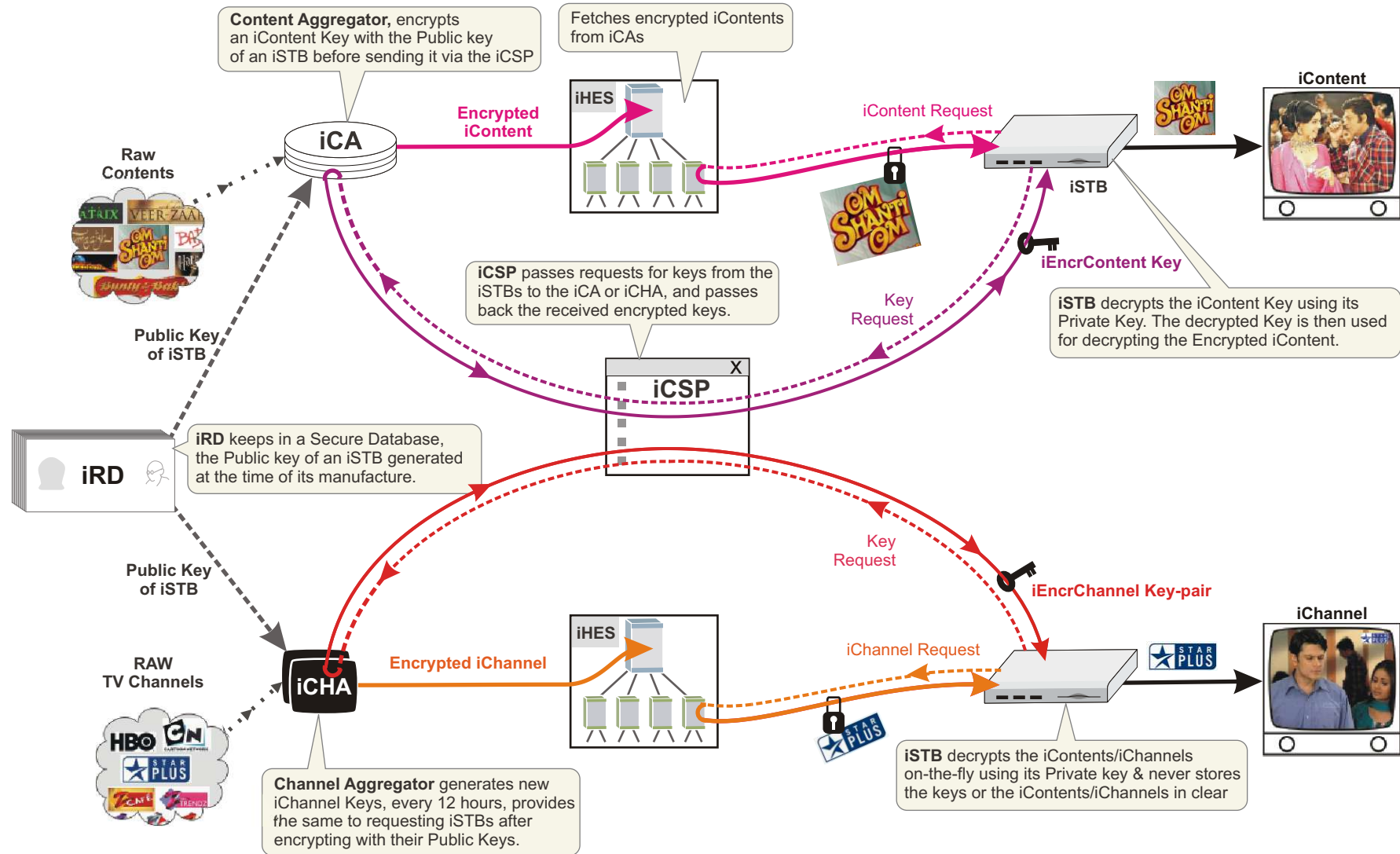


# Figure 1 - IPTV Content Delivery Network (iCDN )

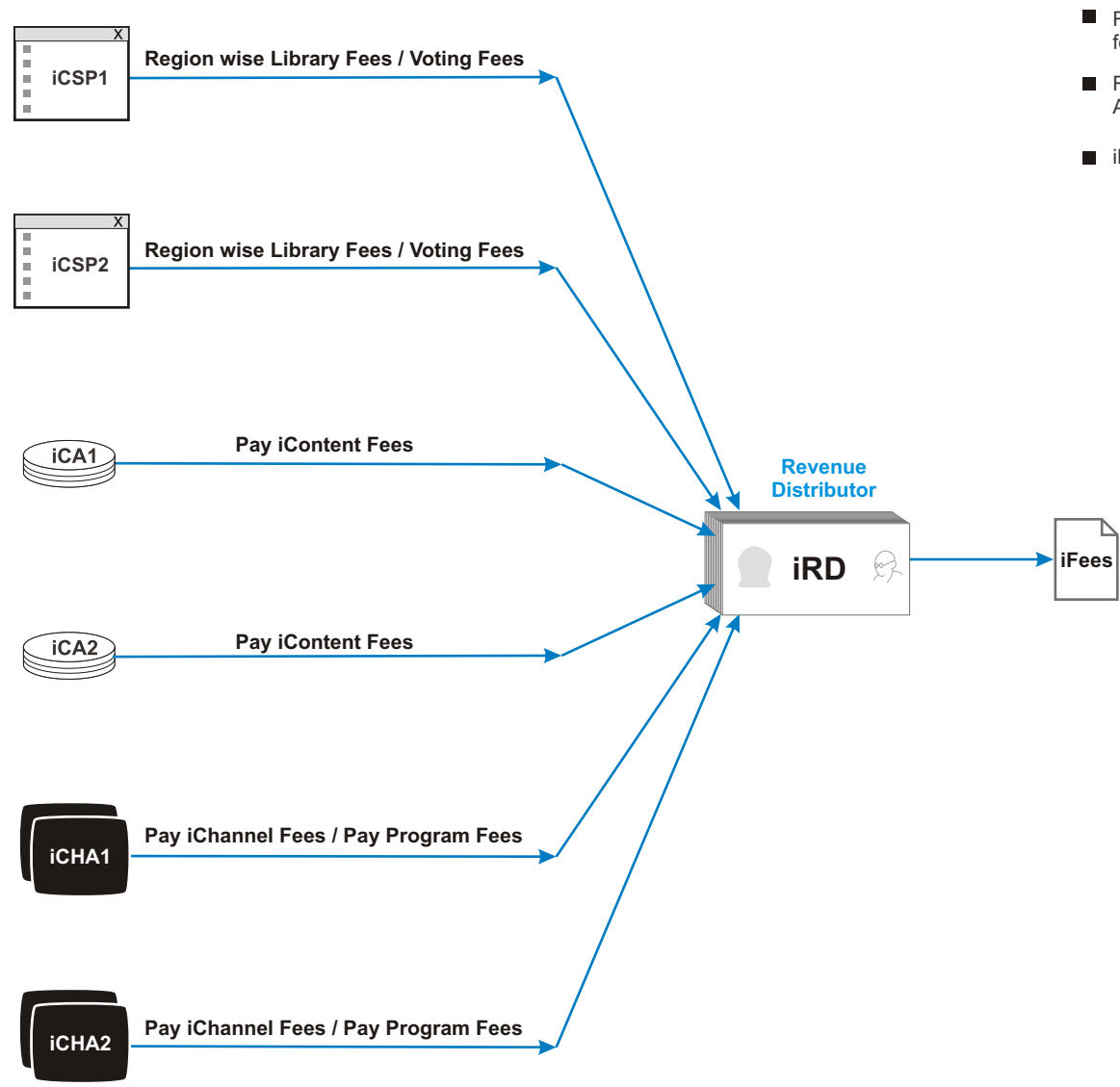


# Figure 2 - Key Distribution by iContent / iChannel Aggregators



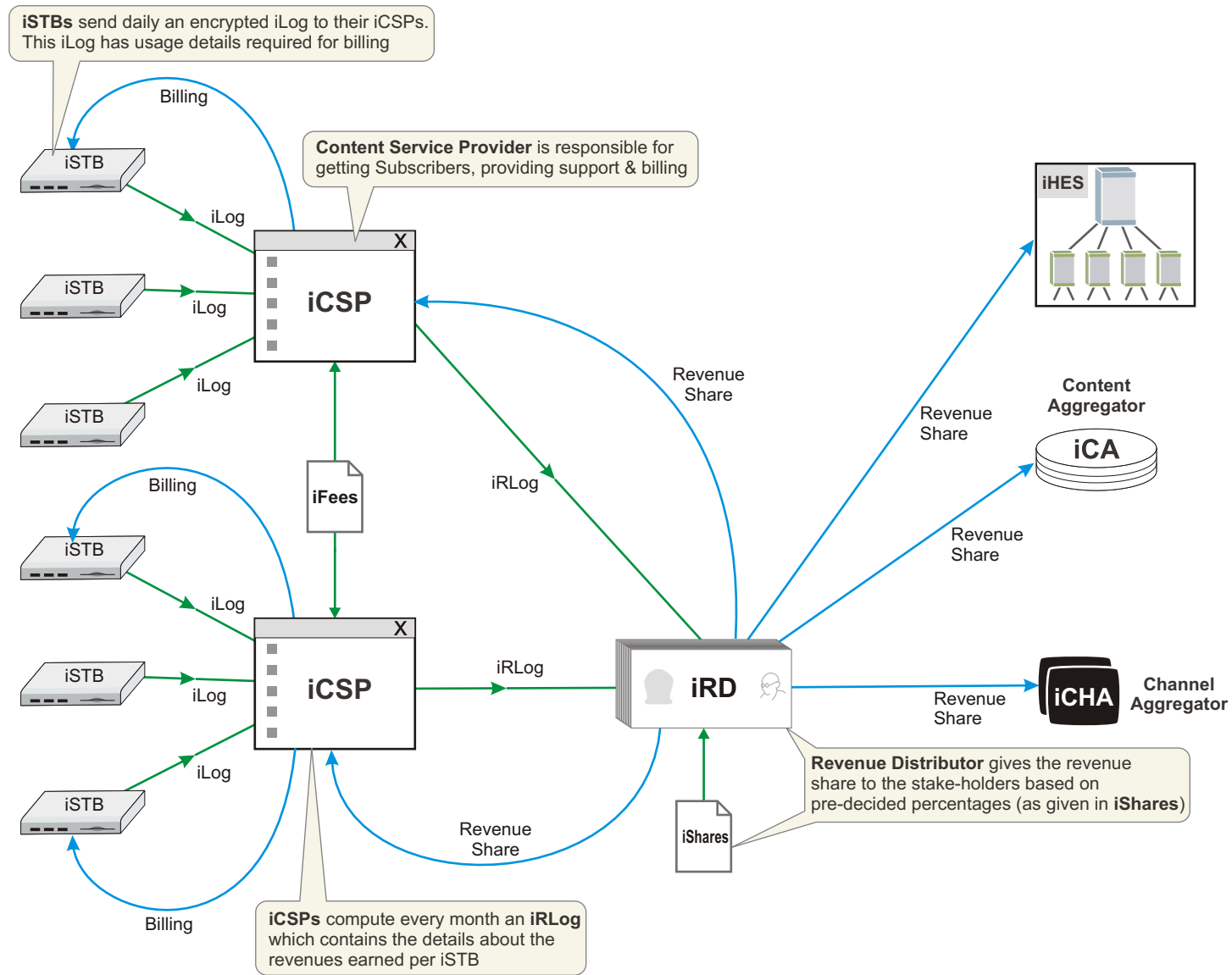
■ iCA and iCHA can have multiple mirror servers for preventing congestion

### Figure 3 - Fees determination by Revenue Distributor



- Revenue Distributor is a bank which has Escrow Account for the iSTB billings collected by Content Service Providers
- Revenue Distributor also has an Escrow Account for Advertisement Fees collected by Content Aggregator
- iRD decides with Eco Partners, Ad rates, TRP rates etc.,

# Figure 4 - Billing & Revenue Distribution



## Figure 5 - Security through Public Keys



iSTB

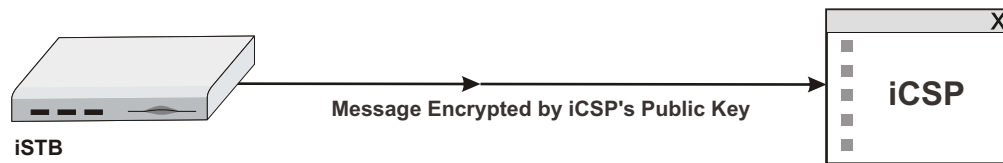
- At manufacturing time, the iSTB generates a pair of Public & Private Keys, out of which it provides only the Public Key for secure storage with an iRD.



iSTB

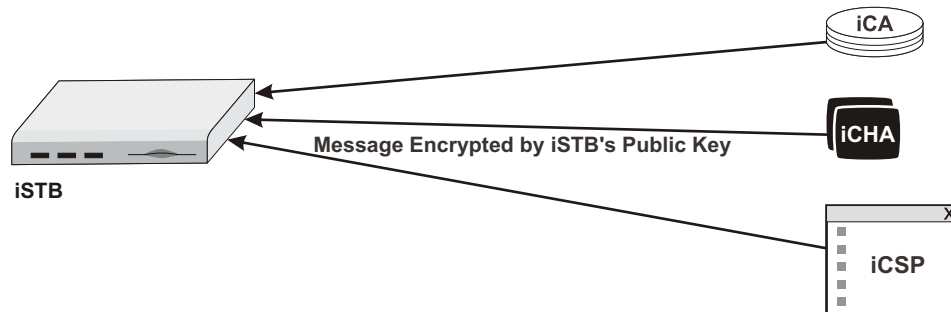
- At the time of Registration iCSP generates a pair of Public & Private Key and sends only the Public Key to the iSTB. It also send a unique iSTB-ID. This info is encrypted with the Public Key of iSTB, to ensure that only iSTB know the iCSP's Public Key.

### When iSTB wants to send a Secure Message

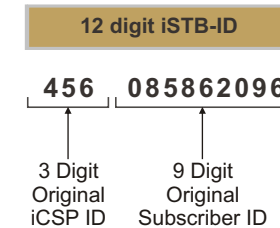


iSTB

### When iCA/iCHA/iCSP wants to send a Secure Message



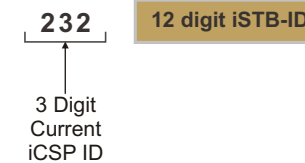
iSTB



- iCSP registers an iSTB by associating its MAC ID with the iSTB-ID provided by iCSP

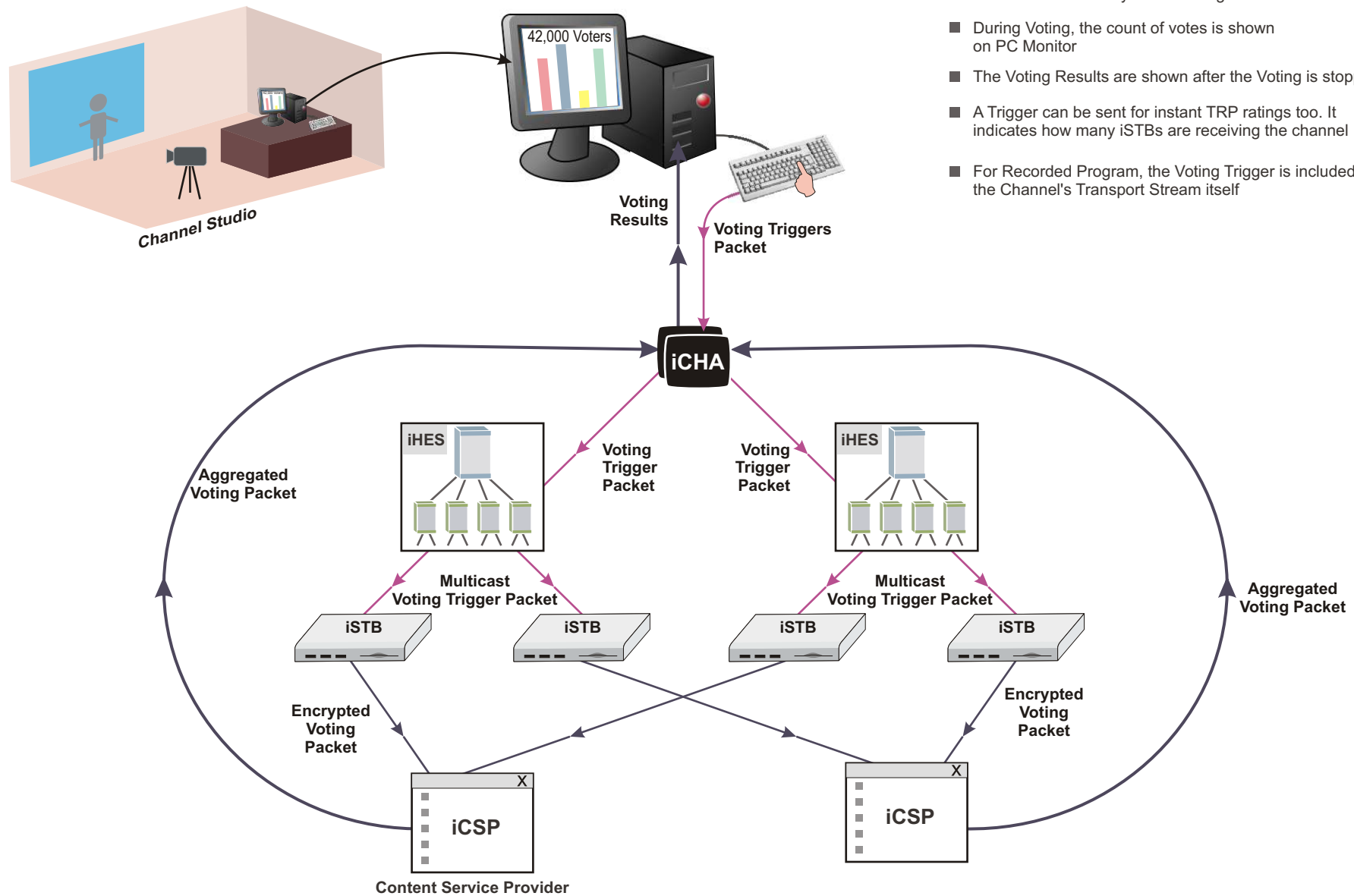
- When registering with another iCSP, the current iCSP ID will be added to make iSTB-FULL-ID

### 15 digit iSTB-FULL-ID



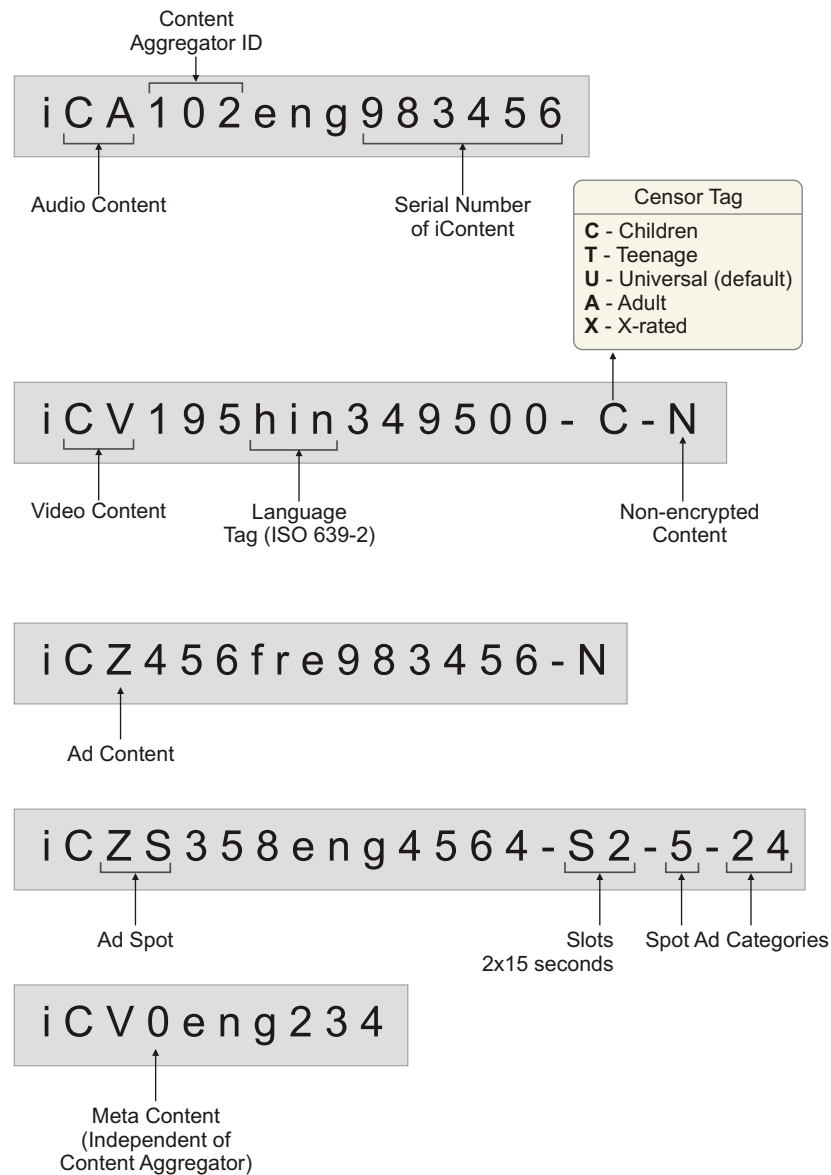
- Number Portability is achieved by sending iSTB-ID, to original iCSP, who then conveys the iSTB-FULL-ID

# Figure 6 - Instant Voting/TRP through iSTBs

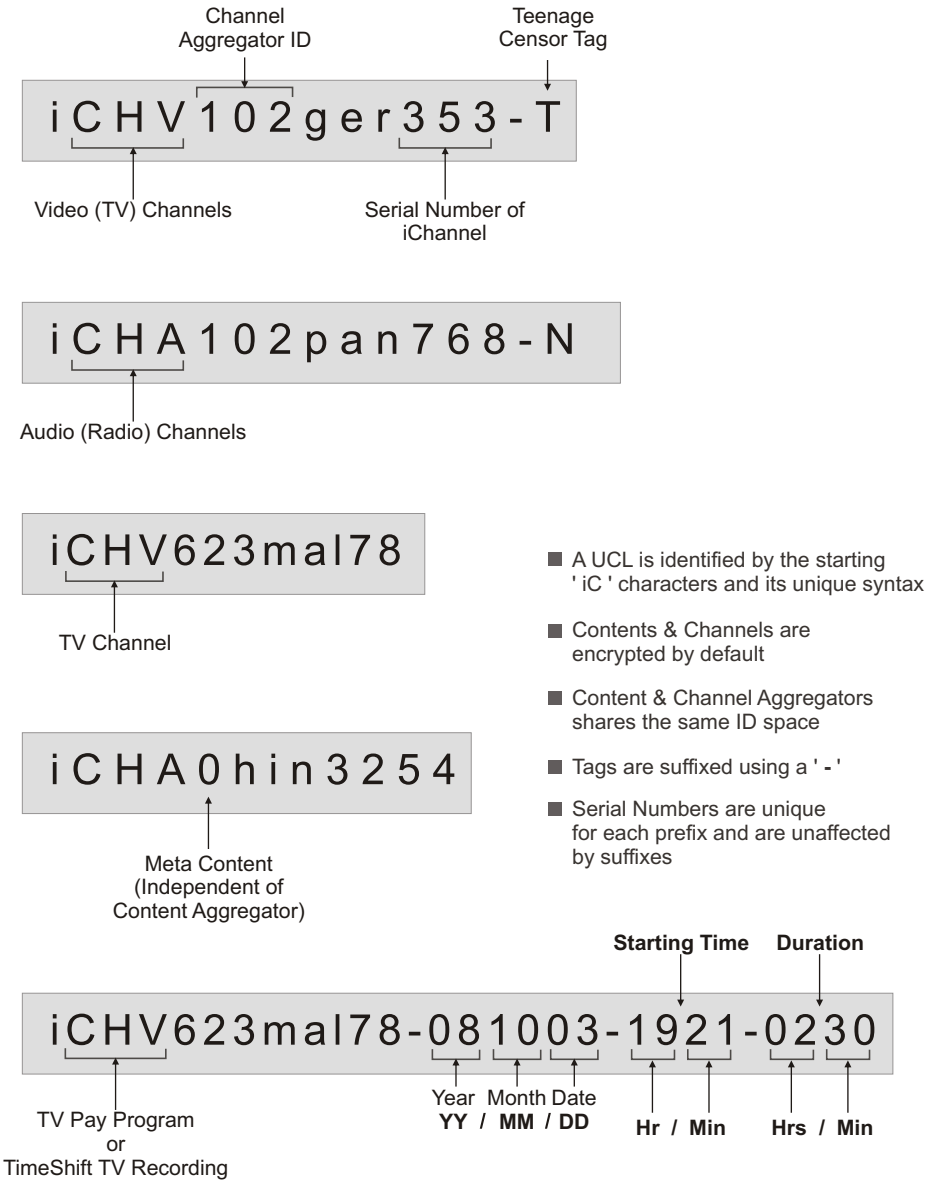


# Figure 7 - Universal Content Locator (UCL)

## UCL for Contents



## UCL for Channels



- A UCL is identified by the starting 'ic' characters and its unique syntax
- Contents & Channels are encrypted by default
- Content & Channel Aggregators shares the same ID space
- Tags are suffixed using a '-'
- Serial Numbers are unique for each prefix and are unaffected by suffixes