3GPP TSG RAN WG1 Meeting No. 7   Tdoc R1-99D22

Ad Hoc 15 email discussions summary and contributions to be treated

Antti Toskala

Ad Hoc 15 chairman (WG1 Chairman)

Email: Antti.Toskala@nokia.com

NOKIA

Common Pilot Discussions

The issue is the secondary common pilot modulation pattern, the following issues has been discussed:

- What is the suitability of the proposed solutions to frequency estimation, preference has been given to sort patterns

- The CPICH symbols being QPSK, the values for the symbols on the Secondary CPICH, It was questioned can they be A and -A (with A= 1+i) or is conjugate of A needed? (Opinions expressed that not needed)

NOKIA

Common Pilot Discussions (2)

The other proposed patterns for 2 antenna TX case: (Support given for these both cases, majority of comments have eventually preferred proposal 3 due simplicity

- Proposal 2.

```
slot #15                            slot #1

----------------------------+----------------------------+-----
  -

 A  A  A  A  A  A  A  A  A  A |A  A  A  A  A  A  A  A  A  A   A

 A -A -A  A  A -A -A  A  A -A |A -A -A  A  A -A -A  A  A -A  -A
```

- Proposal 3.

```
Antenna 1:      A  A  A A  A A  A A  A

Antenna 2:      A -A A -A A -A A -A A -A
```

NOKIA

Common Pilot Changes in 25.211

- **Needed modifications:**
  Conclude the pattern and make a text proposal for 25.211 for secondary CPICH.
  Define the CPICH channelisation code (needs to be fixed)

NOKIA

Dedicated Channel Structures

- **The downlink DPCCH and DPDCH structures with spreading factors 256 and 128 need some additions.**

- **Tdocs on the issue:**
    Tdoc B48 proposes the two pilot bits structure for SF128 (30 ksps channels)
    On the slot structures with EVRC and SF 256, Tdoc c32 makes the recommendation.

NOKIA

Channel interleaver

- **Tdoc C29 proposes enhancement to the channel interleaver, for the working assumption taken in WG1 No. 6**

- **As the submission was done rather late, no duscussions took place until Friday evening on the issue**

NOKIA

Other issues

- **TDD specific changes to 25.231 in Tdoc C22.**

- **(very late submissions no comments received)**

NOKIA

Progress for the next meeting

- **Ad Hoc 15 expected to close in this meeting**

NOKIA

L123 Hooks and Extensions Workshop, WG1 issues

- **Very little WG1 relevant issues**

- **Main topic impacting WG1 work is the handovers. Little impact as existing structures, such compressed mode, expected to be usable.**

- **Handover types discussed:**
  Between DS mode (With IS-41) (both synch and asynch) and MC-mode. Also analog to be considered (DS to Analog)
  (Analog = AMPS)

- **Most work will impact WG2, issues for WG3 as well.**

- **Ref(Draft report of TSG-RAN L123 H&E Workshop**

NOKIA