

EXHIBIT 3: FCC REQUIRED INFORMATION (PART 2.1033)

The following information is presented in the content and format requested by the FCC:

Section 2.911 (d) Qualification Of Engineers

Section 2.911 (d): Technical test data shall be signed by the person who performs or supervises the tests. The person signing the test data shall attest to the accuracy of such data. The Commission may require such person to submit a statement showing that he is qualified to make or supervise the required measurements.

Michael P. Farina is a Member of Technical Staff at Alcatel-Lucent USA, Inc., Whippany, NJ, formerly AT&T Bell Laboratories, with 49 years of Professional Experience in Research and Development. He holds a BS in Physics from Upsala College and an MSEE from New Jersey Institute of Technology. During the past 17 years, his expertise was focused on RF Engineering and Regulatory Agency EMC compliance and certification, covering Analog, TDM, CDMA and UMTS technologies. He has submitted numerous Applications for Certification filings to the FCC covering many product variations and evolutions in each of the four technologies. Currently, he is the Lead Engineer for filing UMTS Wireless Base Station products with the FCC.

Rudolf J. Pillmeier
Technical Manager
FCC/EMC Compliance Test Group
Whippany, New Jersey

Section 2.911 (e)(g) Certification of Technical Test Data

Section 2.911 (e) The signatures of the applicant and the person certifying the test data shall be made personally by those persons on the original application; copies of such document may be conformed. Signatures and certifications need not be made under oath.

Section 2.911 (g) Signed, as used in this section, means an original handwritten signature; however, the Office of Engineering and Technology may allow signature by any symbol executed or adopted by the applicant with the intent that such symbol be a signature, including symbols formed by computer-generated electronic impulses.

I hereby certify that the technical test data are the results of tests either performed or supervised by me.

Michael P. Farina
Member of Technical Staff
FCC/EMC Compliance Test Group
Whippany, New Jersey

Section 2.1033 (c)(1):

The full name and mailing address of the manufacturer of the device and the applicant for certification.

**Alcatel-Lucent USA, Inc.
600-700 Mountain Ave
Murray Hill, NJ 07974**

Section 2.1033(c)(2): FCC Identifier **AS5ONEBTS-11**

Section 2.1033(c)(4):
Type or types of emission: **4M10F9W**

Section 2.1033(c)(5): Frequency range **Transmit: 869–894 MHz**

Section 2.1033(c)(6):

Range of operating power values or specific operating power levels, and description of any means provided for variation of operating power.

Alcatel-Lucent's wireless UMTS **850 MHz Macrocell** base station transceiver system, is the subject of this application for Class II Permissive Change authorization by the Federal Communications Commission under FCC ID: AS5ONEBTS-11. This Universal Mobile Telecommunications System (UMTS) is designed to operate in the North America Region (NAR) Cellular Frequency Spectrum 869-894 MHz, with bandwidth of 25 MHz. The MCR850 transceiver, incorporated in the +24 Vdc Macrocell, can be software configured for:

1. Single carrier at 40W (+46.0 dBm) power for 3S1C operation.
2. Two carriers at 40W (+46.0 dBm) per carrier, providing 80W (+49.0 dBm) total composite power for 3S2C operation.

The RF power rating is based on the 3-second average, employing the Aggregate Overload Control (AOC) algorithm. Enhanced Digital Pre-Distortion (EDPD) and Closed Loop Gain Control (CLGC) are features that are enabled for each carrier. The carrier power level and frequency are remotely controlled by software. A single UMTS carrier has a 5 MHz bandwidth, with an emission designator at 4M10F9W, based on measurement of the Necessary Bandwidth. The UMTS product is designed for compliance with, and as a guideline, the ETSI 3GPP TS 25.141 Technical Specification Standard. TS 25.141 test modulation (TM) capability demonstrated includes 1) TM1-64 with up to 68 active channels, consisting of 64 voice + 4 control, and 2) TM5-44 with up to 44 active channels, which include 8 High Speed Downlink Packet Access (HSDPA) channels.

This 850 MHz Macrocell system complies both with the Federal Communication Commission (FCC) Rules and Regulations (47 CFR Part 22), and with the European Telecommunications Standards Institute (ETSI) 3rd Generation Partnership Project (3GPP) Technical Specifications TS 25.104 and TS 25.141.

The maximum rated output power at the antenna terminal is 80 Watts (+49.0 dBm), 3-second average, per 5 MHz carrier emission bandwidth, covering two 40W (+46.0 dBm) carriers. Power adjustment is software controlled, using baseband digital scaling to set and adjust voltage variable attenuators in the transceiver. A full discussion of the power control and adjustment is contained in the documents requested to be held confidential.

EXHIBIT 3: FCC REQUIRED INFORMATION (PART 2.1033) - continued

Section 2.1033(c)(7):

Maximum power rating as defined in the applicable part (s) of the rules.

The maximum power rating of Alcatel-Lucent’s wireless UMTS **Macrocell** base station transceiver system at the transmit antenna terminal, is 80 Watts (+49.0 dBm), 3-second average, employing the Aggregate Overload Control (AOC) algorithm. This 80W power is the total composite power for 2 carriers at 40W per carrier.

Section 2.1033 (c)(8):

The dc voltages applied to and the dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.

The dc voltage applied to the UMTS Flexent™ OneBTS™ 850 MHz wireless base station equipment frame is nominally +24 Vdc; the equipment is rated to operate over the range +19-30 Vdc with a typical setting of +26.5 Vdc and a maximum input current of 75 Adc.

The nominal dc voltage and range of dc currents input to a single UMTS 850 MHz Power Amplifier, C2PAM, of the UMTS-CDMA Transceiver System (850) is summarized as follows:

Single C2PAM Power Amplifier

Input Voltage	Maximum Input Current: No RF Power	Maximum Input Current: At Rated RF Power
+19.0 Vdc	11.14 Adc	27.1 Adc
+30.0 Vdc	7.11 Adc	16.89 Adc

Section 2.1033 (c)(9):

Tune-up procedure over the power range, or at specific operating power levels.

The Alcatel-Lucent UMTS +24Vdc 850 MHz Macrocell wireless base station, UMTS-CDMA Transceiver System (850), subject of this request for Class II certification under FCC ID: AS5ONEBTS-11, can not be “tuned-up” by the user. There are no user tune-up features. All tuning is performed by the manufacturer during, and as part of, the manufacturing process.

Section 2.1033 (c)(10)

A description of all circuitry and devices for determining and stabilizing frequency.

The Lucent UMTS/W-CDMA 850 MHz Macrocell wireless base station, incorporating the UMTS-CDMA Transceiver System (850), which utilizes a 5 MHz carrier emission bandwidth, is designed to operate in the cellular frequency spectrum 869-894 MHz. Frequency stability of the carrier frequency is achieved with an accuracy better than the rated ± 0.05 ppm by the 15 MHz reference frequency generated by a stable Crystal Oscillator Module (OMA) plus proprietary phase locked loop (PLL) circuitry.

EXHIBIT 3: FCC REQUIRED INFORMATION (PART 2.1033) - continued**Section 2.1033 (c)(10): Description of circuitry and devices for suppression of spurious radiation.**

Spurious emissions radiated from the UMTS Flexent™ OneBTS™ 850 MHz Macrocell wireless base station equipment frame are suppressed by implementing sound Electromagnetic Compatibility (EMC) design practices extending from the circuit board level to the system level: 1) grounded RF shielding on coaxial cables, 2) grounded RF shielding “cans” mounted on the circuit packs, 3) effective grounding throughout, and 4) effective transmit and receive bandpass filters for the cellular frequency band 869-894 MHz. The Tx filter, incorporated in this UMTS-CDMA Transceiver System (850), is a 25 MHz wideband, low loss, Dual Duplex (DDpx) design covering the full 869-894 MHz spectrum.

Section 2.1033 (c)(10): Description of Circuitry and Devices for Limiting Modulation, and for Limiting Power.

The Lucent UMTS Macrocell 850 MHz UMTS-CDMA Multi-Carrier CDMA Radio (MCR850), BNJ65, authorized under FCC ID: AS5ONEBTS-11, is a 5 MHz carrier emission bandwidth UMTS (W-CDMA) base station transceiver designed to operate in the Cellular Frequency Band 869-894 MHz. It is the transceiver which comprises this UMTS-CDMA Transceiver System (850), that is the subject of this application for certification. Modulation limiting is described in the documents that must be held as confidential. This confidential document is the same document that was submitted to and is currently on file with the Federal Communications Commission for the initial equipment authorization grant for AS5ONEBTS-11.

Power control of the RF output from the MCR850 transceiver is accomplished by software which controls a microprocessor that sends digital signals to a 18 dB voltage variable attenuator, which is used for output power adjustment. The transmitter can be disabled through firmware which sets the RF attenuator to maximum loss and thus disables the final RF amplifier stage. A complete description is provided in the exhibits that are required to be held as confidential. This confidential document is the same document that was submitted to and is currently on file with the Federal Communications Commission (FCC) for the initial equipment authorization grant for AS5ONEBTS-11.

Section 2.1033 (c)(13): Description of the modulation system.

The Lucent UMTS Macrocell 850 MHz UMTS-CDMA Multi-Carrier CDMA Radio (MCR850), BNJ65, previously authorized under FCC ID: AS5ONEBTS-11, is a 5 MHz carrier emission bandwidth UMTS (W-CDMA) base station transceiver designed to operate in the Cellular Frequency Band 869-894 MHz. It is the transceiver which comprises this UMTS-CDMA Transceiver System (850), that is the subject of this application for Class II Permissive Change certification.

This 5 MHz carrier emission bandwidth UMTS (W-CDMA) base station transceiver is designed for QPSK modulation, with an emission designator 4M10F9W. The modulation process is fully described in the documents that must be held as confidential. This confidential document is the same document that was submitted to and is currently on file with the Federal Communications Commission (FCC) for the initial equipment authorization grant for AS5ONEBTS-11.

The MCR850 transceiver can operate either with only Voice and 68 active channels or with Voice + HSDPA to provide 44 active channels. Note: HSDPA = High Speed Downlink Packet Access.