



**The Federal Communications Commission's Technological Advisory Council
Hereby Acknowledges the Technical and Humanitarian Contributions of**

Vanu Bose, Ph.D.

Which have included:

- **The First Software Defined Radio Certified for Use by the FCC**
- **Extending the Benefits of Broadband Technology to Underserved Areas**
- **Guidance to the Technological Advisory Council**
- **Emergency Restoration Efforts for the Commonwealth of Puerto Rico**

FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

GRANT OF EQUIPMENT AUTHORIZATION
Certification

Vanu, Inc.
81 Hartwell Ave Suite 200
Lexington, MA 02421
United States

Date of Grant: 03/27/2007
Application Dated: 02/14/2007

Attention: Andrew Beard, Chief Operations Officer

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: RJK01PW (C0010)

Name of Grantee: Vanu, Inc.

Equipment Class: Licensed Non-Broadcast Station Transmitter
Notes: GSM Software Base Station

Modular Type:	Does not apply	FCC Rule Parts	Frequency Range (MHz)	Output Watts	Frequency Tolerance	Emission Designator
		22H	869.2 - 893.8	0.001	0.01 P0	300KGXW

The antenna(s) used for this transmitter must be fixed-mounted on outdoor permanent structures. RF exposure compliance is addressed at the time of licensing, as required by the responsible FCC Bureau(s), including antenna co-location requirements of § 1.1307(b) (3).

This device complies with the Software Defined Radio (SDR) requirements of Report and Order FCC 05-57.

Mail To:

EA981762

FCC NEWS

Federal Communications Commission
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Washington, D.C. 20554

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This is an unofficial announcement of Commission action. Release of the full text of a Commission order constitutes official action.
See 47 CFR, Part 1.64, 1.64-200 (D.C. Circ. 1974).

FOR IMMEDIATE RELEASE **NEWS MEDIA CONTACT**
November 19, 2004 **Bruce Romano (202) 418-2124**

FCC APPROVES FIRST SOFTWARE DEFINED RADIO

Washington, D.C. – The FCC announced today it has approved, for the first time, use of a software defined radio device in the United States. This new class of equipment allows users to share limited airspace, increases flexibility and reduces interference concerns.

"This is the first step in what may prove to be a radio technology revolution," said FCC Chairman Michael K. Powell. "The industry's pioneering work to find more creative and efficient use of our airwaves will continue to bring benefits to consumers."

The Laboratory Division of the Commission's Office of Engineering and Technology issued a Grant of Certification to Vanu, Inc., a software development company, for a cellular base station transmitter.

Software defined radios can change the frequency range, modulation type or output power of a radio device without making changes to hardware components. This programmable capacity permits radios to be highly adaptable to changing needs, protocols and environments.

Vanu, Inc. has demonstrated that its device complies with the Commission's rules, and has shown that its software has sufficient controls so that the device cannot be modified to operate outside its Commission-approved parameters. The Commission currently has a rulemaking pending that will further streamline the software defined radio requirements, and it is working with each applicant on a case-by-case basis to facilitate compliance with the current rules.

For questions regarding the SDR proceeding, contact Mr. Hugh Van Tuij at 202-418-7506. For questions regarding the certification of SDRs or the Vanu applications, contact Mr. Joe Dichoso at 301-362-3024.

-FCC-

Approved this Wednesday, December 6th, 2017 by Attending Members

Ajit Pai
Ajit Pai, Chairman

Federal Communications Commission

Dennis A Roberson
Dennis Roberson, Chair

Technological Advisory Council