

IPDR.ORG Q4 NEWSLETTER

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2003: End-to-End IPDR, the Complete Solution for WiFi, Cable, Content, & VOIP

In 2003 IPDR Organization will be transforming from a billing-centric technical forum to become a revenue enabler for major evolving industries. Members at the center will gain \$ multi-million revenue streams for years to come.

In 2002, IPDR completed work on NDM-U and brought D-interface standardization to the bulk of the industry with the IPDR Compliant program. 2003 is the year to integrate this specialized technology into complete solutions.

End-to-end IPDR, codenamed "Circumference", at last ties together the A through E interfaces to provide a **complete solution for charging** IP and 3G Content, WiFi Roaming, and diverse packet cable industry applications.

The A-Interface work, led by Protocols WG chair Jeff Meyer, ties together Radius and Streaming IPDR. E-interface work extends NDM-U for settlement purposes or adopts an existing open settlement protocol. Protocol design work is targeted for completion in the first half of 2003.

IPDR work is ongoing in cooperation with [IETF](#) IPFIX and IPCDN participants (A-interface) and [ATIS](#) OBF (E-interface). Industry-specific groups such as [Cable Labs](#) and [PassOne](#) will ensure these solutions are universally accepted by those industries.

In its last meeting of 2002, the IPDR Board of Directors directed the IPDR President to address organizational resources to the following 2003 objective:

To reduce the time and cost of usage measurement and exchange for next-generation services by fostering industrial adoption of a unified solution for Authentication, Authorization, Accounting, and Settlement.

Industry analysts project that Packet Cable, WiFi, and Voice Over IP will be three of the fastest-growing services in the next 5 years. Companies that participate in IPDR Organization in 2003 will be the definitive solution providers for usage accounting and exchange of these billion-dollar industries.

Five new companies become IPDR Compliant™

The total number of IPDR Compliant vendors is now 12. The following companies have recently completed testing against NDM-U v3 to become IPDR Compliant™: American Management Systems (AMS), Billing Concepts, CSG, Digital Route and Marconi. The testing was conducted at the Billing Concepts facility in San Antonio, TX on November 20.

In addition to the companies mentioned above, ACE*COMM, Admocs, Comptel, Convergys, Hewlett-Packard, NEC, and Openet have also completed testing against NDM-U v3. For complete details on the vendors, products, and test results, visit the following web page: <http://www.ipdr.org/compliant-program/compliantvp.html>

IPDR.org Website Upgrade

IPDR.org is pleased to announce the launch of its revamped web site www.ipdr.org. We have completely changed the look and feel of the site, greatly improving upon the navigation; added new features; and updated the content to make it easier for visitors to find answers to all their questions.

IPDR.org would like to specially thank Laura Kurek, ACE*COMM, for her time and contribution to this project.

Supplier/Partner Settlement: use-cases for WiFi Roaming, Content, and VoIP

The advantage of end-to-end IPDR (from AAA to settlement) is now clear for the WiFi and Digital Content industries. As part of the development of a Supplier/Partner Settlement specification, members of the BRWG met during the October meeting to develop some detailed use-cases that explain how such a specification could be applied to solve some real-world settlement problems. We came away from the meeting with well-developed use-cases for doing settlement for WiFi (short-range wireless internet access) roaming and Content delivery.

Over the past month the BRWG has also fleshed out a use-case for VoIP settlement. These use-cases are a critical step forward because they provide: a context for deriving meaningful requirements for the S/PS specification, a solid demonstration of the value of the emerging S/PS specification, and concrete examples of how the specification can be applied to solve real problems.

IETF IPFIX continues to evaluate Streaming IPDR Internet-Draft

IETF IP Flow Information exchange working group is strongly considering Streaming NDM-U. In October, Jeff Meyer, the chair of the Protocol Working Group (PWG), submitted an IETF internet-draft to the IPFIX working group, which describes a new streaming IPDR protocol for use between service elements and mediation applications (the A interface as defined in NDM-U) based upon the NDM-U 3.1 record encoding scheme. Recently the group rated the Streaming IPDR submission slightly ahead of four other candidate protocols including CRANE, Diameter, LFAP, NetFlowV9. Due to an inconclusive decision, further evaluation of the five submissions must be done, and the IETF is expected to make a final decision within the first half of 2003.

This project has significant potential to push visibility and adoption of NDM-U into a much broader community, since IETF/IPFIX has active participants from equipment manufacturers, mediation vendors, and academia.

A copy of the IETF internet-draft can be found at:

<http://ipfix.doit.wisc.edu/archive/1123.html>

Members are encouraged to participate in the IETF IPFIX working group to advocate the adoption of Jeff's internet draft.

CableLabs® DOCSIS 2.0 to support IPDR NDM-U v3

The global cable industry intends to ensure across-the-board compliance with NDM-U v3. IPDR.org is continuing to build on our liaison relationship with CableLabs® by submitting NDM-U 3.1.1 to DOCSIS(tm) 2.0. Last quarter, CableLabs® completed an upgrade of DOCSIS(tm) 1.1 which brought it into alignment with NDM-U 3.1, and also defined an NDM-U 3.1-based service specification for collecting usage information about service flows between cable modems and the cable modem termination system. Acceptance of the IPDR.org work into DOCSIS 2.0 is slated for January 2003.

To access the DOCSIS(tm) 1.1 service specification visit <http://www.ipdr.org/download-docs/index.html> and click on service specifications.

New Marketing Collateral: Datasheets for NDM-U and Carrier adoption

Recently IPDR.org developed several benefit sheets that detail how the various industry segments are related to the work and the many benefits offered by IPDR.org. The topics of this collateral varies from the value of the NDM-U specification to equipment, mediation, and billing vendors to how the standard solves next generation settlement for content settlement and Wireless LAN Roaming.

This new collateral can be downloaded from the IPDR.org web site. The Usage Data Management sheets are located in the public home page, and the Settlements sheets are available via the members only area under IPDR Features at www.ipdr.org/members/index.html.

New Member Companies

IPDR.org welcomed the following companies as new members. **Charter member:** Cisco Systems, Inc. (www.cisco.com). **Associate members:** Broadband Communications Solutions Corporation (www.bsc-corp.com), Centrisoft (www.centrisoft.com), Digital Route (www.digitalroute.com), Formula Telecom Solutions (www.fts-soft.com), and Kornets (www.kornets.co.kr).