

"The T-VIPS TVG-420 solution provides exceptional reliability through its forward error correction module, an absolute requirement when we put remote news locations live on-air. The broadcast quality compressed HD signal of about 20Mbps, wrapped in ASI, is supplied to the TVG420, then IP encapsulated with highly robust error correction and supplied to the microwave radio input for line-of-sight transmission to our studio complex. Where it is de-encapsulated to ASI by the receiver side T-VIPS TVG420 and externally decoded to HD-SDI for news master control switching."



WSB-TV Engineering Department

Introduction

A pioneering TV broadcaster first on-air in 1948 and based in Atlanta, Georgia, WSB-TV Channel 2 is a highly successful Cox-owned ABC affiliate. Recent [2007] Nielsen Media Research ratings show that WSB-TV wins 21 of 24 hours of the total broadcast day each weekday in the Atlanta market. Perennial hit shows like "Oprah," "Regis and Kelly," and "Entertainment Tonight" along with ABC programs like "Good Morning America," "The View" and "ABC World News Tonight," draw the largest and most loyal audiences, and, when layered in with the power of Channel 2 Action News, create strength in reach and coverage unparalleled in other major markets.

WSB-TV is a Cox Television station. Cox Television includes 15 television stations, 3 national television sales representation firms, a television production company, and a Washington D.C. news office. Cox Television is a subsidiary of Cox Enterprises, Inc., based in Atlanta.

The Situation

The Atlanta market continues to grow and recently rose to the ninth largest television market in the country. Nielsen Media projects Atlanta to surpass Washington, DC in 2 years. Atlanta is a city that is full of history, and throughout many of those historical moments, WSB-TV has been documenting the stories, clarifying the issues, and supporting and leading its community.

In order to offer its viewers an even greater level of service and enhanced experience, WSB-TV sought to provide live remote compressed HD feeds over IP. TV broadcasters are transitioning to video-over-IP at an increasing pace, and given WSB-TV's proud heritage of technological innovation, it obviously wanted to deploy a reliable and high quality HD framework.

The Challenge

WSB-TV required technology solutions that would enable wireless IP backhaul links from ENG relay stations back to the studio. Given that the technology was needed for outside broadcast, reliability was obviously of paramount importance, as was quality of service, simplicity and flexibility.

The Result

WSB-TV selected T-VIPS' TVG420s, which were supplied by Controlware Communications Systems, a T-VIPS business partner for the Americas, achieving full operational status in June 2007.

The T-VIPS TVG420 solution provides exceptional reliability through its forward error correction module, an absolute requirement when remote news locations are put live on-air. The broadcast quality compressed HD signal of about 20Mbps, wrapped in ASI, is supplied to the TVG420, then IP encapsulated with highly robust error correction and supplied to the microwave radio input for line-of-sight transmission to the WSB-TV studio complex. It is then de-encapsulated to ASI by the receiver side T-VIPS TVG420 and externally decoded to HD-SDI for news master control switching.



Why T-VIPS?

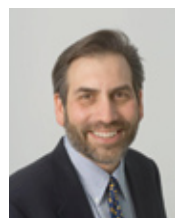
T-VIPS impressive portfolio of products excels in difficult real-world applications within the US broadcast market. Whether it is for wireless IP backhaul ENG links, as in this ground-breaking WSB-TV application, for the contribution of SD or HD live coverage from a network venue, or for studio-to-studio interchange, T-VIPS offers the most cost effective and advanced real-time IP video transport solutions of any manufacturer.

The TVG420 is part of the T-VIPS' Video Gateway suite; a line of compact, powerful and cost-effective products designed for real-time Contribution and Distribution of

broadcast quality video over IP networks. The TVG420 handles any MPEG-2 transport stream carrying MPEG-2, MPEG-4 (H.264) or VC.1 compressed video in SD, as well as offering an extremely high level performance for HD.

Whatever the video transport requirement, there is a T-VIPS solution ready to enable maximum flexibility, simplicity and reliability, as well as providing substantial cost savings in acquisition, installation and operation. WSB-TV's deployment of the TVG420 was smooth and faultless and continues to operate flawlessly.

"This WSB-TV contract validates our message that TV broadcasters are transitioning to video-over-IP technology at an increasing pace. I am very pleased that our TVG-420 link solution has been selected by this Cox flagship station, a TV station with a proud heritage of technological innovation. Whatever the video transport requirement, there is a T-VIPS solution ready to enable maximum flexibility, simplicity and reliability, as well as providing substantial cost savings in acquisition, installation and operation. T-VIPS' partnership with Controlware is an important link in our North American strategy, making our attractive IP video distribution solutions available to the television broadcasters and transmission providers across the continent."



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