[   ] Broadcast/Unicast

3GPP2 TSG-C WG3   7   3G
                                    .
              ,   (FFR:Fractional Freqeuncy Reuse),   , VoIP
                          , LDPC   ,
       .   (broadcast)   unicast
            .

Broadcast/Unicast

Unicast   OFDM   broadcast
                            .
     ·   (TDM)
     ·   (FDM)
     ·   (Superposition)
     ·
TDM   broadcast   unicast   . Unicast
hybrid ARQ
                    .   broadcast
                          FDM   .
FDM   broadcast   .
                                    broadcast OFDM   unicast   cyclic
prefix   unicast   broadcast   . Unicast
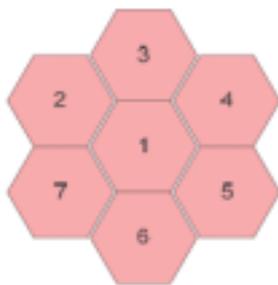   broadcast   unicast   broadcast
                    .

Broadcast
(Same content in
cells within a
broadcast zone)

Unicast
(different content in
different cells)

Supercast
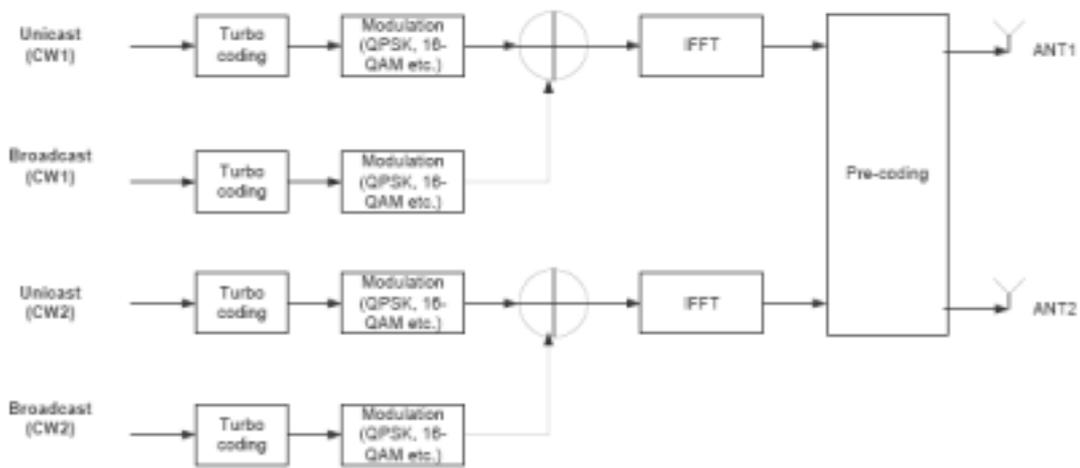(Broadcast/Unicast
Superposition)

<   1> Broadcast/Unicast

Superposition   <   1>   unicast   broadcast
                   ,   broadcast   unicast
   . Broadcast   SFN(Single frequency network)   coverage
       ,   broadcast   . superposition   unicast
                                                . Superposition

    superposition   .

Unicast (CW1) → Turbo coding → Modulation (QPSK, 16-QAM etc.) → ⊕ → IFFT → Pre-coding → ANT1

Broadcast (CW1) → Turbo coding → Modulation (QPSK, 16-QAM etc.) →

Unicast (CW2) → Turbo coding → Modulation (QPSK, 16-QAM etc.) → ⊕ → IFFT → Pre-coding → ANT2

Broadcast (CW2) → Turbo coding → Modulation (QPSK, 16-QAM etc.) →

<   2>

<   2>   unicast   broadcast   .
layer   unicast   broadcast   .   layer   broadcast
                      throughput   broadcast coverage
              .

3GPP2   1xEV-DO   2004   OFDM   Enhanced BCMCS(broadcast and
multicast service)   E-BCMCS
          .   unicast   broadcast
    , 12   3GPP2   . 3GPP2
                         ,
              .

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