

Cisco has always been a proponent of industry standards and a leader in the adoption and development of open architectures that accelerate deployment and encourage innovation. Within the cable industry, Cisco contributed to the DOCSIS/EuroDOCSIS standard as a CableLabs DOCSIS 1.0 committee member and, in fact, introduced the first DOCSIS based CMTS router in 1998, which today forms the foundation to 75% of the cable IP networks worldwide.

Cisco has continued its record of leadership in this area by becoming the first company to have a true Layer-3 device, the Cisco uBR7246VXR CMTS router, receive DOCSIS 1.1 qualification and then, the first to have multiple Layer-3 devices qualified when the uBR10012 CMTS router was passed last month. Cisco has also contributed large portions of the PacketCable specification and was the first to demonstrate in a public forum dQoS, call messaging, as well as a multi-vendor softswitch system. In addition, the Cisco uBR7246VXR is the only CMTS to be chosen by CableLabs as part of its Advanced Interoperability Test Network for PacketCable.

Cisco fully supports DOCSIS 2.0 as part of our ongoing commitment to the success of the cable industry and to open standards. Cisco actively participated in and contributed intellectual property to the DOCSIS 2.0 specification process. One significant contribution was the DOCSIS MAC-PHY Interface (DMPI) which defines the standard interface between MAC and PHY in the DOCSIS 2.0 spec. This enables the use of interchangeable PHYs from different vendors with the same MAC.

In Cisco's case, we have spent significant time and development resources in developing our own third generation "3G" MAC, which incorporates many unique advantages which we have developed over the past several years of product development. New line cards under development for both the uBR10012 and the uBR7246VXR will include this 3G MAC technology, which will initially support the Advanced TDMA portion of DOCSIS 2.0, and once the appropriate PHY chips are available will support the full implementation of DOCSIS 2.0, including both S-CDMA and A-TDMA. In all cases, full support of the spec in software will follow as soon as practical, depending on customer demand and on future spec revisions.

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