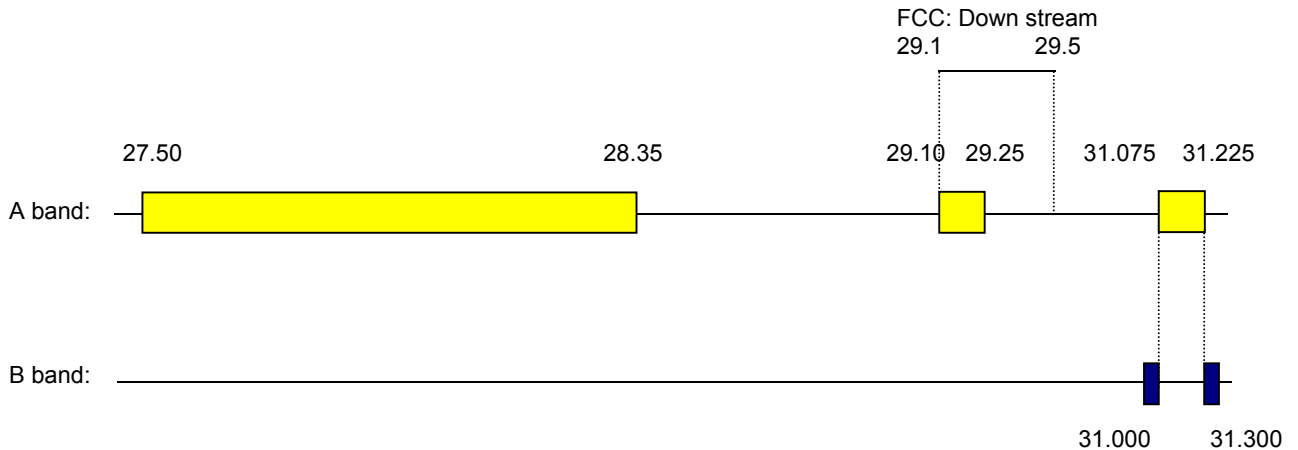


## LMDS Band Plan (Ericsson Proposal)

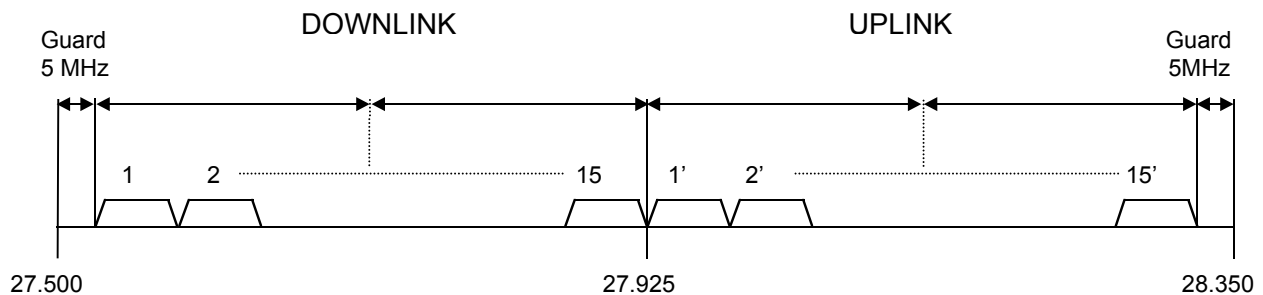
### 1 THE FCC LMDS BAND ALLOCATION



Note: The B band is co-primary with incumbent point-to-point licences.

### 1.1 PROPOSED BAND PLAN

A plan without duplex gap is proposed and channels are assigned from the centre of the band towards the edges. The necessary edge guard bands determine the number of possible channels. As an example, 15 downlink and 15 uplink channels are used in the plan. Channel 15 is to be used for repeater purposes only. See also annex 1. The guard bands will be 5 MHz. If larger guard bands are necessary, due to out of band emissions of neighbouring systems, the band plan will have room for 14 downlink and 14 uplink channels. The guard bands will in this case be  $28 + 5 = 33$  MHz each.



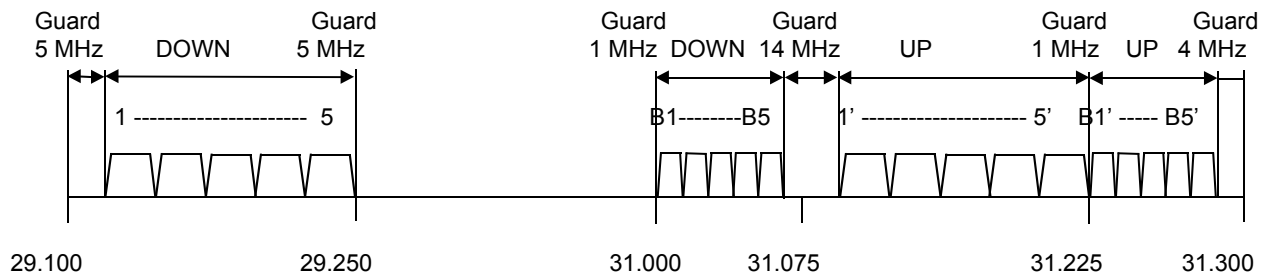
2 THE B BAND, 31.00 – 31.075 / 31.225 - 31.30 GHZ

2.1 CO-EXISTENCE, UPPER A-BAND AND B-BAND FOR CO-LOCATED RADIO NODES

This case may be treated in the same way as Section 1??? above. The lower B band, 31.000 – 31.075 GHz (interferer), is down link using 14 MHz channel separation and the upper A band, 31.075 – 31.225 GHz (victim), constitutes up link, using 28 MHz channel separation.

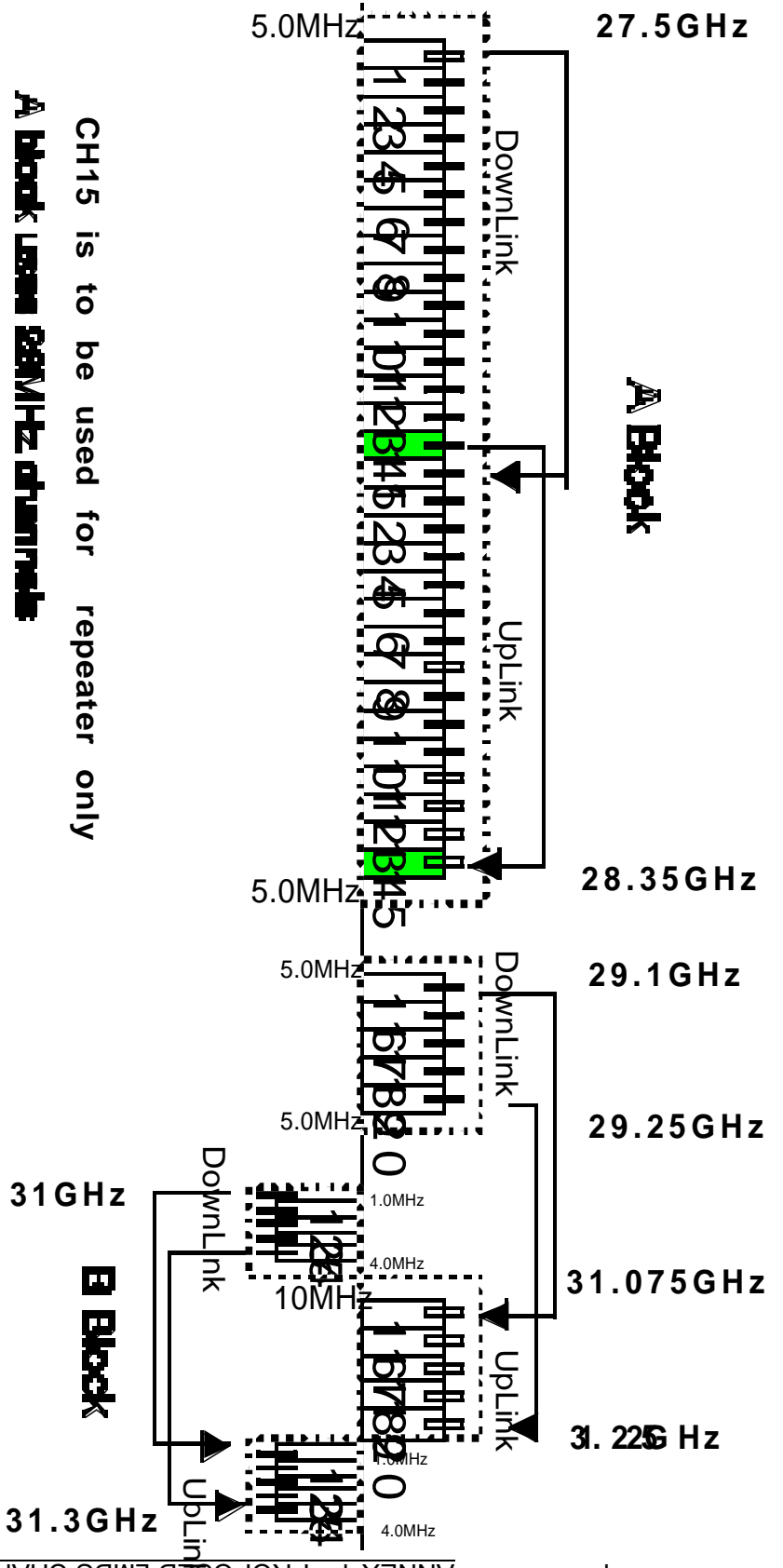
2.2 PROPOSED BAND-PLAN, THE UPPER A BAND AND THE B BAND

The required separation between the B band down link and A band uplink is setting the band-plan. The A band is using 5 channels with 28 MHz separation and the B band 5 channels using 14 MHz channels. The number of channels may in both cases be reduced if larger guard bands are necessary due to agreements regulations or the technical data of the LMDS equipment.



3 CONCLUSION

The coexistence of the A and B band operator in the same area can be achieved with no co-ordination, with an acceptable degradation, if the A and B Radios are co-located on the same radio site using this band plan. Otherwise a careful system planning has to be evaluated on case by case basis.



CH15 is to be used for repeater only

- A Block uses 50MHz channels
- B Block uses 14MHz channels