

MICHAEL HARTLEIB
P.O. Box 7078
Laguna Niguel, CA 92607

FILED VIA ECFS

July 31, 2007

Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, D.C. 20554

Re: Notice of *Ex Parte* Presentation; Consolidated Application for Authority to Transfer Control of XM Radio Inc. and Sirius Satellite Radio Inc. MB Docket No. 07-57

Dear Ms. Dortch:

Attached for your consideration, in connection with the above-referenced merger of XM Radio Inc. and Sirius Satellite Radio Inc. please find a recent article by *Satellite Standard Group* and Corporate Insider Overview by *Business Week*.

In accordance with Section 1.1206 of the Commission's rules, 47 C.F.R. § 1.1206, and the Commission's Public Notice dated March 29, 2007 (DA 07-1435), a copy of this letter with the attached articles is being filed in the docket via ECFS.

Please note *Satellite Standard Group's* article references a resume of an engineer responsible for integrating AAC+ CODECS to Sirius (SOC chips). Sirius claims to use PAC CODECS and XM claims to use AAC+ CODECS. Patent applications have been filed and updated.

According to the *Business Week*, Mr. Karmazin has or will "Return" to iBiquity's Board which could suggest cooperation between terrestrial radio's digital offerings (HD) and satellite radio.

Sincerely,

Michael Hartleib

CC:

Roy J. Stewart

Julie Salovaara

Judy Herman

Royce Sherlock

Marcia Glauberman

Jamila Bess Johnson

Gardner Foster

Stephen Duall

Marilyn Simon

Joel Rabinovitz

Ann Bushmiller

EXECUTIVE PROFILE*

Mel Karmazin [Return to iBiquity Digital Corporation](#)
Chief Executive Officer and Director, [Sirius Satellite Radio Inc.](#)



26

Age Total Annual Compensation This person is connected to **26** board members in **3** different organizations across **4** different industries.

62 **\$4,250,000** [See Board Relationships](#)
As of Fiscal Year 2006

BACKGROUND*

Mel Karmazin has been the Chief Executive Officer of Sirius Satellite Radio Inc. since November 18, 2004. Mr. Karmazin served as Co-Chief Operating Officer of CBS Corp. Mr. Karmazin served as President and Chief Operating Officer of Viacom Inc., since May 4, 2000 until June 1, 2004. Mr. Karmazin served as President and Chief Executive Officer of CBS Corp. from January 1999 until May 2000. He served as President and Chief Operating Officer of CBS Corp. from April 1998 ...

[Read Full Background](#)

CORPORATE HEADQUARTERS*

August 01, 2007 12:58 AM ET
Computers and Electronic Equipment

iBiquity Digital Corporation

[SnapshotPeople](#)
[Overview](#)[Board of Directors](#)[Committees](#)

IBIQUITY DIGITAL CORPORATION INSIDERS ON BOARD OF DIRECTORS

Name (Connections)	Relationships	Title	Age
Robert Struble	85 Relationships	Founder, Chairman of the Board, Chief Executive Officer and President	--

OTHER BOARD MEMBERS ON BOARD OF DIRECTORS

Name (Connections)	Relationships	Primary Company	Age
Surendra Pai	 20 Relationships	Authentidate Holding Corp.	43
Frank Adams J.D.	 78 Relationships	Grotech Capital Group, Inc.	58
Alfred Liggins III	 19 Relationships	Radio One Inc.	41
Frederick Wilson	 47 Relationships	Union Square Ventures	40
Gerald Poch J.D.	 79 Relationships	Pequot Ventures	58
Jacques Totoroli	 12 Relationships	Viacom, Inc.	47
Jerry Poch	 12 Relationships	iBiquity Digital Corporation	--
Jeffrey Littlejohn	 12 Relationships	iBiquity Digital Corporation	--
David Field	 18 Relationships	Entercom Communications Corp.	43
Daniel Ehrman Jr.	 12 Relationships	iBiquity Digital Corporation	--
Thomas Uhlman Ph.D.	 25 Relationships	NV Partners IV, L.P.	58
Mel Karmazin	 26 Relationships	Sirius Satellite Radio Inc.	62

23rd
Jul

The Merger, Capabilities and CODEC

Posted by Tyler Savery | Satellite Standard Group at 11:00 am EST

Much has been made about just how Sirius and XM could share content as a merged company. Some people find obstacles in differing codec, and feel that such sharing is simply not possible. Others see the obstacle and try to identify a solution.

Part of this whole issues centers around the fact that Sirius and XM use differing CODECS to run and operate their respective systems, and the fact that these CODECs are not compatible. Sirius uses PAC and XM uses AAC+. How then can Sirius and XM effectively merge, when their systems have differing foundations?

What if a solution already exists, and what if that solution can be implemented with a firmware update?

A source that we have spoken to on many occasions is pretty adept at digging up information, may have identified plausible solutions in the form of a resume. Additional information that is very interesting (though quite detailed and technical) can be garnered from various patent applications.

THE RESUME - (Excerpts)

The importance here is not the name of the individual, or other personally identifiable information, but rather what this person was doing. I have taken the liberty of editing the resume to show only the work experience section relating to the subject matter at hand. As can clearly be seen, this individual worked on adding AAC+ Codec to the second generation chipset for Sirius receivers. Thus, what many have seen as a potential hurdle in the synergy process may in fact have been addressed back in 2003. It is quite possible

that Sirius radios from Generation 2 forward have capabilities to utilize the AAC+ CODEC.

SUMMARY

Experienced firmware engineer with strength on Telecommunication, Digital Signal Processing, Networking, and RT embedded development.

EXPERTISE

- *Digital Signal Processing algorithm and software for telecomm systems (5 year solid experience)*
- *Microprocessor/DSP based embedded RT system design and development (8 year extensive experience)*
- *Ethernet LAN, TCP/IP based networking and applications (4 year extensive experience)*
- *C++, C, and assembly programming*

MODERATE

- *Hardware programming with VHDL and FPGA*

- *Board level circuit design*

EXPERIENCE

Firmware Engineer (03/02 - present)

Worked on wireless communication chipsets and systems development.

- *Worked on a video-over-WiFi project. The project is to deliver MPEG2/MPEG4 video over 802.11 WLAN. Did prototyping work on the Altera Excalibur FPGA platform. Software development was based on an ARM922T™ processor integrated in Excalibur.*
- *As a core member in digital backend firmware development, continued working on a satellite radio project called SDARS. Work focused on the 2nd generation chipset development for Sirius Radio receivers. Responsibilities included:*
 - Firmware migration onto a new all-in-one baseband chip.*
 - Adding AAC+ audio codec to the 2nd generation SDARS chipset.*
 - Working out receiver value-adding features together with customers.*

Given the announcement today relating to programming capability, people may want to look at things in a new light. To be clear, these bits of information do not mean that certain capabilities exist. However, clearly such operations have been thought about for quite some time. In my opinion, Sirius chipset generation 2 and beyond are the “merger friendly” radios.

FROM PATENT APPLICATIONS

[0006] It should be noted that this disclosure is not limited to the efficient download of firmware images alone, but may be applied to any configuration image which is typically stored in non-volatile memory, such as the hardware configuration bit files for a Complex Programmable Logic Device (CPLD) or Field Programmable Gate Array (FPGA). CPLD and FPGA devices utilize a form of non-volatile memory, on or off-chip, to store the hardware configuration data.

This information illustrates capabilities, and how receivers get and handle information.