Review of 8F/1079r1
ADDITIONAL TECHNICAL DETAILS SUPPORTING IP-OFDMA AS AN IMT-2000 TERRESTRIAL RADIO INTERFACE

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Overview of 8F/1079r1

- The WiMAX Forum® supporting material to complement the IEEE’s submission of IP-OFDMA Radio Transmissions Technology (RTT).

- **Section 1:** Additional information on IP-OFDMA technology based on IEEE 802.16 and a description of the WiMAX Network Reference Model developed by the WiMAX Forum, used here as a framework for evaluating the IP-OFDMA radio interface.
  1. Mobile WiMAX Network Architecture
  2. WiMAX Network Reference Model
  3. Physical Layer Description
  4. MAC Layer Description
Overview of 8F/1079r1 (cont’d)

• **Section 2:** Additional technical material to complement the technology description template in document 8F/1065
  1. Radio Transmission Technology (RTT) according to description template of M.1225
     a. Updates to Section A1.2 (Technical Parameters) of 8F/1065 primarily focusing on detailed parameters for 5 MHz channel bandwidth option, UL/DL peak data rates and ratio split,
     b. The information provided in Sections A1.3 (Expected Performance), A1.4 (Technology Design Constrains) and A1.5 (Terrestrial Link Budget) is new material to complement the technology description template included in document 8F/1065.
  2. Requirements and Objectives Template
     a. In reference to TABLE 1, TABLE 2 and TABLE 3 of the Requirements and Objectives Template in M.1225
  3. Capacity and Coverage
     b. Handover Performance/Latency: Optimized HHO, MS and BS initiated HO, intra and inter-FA cases, link loss
     c. Data Capacity: ITU Ped-B and Veh-A, Mixed user, SIMO/MIMO, 5 and 10 MHz, up to 120 km/hr
     d. Link Budget/Coverage: Speech, Ped-B/Veh-A Long Constrained Delay and Unconstrained Delay best effort
Section 3: Self-evaluation of the proposed IP-OFDMA RTT, as required by the update process of Recommendation ITU-R M.1457 described in Circular Letter 8/LCCE/95.