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Executive Spotlight: Dave Bettinger

Recently announced by iDirect are two ground-breaking upgrades to its Evolution hardware line and operating software. *Dave Bettinger*, iDirect's chief technology officer took a few moments to fill in *SatMagazine* on the details of these next-generation enhancements.

Mr. *Bettinger* joined **iDirect Technologies** as the Director of Hardware Engineering in 1996 and became responsible for all hardware and software development as the Vice President of Engineering in 2002. In his role as Chief Technology Officer, he is responsible for the oversight of all technology decisions within iDirect and serves to drive the strategic direction for product development. In addition to being the lead system architect for iDirect's flagship *NetModem* and *iNFINTI* series products, Mr. *Bettinger* is also active in industry standards organizations and forums and is a member of the

The advertisement features a background image of a flight information display board (FID) with various flight numbers and city names. The visible text on the board includes: SU 162 LONDON, JU 8132 DUBAI, JU 350 MOSCOW, LH 5981 LAGOS, and 4108 SHANGHAI NEW YORK. Below the image, the headline reads "One Platform. Countless Possibilities." followed by a paragraph of text describing the iDirect Intelligent Platform as a single integrated satellite communications system with flexibility to support any location, bandwidth, application, satellite or topology. The text concludes with "It's your passport to opportunity."

One Platform. Countless Possibilities.

Your clients have business needs that take them in different directions. Global networks. Mobile communications. Business continuity. Remote connectivity. You need a solution that meets those needs, no matter where they lead. That's why we've developed **The iDirect Intelligent Platform™**. It's a single integrated satellite communications system with the flexibility to take your clients anywhere. It's developed according to one universal set of requirements to support any location, bandwidth, application, satellite or topology. The platform allows for seamless integration with terrestrial networks. It simplifies network management. It provides satellite bandwidth efficiencies. It's your passport to opportunity.

Telecommunications

Industry Association, IEEE, and the IPv6 Forum.

He currently serves on the Board of Directors for the *Global VSAT Forum* and has been active in the satellite networking industry for more than 15 years. Previous to **iDirect**, Mr. *Bettinger* was a senior member of the technical staff at **Hughes Network Systems** in the Satellite Networks Division. Mr. Bettinger is a graduate of **Virginia Tech** with a Masters of Science degree in Electrical Engineering.

SatMagazine (SM)

Dave, would you tell us about iDirect's latest hardware and software additions?

Dave Bettinger

iDirect has expanded its Evolution DVB-S2/ACM product line with the high-performance Evolution X5 Satellite Router and two new line cards, coupled with an upgrade to iDirect's operating software, iDX 2.0. For service providers, the suite of new features delivers greater hardware processing power to boost network capacity and performance, a breakthrough in inbound bandwidth efficiency and expanded network design flexibility to differentiate service offerings and increase end-user satisfaction.



iDirect's Evolution X5 Satellite Router

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Can you explain the 'Power of 2' theme that surrounded this new product launch?

Dave Bettinger

The 'Power of 2' represents the performance and efficiency gains that iDirect has packed into this release.

With iDX 2.0, our customers gain the ability to support dual operating modes on the same hub, along with all hardware. This enables the complete integration of Evolution and iNFINITI products as well as iDirect's enhanced feature set into one platform.

iDX 2.0 also integrates two of iDirect's advanced networking technologies: Group Quality of Service (QoS) and Adaptive Coding and Modulation (ACM). By coupling these technologies, service providers can design and enforce "fair service" pricing models and create associated service level offerings at differentiated price points. They also have the ability to improve customer satisfaction in geographies commonly affected by adverse weather conditions.

Customers will also benefit from 2D 16-State, another built-in feature of iDX 2.0. 2D 16-State is the most powerful inbound coding option available today, providing a 10 to 20 percent increase in inbound IP throughput without sacrificing link performance.



iDIRECT
iDX 2.0

Operating Software
Hub Series
Satellite Router Series
iVantage™
Endless IP Applications

Operating Software

iDX 2.0 delivers new gains in bandwidth efficiency and service flexibility – from the most powerful inbound coding technology on the market to new options that guarantee data performance in adverse weather conditions.

Click on a feature to learn more.

2D 16-State Inbound Coding

GQoS/ACM

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How does the new Evolution X5 router improve upon current product standards?

Dave Bettinger

The X5 is an extremely flexible and powerful dual-mode remote that supports high-speed, high-efficiency IP broadband connectivity. Operating at twice the processing power of iDirect's Evolution X3 router, the X5 enables service providers to support higher data rates and greater traffic volumes to meet increased customer demand across a wide range of growing vertical markets.

The Evolution X5 can operate in DVB-S2 or iNFINITI mode, making it very versatile in its deployment. The hardware supports various software enabled options such as AES encryption and spread spectrum. Unlike the X3, Global NMS and Automatic Beam Switching are standard on the X5, allowing seamless roaming as it passes through several iNFINITI or DVB-S2 networks around the world.

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Are these new features targeted towards any specific iDirect customers?



Dave Bettinger



Dave Bettinger

iDX 2.0, when used with any of the Evolution products, will be geared towards commercial and government iDirect customers that want to either use DVB-S2 now or have plans to use it in the future.

When combining the X5 launch with the advanced features in iDX 2.0, service providers in verticals such as cellular backhaul, maritime, international defense, and

high-end enterprises including banking and financial institutions can benefit from a newly enhanced product line.

An Intelligent Platform?

The benefits of true enterprise connectivity touch nearly every facet of the enterprise, providing greater efficiencies, lower operating costs and increased productivity. Whether it's enabling faster, more secure financial transactions, assuring business continuity through network failures, or keeping a mobile, disperse workforce trained, IP connectivity drives business success.

Solution Overview

iDirect technology is trusted to support critical IP applications across the enterprise, providing the essential integration across terrestrial and satellite networks and platforms.

Whether it's VoIP, VPN, streaming media, Internet access or data backup, iDirect's advanced technology is an essential part of global enterprise networks everywhere, enabling workers from headquarters to the most remote offices to better connect and collaborate, and share information.

The iDirect Intelligent Platform™ is an easily deployable, efficient, fully encrypted solution that supports all the voice, data and video communications requirements with high network availability. It can be seamlessly integrated into terrestrial infrastructures. iDirect's unique IP-based approach to shared bandwidth significantly reduces