

Agenda Item: 6.1.3
Source: AT&T Wireless Services, Cingular Wireless
Title: Expanding UMTS1800 Co-existence WI to Cover PCS1900 Band Operation
Document for: Discussion and Decision

1. INTRODUCTION

The study of UMTS operation in the 1800MHz band was started in RAN4 #14 and the simulation work is progressing at this time. Considering the US operators' plan to deploy UMTS in the PCS1900 band, which may be co-located with other technologies such as GSM, IS-136, or IS-95, we propose to expand the current co-existence study to cover UMTS operation in the NA PCS1900 band as an addition to the existing WI.

2. REQUIREMENTS

The work shall be based on the results obtained from the study of UMTS 1800 operation and expanded as follows:

- Ensure backward compatibility with R99 specification's support of UMTS1900. As the R99 specification for UMTS1900 support is currently only partially complete, this need to be clearly stated in the specification.
- Consider interference impacts between UMTS and PCS1900 GSM/IS-136/IS-95, which should cover ACI, IMD and XMD related interference
- Consider the FCC's specifications for spurious emission requirements
- The study shall cover both co-ordinated and non co-ordinated deployment cases between UMTS and PCS1900 GSM/IS-136/IS-95
- An Ad hoc meeting to discuss simulation assumptions/conditions may be needed before next RAN4 meeting (May 21 to 25).
- The work for UMTS PCS 1900 operation shall be included as a Release 4/5 feature and completed by the end of June or the end of September 2001.

3. PROPOSED ACTION

Include the proposed 1900MHz related simulation items into existing UMTS1800 WI and incorporate the simulation results into Release 4/5 requirements/specifications.

REFERENCES

- [1] TSGRAN#9, RP-000448, WI sheet for UMTS 1800, Motorola