

EXHIBIT 3: FCC REQUIRED INFORMATION (PART 2.1033)

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

Section 2.1033 (c)(1):

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

Manufacturer: **Lucent Technologies**
6200 E Broad St, Columbus, OH 43213-1569 U S

Applicant: **Lucent Technologies**
101 Crawfords Corner Road, Holmdel, NJ 07733
Attention: Theresa I. Deaver

Section 2.1033(c)(2): FCC Identifier AS5ONEBTS-08

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

Section 2.1033(c)(5): Frequency range Transmit: 864–869 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.

Lucent Technologies' Cellular Frequency UMTS-CDMA "Multi-Carrier CDMA Radio" 850 MHz (MCR850) Transceiver, Model BNJ65, which is incorporated in the UMTS 850 MHz Flexent@OneBTS™ "External Multi-Carrier Power Amplifier" (MCPA) wireless base station configuration, is the subject of this application for Class II Permissive Change Authorization by the Federal Communications Commission under FCC ID: AS5ONEBTS-08. The MCR850 (BNJ65) was previously issued a Grant of Equipment Authorization under AS5ONEBTS-08 for CDMA operation. The purpose of this application is to add the UMTS emission designator for UMTS, 4M10F9W, to the initial authorization.

The principle RF transmit path components are: (1) Crystal Reference Oscillator Module (OMA) at 15 MHz, and (2) UMTS-CDMA "Multi-Carrier CDMA Radio" (MCR850), Model BNJ65, which was previously authorized by the Federal Communications Commission under FCC ID: AS5ONEBTS-08. The 60 MHz bandwidth Dual Duplex (DDpx) transmit filters, covering the Cellular Frequency spectrum, installed in the MCPA equipment frame are exclusively utilized for receive only. The MCR850 can operate for both multi-carrier CDMA and single carrier UMTS technologies; the subject of this request for certification is operation in the "Universal Mobile Telecommunications System" (UMTS) for a single 5 MHz emission bandwidth UMTS carrier (4M10F9W). The UMTS feature was developed for the North America Region (NAR) deployment, and is also known as Wideband CDMA (W-CDMA). The transceiver can be converted from CDMA to UMTS (or UMTS to CDMA) by software alone, which can be performed at the installation site. There are no physical, hardware or circuit changes to the transceiver. The subject of this application is UMTS.

The MCPA configuration is designed as 3S1C, without transmit power amplifiers and filters. The RF output from the MCR850, BNJ65, transceiver is terminated at the frame top hatch plate, which will allow the customer to connect the radio to their existing power amplifiers and transmit filters, external to the MCPA equipment frame. The maximum rated output power at the MCPA transmit terminal of 3.3 Milliwatts (+5.2 dBm), 3-second average, per 5 MHz emission bandwidth carrier. Power adjustment is software controlled, using a digital signal to set and adjust voltage variable attenuators in the MCR850 transceiver. The range of attenuation control is 0 - 18 dB maximum, with a resolution of 0.05 dB, over the spectrum 869-894 MHz.

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 the Lucent UMTS Flexent™ OneBTS™ MCPA wireless base station, incorporating the Cellular Frequency UMTS-CDMA MCR850 transceiver, BNJ65, has a maximum rated output power at the RF transmit terminal of 3.3 Milliwatts (+5.2 dBm), 3-second average, corresponding to a single 5 MHz emission bandwidth UMTS carrier with QPSK modulation. The same power level is also achieved with “High Speed Downlink Packet Access” (HSDPA) modulation.

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™ MCPA 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. The measured dc voltage and dc currents input to the MCPA, i.e., radios alone and without power amplifiers, is summarized as follows:

3S1C MCPA Equipment Frame

Carrier State	DC Power Terminal No. 1	DC Power Terminal No. 2	DC Power Terminal No. 3
Carriers Toggled Off	27.08 Vdc 0.4 –0.8 Adc	27.14 Vdc 0.3 – 0.6 Adc	26.85 Vdc 17.0 – 17.3 Adc
Carriers Toggled On	27.05 Vdc 0.2 Adc	27.11 Vdc 0.3 Adc	26.79 Vdc 18.7 Adc

Section 2.1033 (c)(8):

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

The Lucent UMTS Flexent™ OneBTS™ MCPA, wireless base station, incorporating the Cellular Frequency UMTS-CDMA MCR850 Transceiver (BNJ65) which is the subject of this request for Class II Permissive Change Authorization under FCC ID: AS5ONEBTS-08, 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 Flexent™ OneBTS™ MCPA wireless base station, incorporating the UMTS-CDMA MCR850 Transceiver BNJ65, which utilizes a 5 MHz carrier emission bandwidth, is designed to operate in the Cellular Frequency spectrum. 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™ MCPA 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 EMI gaskets on the cabinet door.

The MCPA equipment frame does not incorporate transmit bandpass filters for the Cellular Frequency Band 869-894 MHz. These filters will be supplied by the customer as part of their existing site installation.

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

The Lucent UMTS Flexent™ OneBTS™ MCPA, Cellular Frequency UMTS-CDMA “Multi-Carrier CDMA Radio” (MCR850), BNJ65, previously authorized under FCC ID: AS5ONEBTS-08, is a 5 MHz carrier emission bandwidth UMTS (W-CDMA) base station transceiver designed to operate in the Cellular Frequency Band 869-894 MHz. This MCR850 transceiver is the subject of this application for Class II Permissive Change Authorization, under FCC ID: AS5ONEBTS-08. 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-08.

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-08.

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

The Lucent UMTS Flexent™ OneBTS™ MCPA Cellular Frequency UMTS-CDMA Multi-Carrier CDMA Radio (MCR850), BNJ65, previously authorized under FCC ID: AS5ONEBTS-08, is a 5 MHz carrier emission bandwidth UMTS (W-CDMA) base station transceiver designed to operate in the Cellular Frequency Band 869-894 MHz. This transceiver, incorporated in the MCPA, is the subject of this application for Class II Permissive Change Authorization, under FCC ID: AS5ONEBTS-08.

This 5 MHz carrier emission bandwidth UMTS (W-CDMA) base station transceiver is designed for both 1) standard UMTS QPSK Voice modulation with 20 active channels, and 2) Voice + 4 active channels of High Speed Downlink Packet Access (HSDPA), which provides QPSK + 16 QAM modulation and a total of 24 active channels. Both have the 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-08.