

**Future Integrated
Broadband Cable Networks**

Cable Television in Korea



2019. 04. 14.
Tae Kyoon KIM

Cable Television in Korea



Trends of technology

Trends of service market

RoIP (RF signal over IP: J.1106/1107/1108)

Evolution of cable network

- ◆ Directly access to home FTTH or fiber network access point move to maximum closing point almost nearly
- ※ about 28% (2016.08)

Smart common device

- ◆ Smart integrated broadcasting and communication common devices based on fiber
- simplify broadcasting and communication line establish

Terrestrial UHD broadcasting

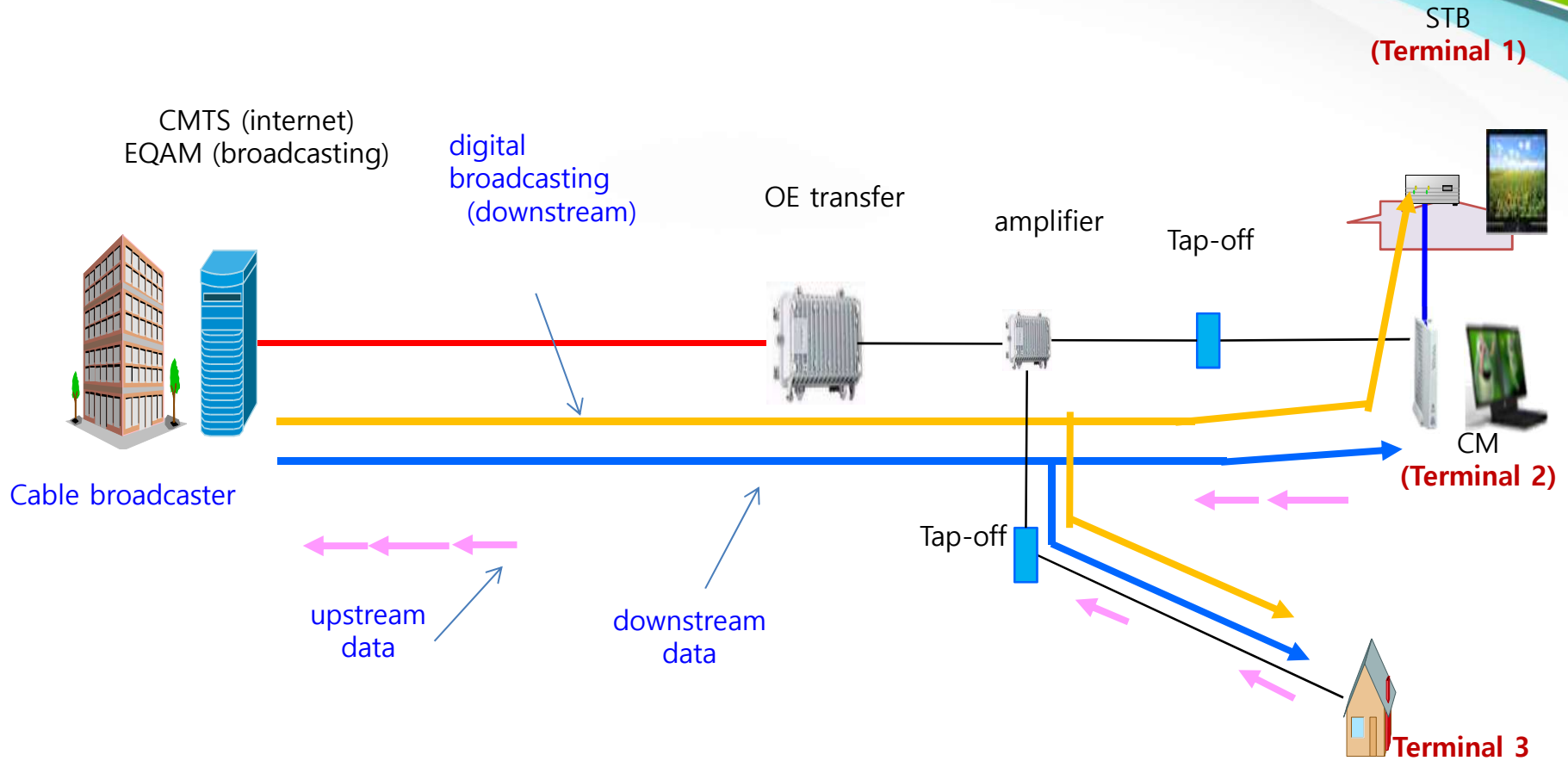
- ◆ Start terrestrial UHD broadcasting
- ◆ Direct rates continuous decrease
- ※ '05, 23.2% --> '15, 5.3%

smart cable integrated transmission

RoIP

- ◆ Without change of existed or planned cable transmission and terminal device
- ◆ RF receiving in subscriber terminal with cost effectively
- ◆ Terrestrial retransmission device

RoIP (RF signal over IP: J.1106/1107/1108)

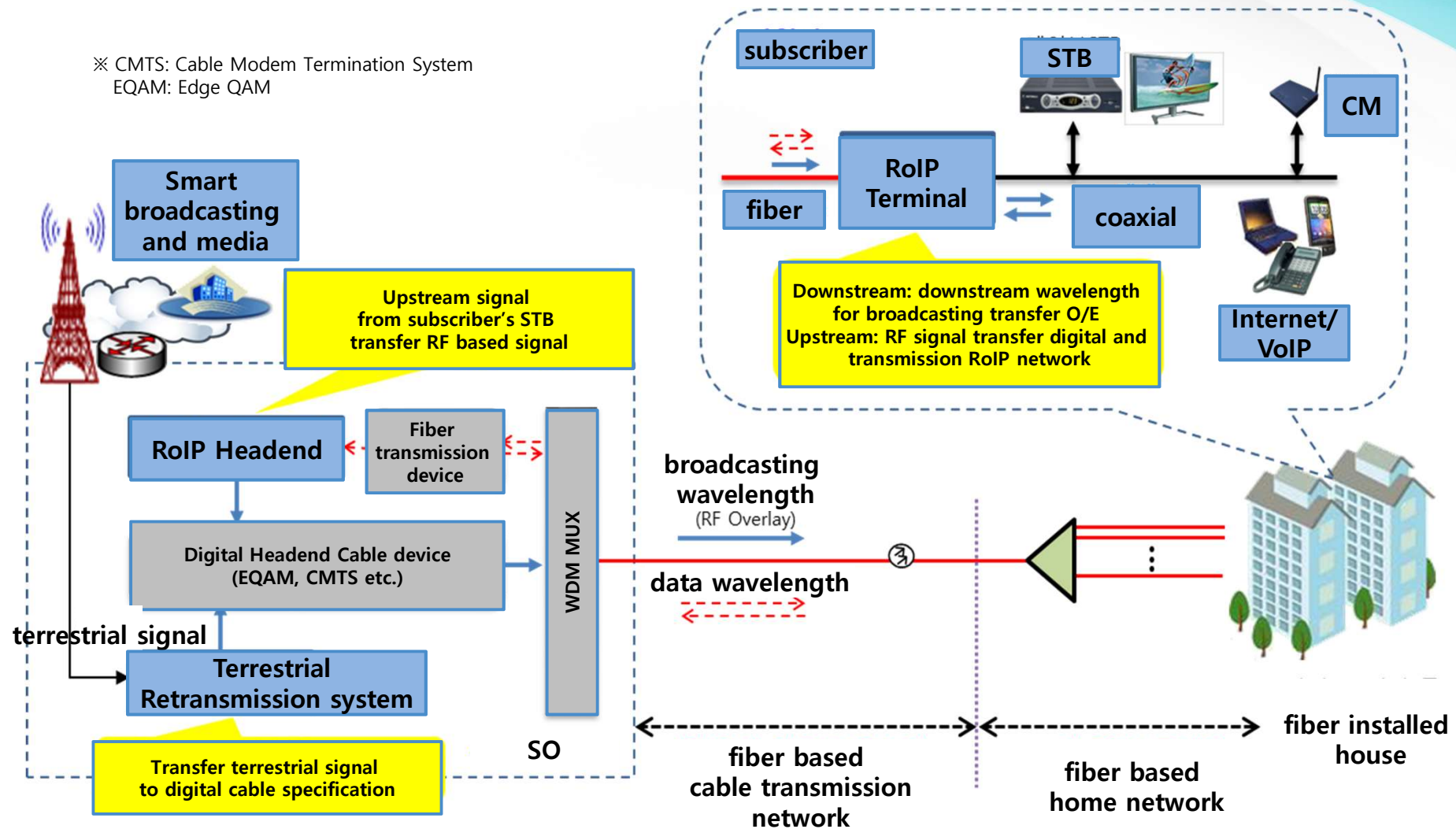


RoIP transmission of cable signal → Synchronized upstream transmission

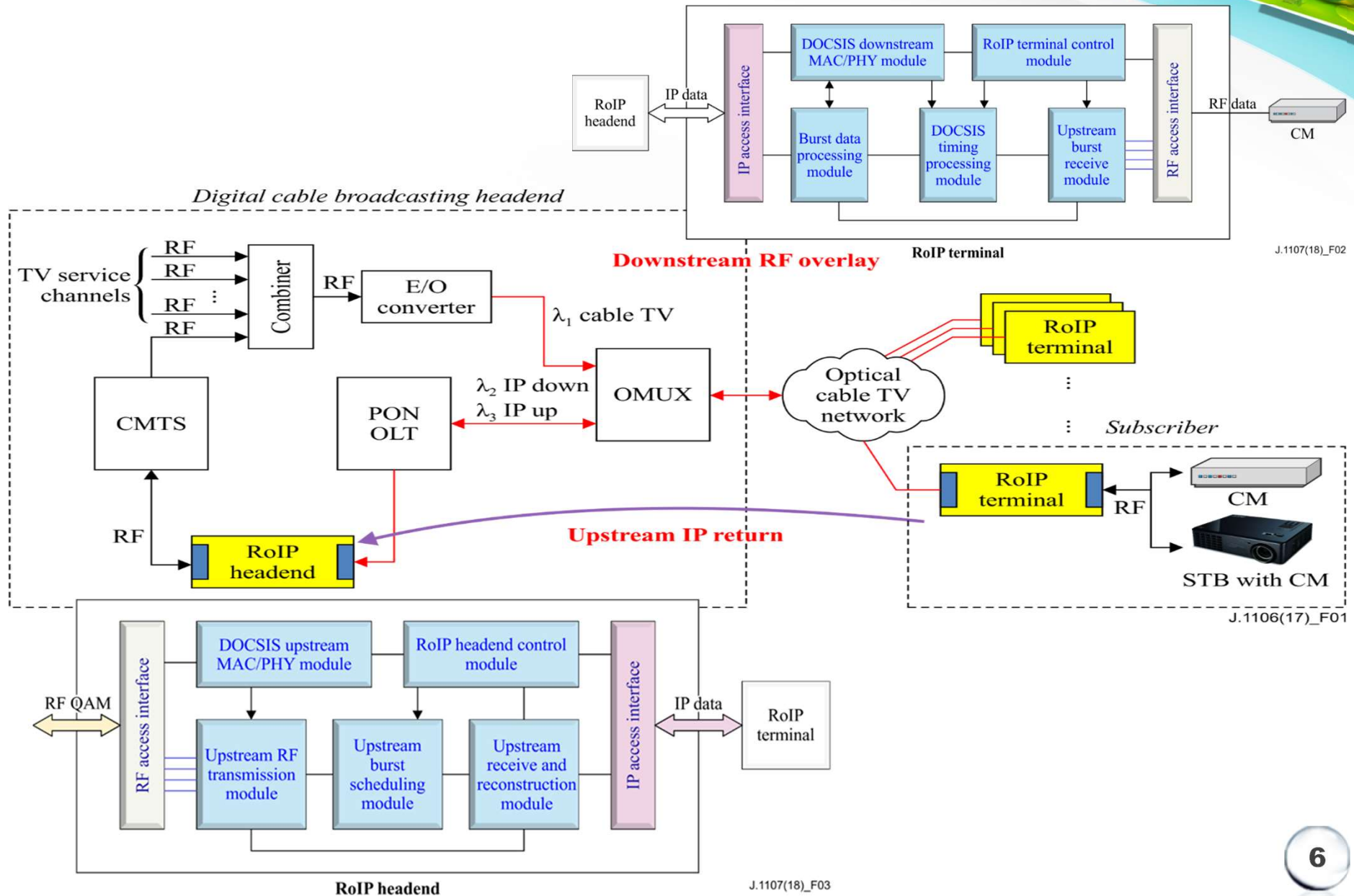
❖ Different delay time of cable terminal makes difficult receiving normal data in CMTS

RoIP (RF signal over IP: J.1106/1107/1108)

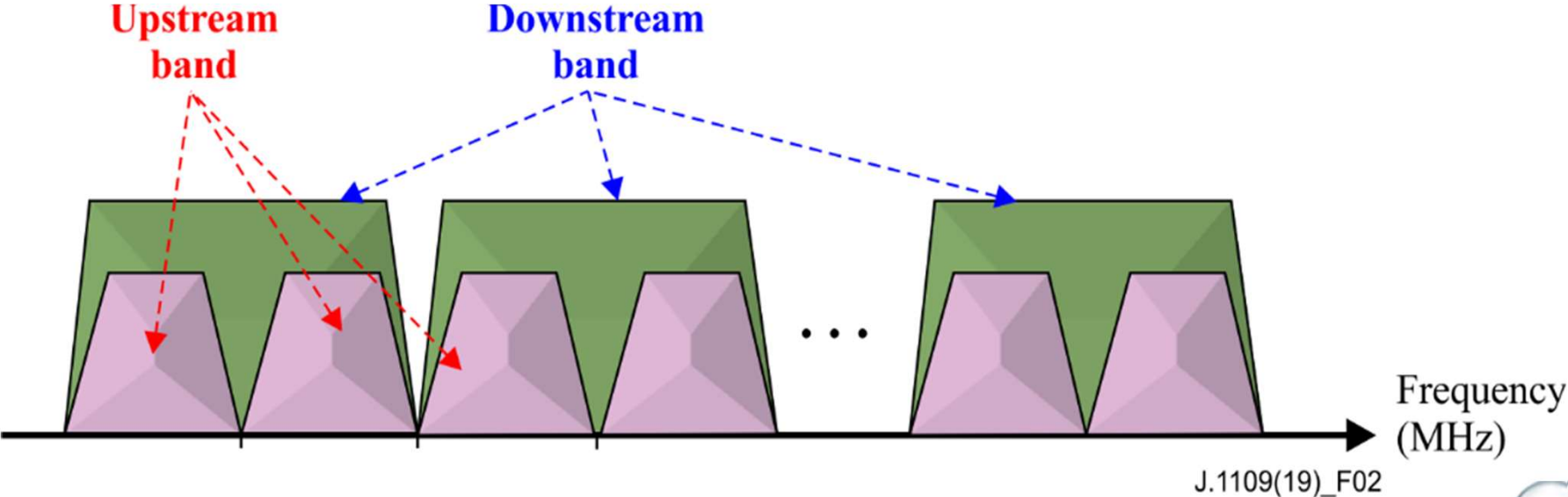
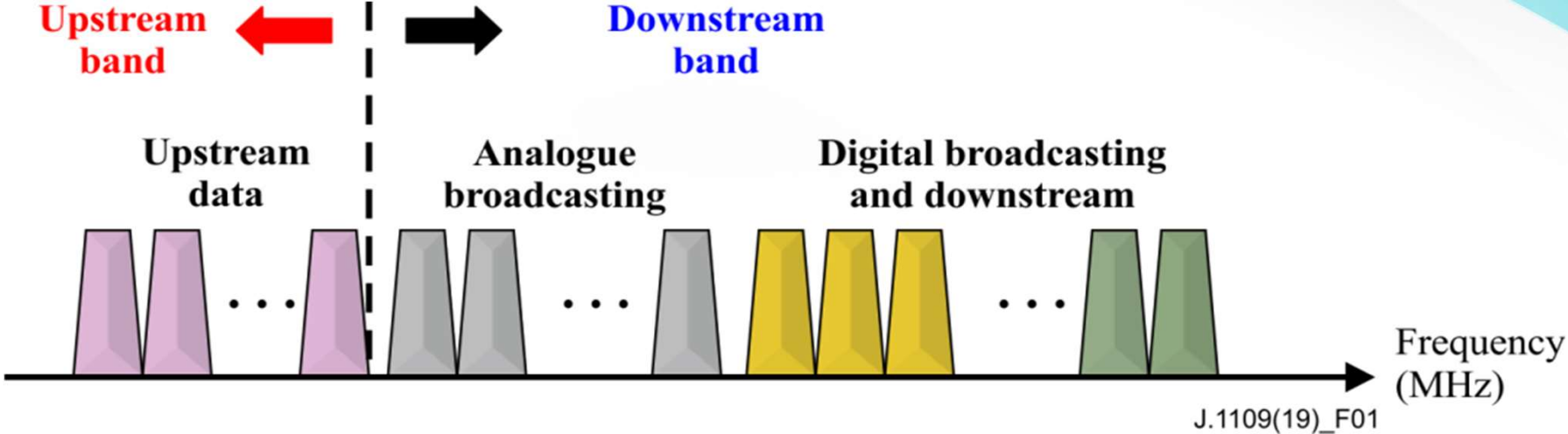
※ CMTS: Cable Modem Termination System
EQAM: Edge QAM



RoIP (RF signal over IP: J.1106/1107/1108)



IFDX(In-band Full-duplex: J.1109)



Cable TV



	2013		2014		2015		2016. 3	
Pay TV	25,399,625	100.0%	27,368,396	100.0%	28,182,171	100.0%	28,630,819	100.0%
Cable TV	14,737,884	58.0%	14,611,459	53.4%	13,732,042	48.7%	13,736,608	48.0%
analogue	8,587,712	35.8%	7,481,306	27.3%	4,678,124	16.6%	4,266,758	14.9%
digital	6,150,172	> 30%	7,130,153	26.1%	9,053,918	32.1%	9,469,850	≈ 7%
satellite	3,066,692	12.4%	3,090,739	11.3%	3,091,938	11.0%	3,104,572	10.8%
IPTV	7,595,050	29.9%	9,666,199	35.3%	11,358,191	40.3%	11,789,639	41.2%
OTS	2,226,411	8.8%	2,338,435	8.5%	2,217,655	7.9%	2,164,215	7.6%

2017

IPTV	45.3%
Cable TV	44.4%

≈ -1%

Cable TV



KT (20.67%)

KT Skylife (10.19%)

SK broadband(13.97%)

LG U+ (11.41%)

CJ Hellovision (13.02%)

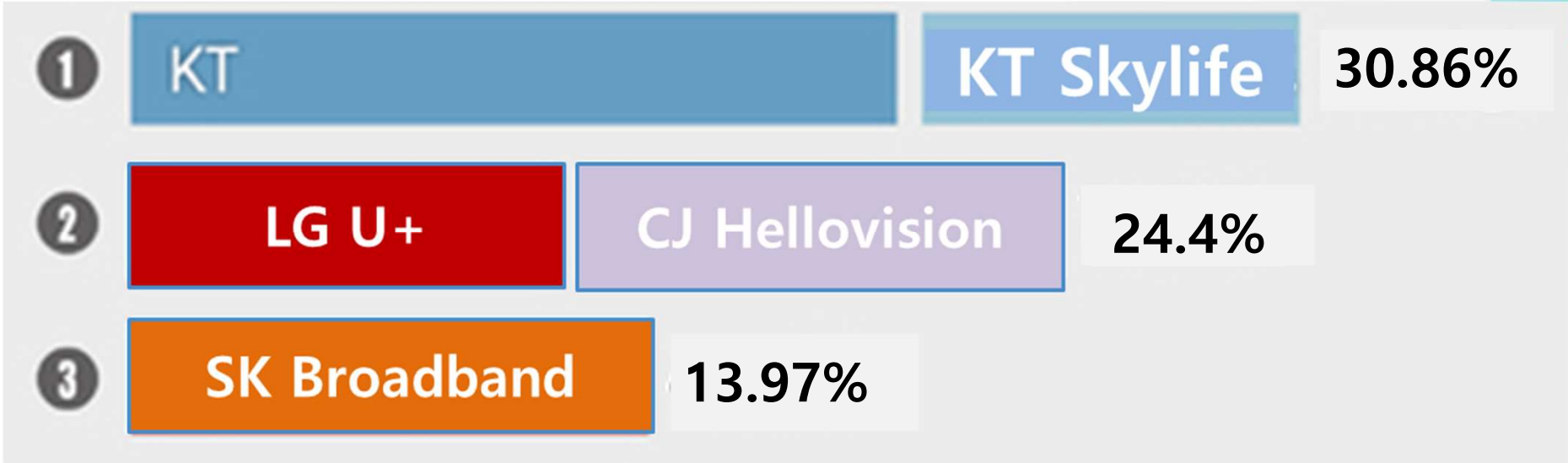
T-broad (9.86%)

Dlive (6.45%)

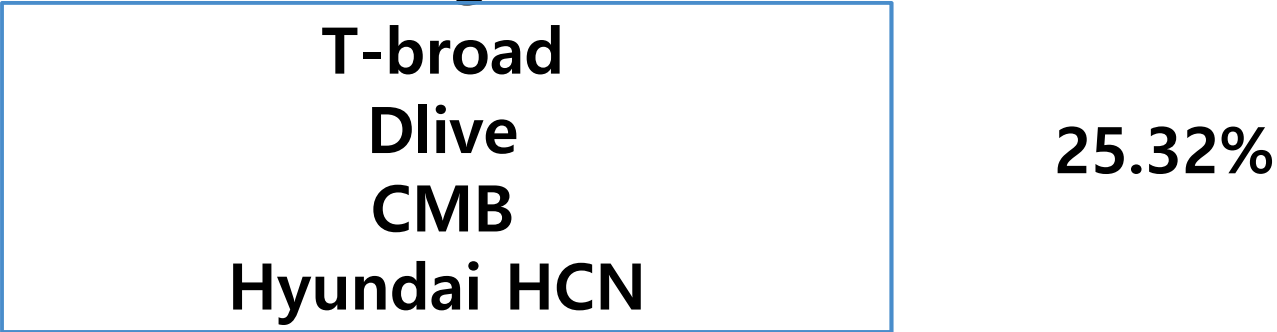
CMB (4.85%)

Hyundai HCN (4.16%)

Cable TV



remaining MSOs





Thank you