

Unity Performance Manager™





Figure 1: Dashboard View

Unity Performance Manager™

Providing secure 24x7 web-based DAS performance detail

ADC distributed antenna systems (DAS) provide industry-leading quality of service in thousands of venues, campuses, and outdoor areas where traditional cell towers could not adequately provide the network coverage and capacity needed. The InterReach Fusion®, InterReach Unison®, and FlexWave™ Prism systems are chosen by the world's top service providers because of their quality, reliability, scalability and flexibility as networks continue to evolve and adapt to new technologies, applications, and user changes. With network evolution and minimizing operating expenses in mind, it is imperative to have the capability to proactively monitor and manage those systems.

DAS systems support some of the most critical environments—high data rate consuming business users, photo-snapping and text frenzied concert and event goers and commuters in urban corridors, subways and airports where business and social mobile users try to maximize their time. With network operations centers (NOC) flooded with information from their diverse and vast networks, often times it's these user-dense areas that are not monitored as part of the core network. Service providers, managed service providers and large enterprises need a solution that will provide them a simple, fiscally feasible system to view the health of the network edge. This last mile booms with traffic as 2G, 3G and now 4G services proliferate inside of buildings, in large public venues and in the urban core where high user performance expectations and operator revenue opportunities reside.



Product Overview

The Unity Performance Manager (UPM) is a Windows Vista/XP-based centralized network management system providing a single user interface for ADC's DAS portfolio: InterReach Unison, InterReach Fusion, and FlexWave Prism. UPM provides remote monitoring and control and alarm reporting for one to hundreds of ADC systems regardless of their physical installation sites. The system is designed to support the needs of a wireless operator field technician, an enterprise network operations center (NOC) professional, or any party responsible for network performance and optimization.

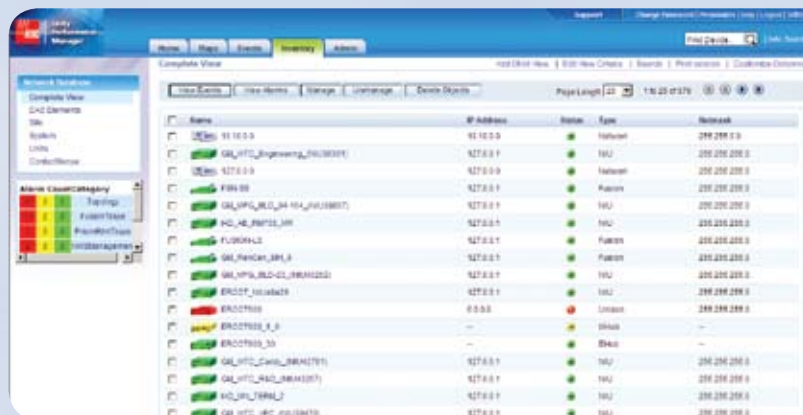


Figure 2: Complete View

Monitor: Event reporting and logging gives you an inside view of each unit's operation, ensuring your systems remain at peak performance. This 24x7 monitoring provides instant information on potential or developing problems and allows you to proactively schedule preventative maintenance.

Maintain: Heightened building and community security has added time and complexity to onsite calls. Remote diagnostic functionality helps reduce the number of calls and in the event of a service-affecting condition, lets you determine the nature and extent of the problem so that the dispatched personnel have accurate information and equipment for fast repairs.

A single UPM license allows you to monitor any number of systems through a specified computer. Systems can be added and site configuration updates easily made to your license, giving you flexibility and long-term investment benefits. UPM enforces access control through individual user IDs and passwords. The system supports an unlimited number of user accounts. Each user is classified into one of three levels of user groups: read-only, read-write, and administrator.

Through the graphical user interface (GUI), UPM provides visual indication of the status of all connected systems based on their alarm state. The GUI offers a graphical view of all sites, systems and units and site-based detail that offers specific site inventory information including: site ID, system ID, system type, system configuration, unit type/address/state. Alarms, alarm thresholds and screen views are all user-customizable.

The UPM includes fault management features such as: event correlation, alarm management, notification and escalation policies. UPM provides "heart-beat" monitoring of all systems as well as SNMP-based trap handling and fault management. In the event of a fault, the system can send fault management notifications via SMS or e-mail to field personnel based on user-configurable notification properties.

Features:

- A single interface for all ADC DAS monitoring and maintenance in your network
- Simple navigation and use
- Summary performance information and detailed item-level performance history
- Customizable GUI

Benefits:

- Maximize service up-time
- When necessary, minimize cost and time for service calls by dispatching informed staff and required resources

The Web Client allows you to work with:

- Network Maps
- Inventory
- Events
- Alarms

UPM offers network maps to identify all named site locations monitored and managed as well as system inventory offering a birds-eye-view of your ADC DAS down to the remote device level using green, yellow, and red icons to depict clear, minor, and critical conditions for each device. All system and device level alarms are monitored for the ADC DAS and are tracked and defined in UPM as critical, major or minor. Understanding the type of condition and precise location in the network saves time and money as any corrective action can be managed as swiftly as possible.



Figure 3: Site-Smart View

Active alarms, which may be sorted in ascending or descending order by property, provide the following information:

- Date and time received
- System ID
- Alarm ID/Severity/Description/Action
- Site ID
- Unit address

Alarm information can be grouped by device, severity, etc. By allowing users to define their own alarm/event filters, UPM fosters flexible partitioning of work, based on product type, technology, skill level, geographical domain, and offers a high degree of personal productivity.

Performance log summaries are through the Web Client pages. Tables list the total alarm count on a module/category basis.

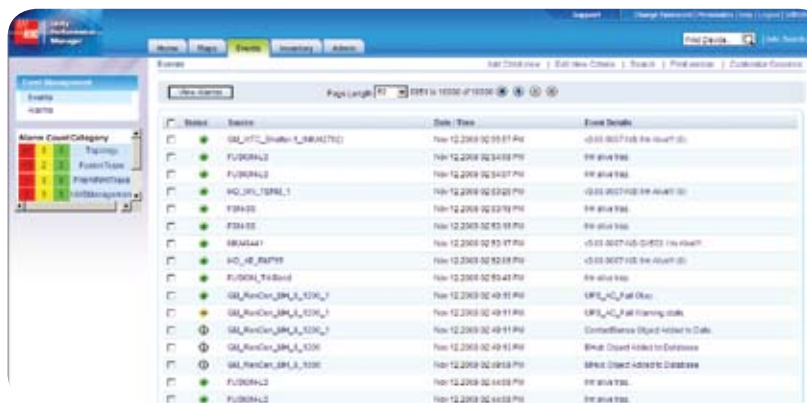


Figure 4: Events

Installation Requirements

Performance of ADC Unity Performance Manager depends considerably on the CPU and memory of both the client and server systems. The following table describes the suggested minimum configuration of the client and the server.

Operating Platform	Processor Type	Processor Speed	Memory	Hard Disc Space Required (For Installation)	Extra Disc Space Required (For Execution)
Windows®	Pentium D	2.0 GHz	1 GB RAM or Higher	400 MB	200 MB
Linux®	Pentium 4	2.4 GHz	1 GB RAM or Higher	400 MB	200 MB
Solaris®	UltraSPARC-III+	1.2 GHz	1 GB RAM or Higher	400 MB	200 MB

Supported software platforms include:

- RedHat Linux 9.0, Redhat Enterprise Linux 5.0, AS 4.0, and Fedora Core 9
- Solaris 10
- Windows Vista®, Windows XP®, and Windows Server 2008®

Contact your ADC representative for ordering information.



UNITY PERFORMANCE MANAGER™



Website: www.adc.com

From North America, Call Toll Free: 1-800-366-3891 • Outside of North America: +1-952-938-8080

Fax: +1-952-917-3237 • For a listing of ADC's global sales office locations, please refer to our website.

ADC Telecommunications, Inc., P.O. Box 1101, Minneapolis, Minnesota USA 55440-1101

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