

# Oportunidades y Desafíos que abre el nuevo Protocolo IPv6 en el Mercado Latinoamericano





## What is DDI & IPAM?



### What is DDI?



# DNS, DHCP, IP Address Management

### What is DDI?



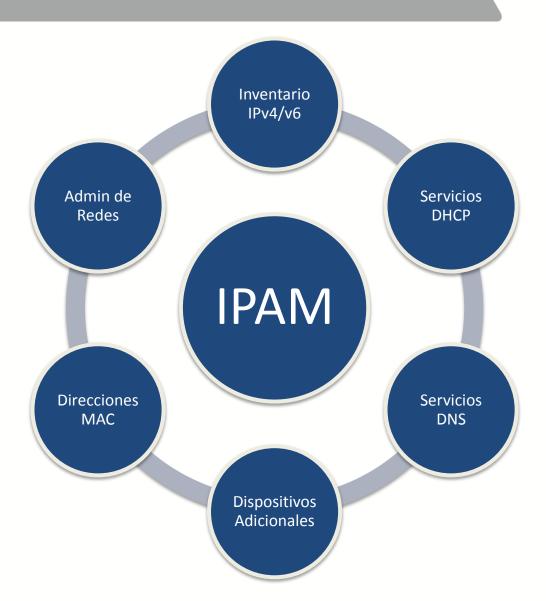
## DNS, DHCP, IP Address Management

It's about the management of your name and address infrastructure

- DHCP provides management of dynamic IP addresses
- DNS maps names to addresses

### What is IPAM?









## IPv4 Background



- Protocol is ancient (early 1970s)
- Designed to the support killer apps of the time
  - FTP (1971)
  - TELNET (1972)
  - SMTP (1981)
  - HTTP (1991)
- IPv4 address space is limited about 4B total addresses

### Welcome IPv6



- IPv4 is exhausted: IPv6 is finally here
- Game changing event The largest network changeover in the history of the Internet
- Panic has not set in yet
- Organizations are/will recognize the need for change
- Global concern
- Single largest driver for IPAM

## How Long Will it Last?





http://www.potaroo.net/tools/ipv4/index.html



IR6

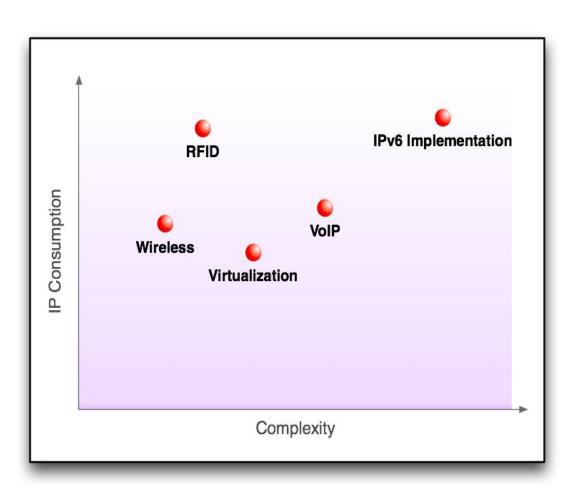
"By 2015, 17% of global Internet users will be IPv6, with 28% of new Internet connections running the protocol."

Gartner, Dec 2010

### Mundo es IP-Dependiente



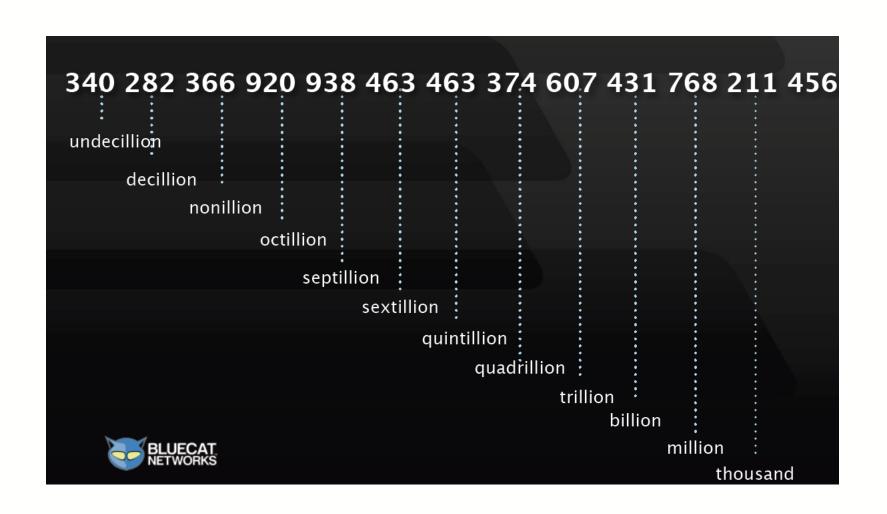
#### Consumo acelerado de Direcciones IP debido a:



- Crecimiento de infraestructura
- Aplicaciones
- Virtualización
- Planeación de desastres
- MS DNS/ DHCP Sin IPAM
- Hojas de cálculo Nada Viables
- Visibilidad y cumplimiento
- Necesidad Determinar quién está en la red

### IPv6 – How Many IP Addresses?





## Dissecting the IPv6 Address



Use IPv6 allocation to understand IP address

2001:0DB8:**001A:0F14**:BC:F78:9045:C102 **Subnet** 





10.4.83.72





10.4.83.72



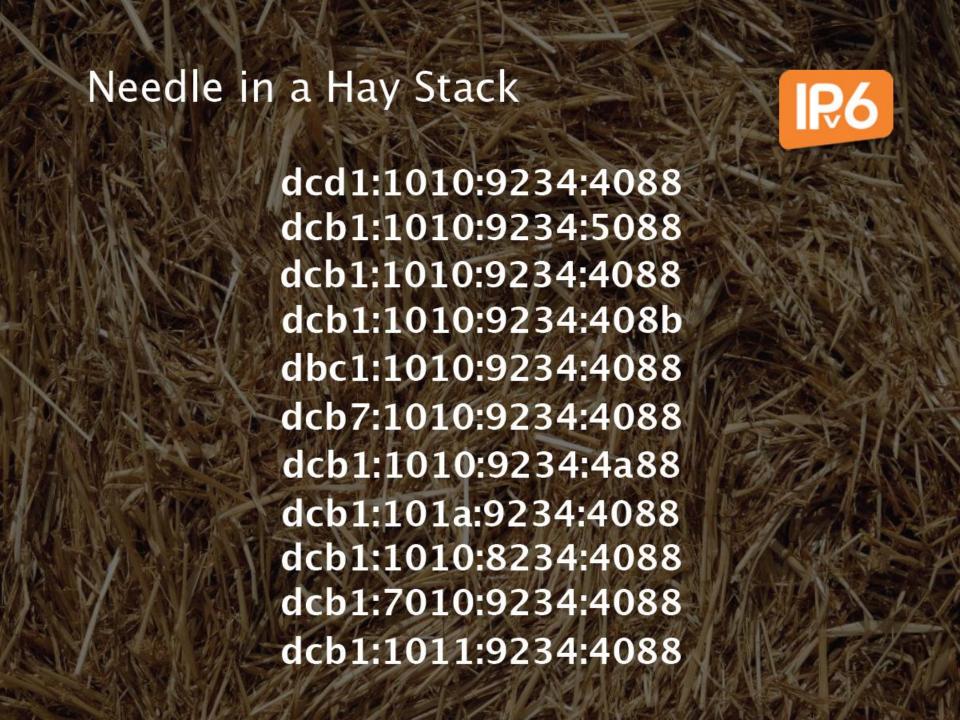


2001:fecd:ba23:cd1f:dcb1:1010:9234:4088





2001:fecd:ba23:cd1f:dcb1:1010:9234:4088







# Why do I need to Change?





Staying connected is the rule for successful businesses





IPv4 will move into legacy status





Networks will become more flexible





# Management is the Key



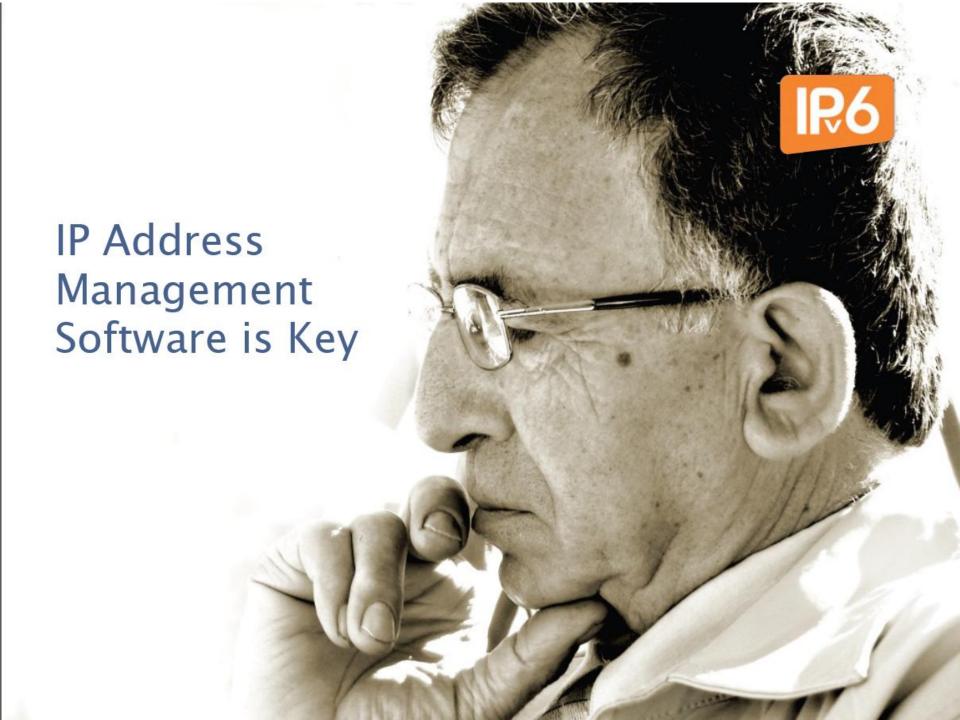




Addresses are not human friendly





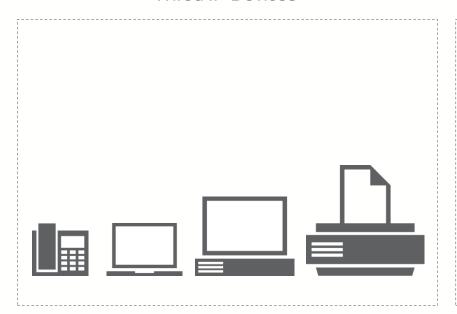


## The Corporate Office - Yesterday



Wired IP Devices

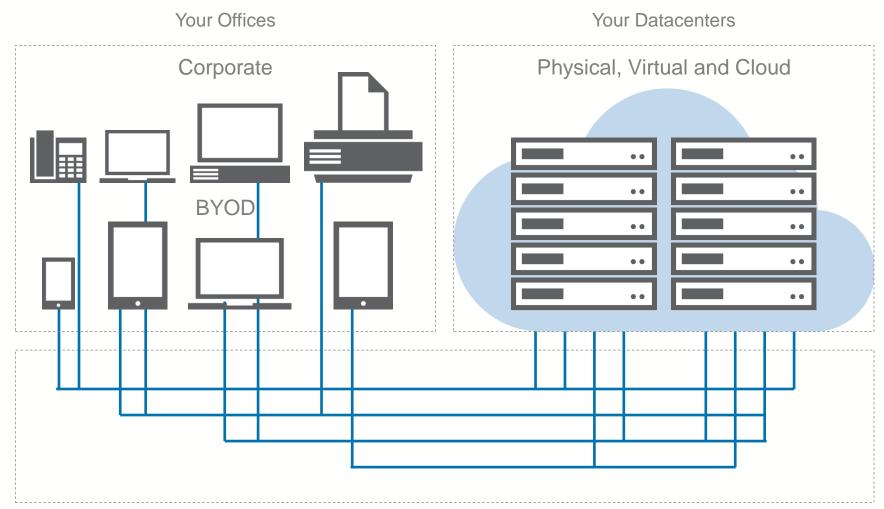
Physical Data Center





## Mobile and Cloud are Changing IT







# Why BlueCat?



### **Datos Relevantes**



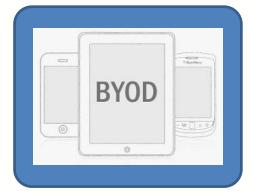
11 Años Mercado DDI

**+1800** Clientes

+120
Partners



IPv4 / IPv6



## BlueCat's IPAM Portfolio brings Network Intelligence



Your Offices

Your Datacenters

### BlueCat Mobile Security

Protect the network from unsecured devices Limit access to sensitive applications Integrate with Mobile Device Management

Visibility and Control

# BlueCat <u>Automation and Self-Service</u>

Provision any device automatically Delegate critical tasks with confidence Connect existing systems and processes

Reduce Errors and Costs

Manage all network addressing centrally Connect users, devices, location, applications and activity Deliver value through architecture, scale and multi-tenancy

BlueCat
Address Management

**Ensure Always-On Connectivity** 

### Gartner 2012



BlueCat Networks recibió la clasificación más alta "Strong Positive" en el MarketScope 2012 por segundo año consecutivo. Un "Strong Positive" es visto como un proveedor de productos, servicios o soluciones que las organizaciones deben considerar como una

excelente opción para

invertir estratégicamente

LICENSED FOR DISTRIBUTION

Gartner

### MarketScope for DNS, DHCP and IP Address Management

4 April 2012 ID:G00229075

Analyst(s): Lawrence Orans

#### ▼ VIEW SUMMARY

DNS, DHCP and IP address management solutions help improve network manageability and reliability IPAM and the requirement to improve DNS and/or DHCP stability are the two most common drivers for these solutions.

#### What You Need to Know

Domain Name System (DNS). Dynamic Host Configuration Protocol (DHCP) and IP address management (PAM) solutions tend to be "sticky." Enterprises don't change vendros often bessues of the mission-critical nature of DNS and the operational workflow that organizations build around their IPAH tools. When adopting new solutions, large enterprises should plan for a five- to 10-year time horizon. Small and midsize businesses (SMBs) have more flexibility — mainly because their requirements are less complex.

A Return to To

#### MarketScope

Gartner estimates that IPAM is the primary driver in more than 60% of DNS, DHCP and IPAM (DDI) projects. Many enterprise networks are still managing their IP address space manually via spreadsheets (approximately 75%), via homegrown applications or a combination of the two. IPAM solutions enable network administrators to work more efficiently. Key capabilities include automating workflow processes, highlighting shortages and potential issues with IP address space inventory, and enabling tiered administration (senior-level administrators delegate tasks and sign off on changes performed by lower-level administrators).

In nearly 40% of enterprises, improving the stability of DNS and/or DNCP is the primary driver for purchasing DDI solutions. <sup>3</sup> Many organizations use a DDI project to consolidate a heterogeneous DNS name server environment (for example, Windows DNS and Bind) into a common DNS name server platform. The same approach applies to DNCP, where multiple servers (for example, Windows DNCP and router-based DNCP) can be consolidated into a common DNCP server. Dedicated DNS/DNCP appliances (or dedicated software appliances) create a more stable environment, because other appliances (or dedicated software appliances) create a more stable environment, because other asoftware services are not sharing the platform. DDI solutions also enhance network stability when they are deployed in overlay mode (see the Market/Market Segment Description section) to unify managament and administrative functions across heterogeneous DNS and DNCP servers.

INv6 support continues to be heavily marketed by several vendors, particularly BlueCat Networks and Infobbox, although it is not a significant driver for DOI sales in today's market. The main benefit of DOI solutions comes from their implementation in internal networks; however, IPv6 is not being deployed internally, with the exception of U.S. federal government agencies and military organizations (see "Internet Protocol Version 6: It's Time for (Limited) Action"). In fact, Gartner's position is that enterprises whould IPv6-reable their Web pressoner first, before migrating their internal networks to IPv6. DOI vendors need to add IPv6 subport and compete to be recognized as leaders in this area, because there is demand in some verticals, as well as in the carrier and Internet service provider (ISP) moteral inforeseer, mainsteam enterprises are at least five years away from requiring IPv6 support in

Domain Name System Security Extensions (DNSSEC) is another advanced feature that all vendors support (it is not marketed as heavily as IPvo), but is also not a significant driver for DOI (see "DNS Root Zone Signing Ushers in the Era of DNSSEC"). DNSSEC adoption is driven by government mandates and some verticals (for example, financial), but it is rarely mentioned by Garther clients as a driver for purchasing a DOI solution. Garther expect that most enterprises are at least three to four years away from requiring DNSSEC support in DDI solutions (although a high-profile cache poisoning states would dramstically accelerate DNSSEC dooption).

#### EVIDENC

Based on online surveys conducted from 2010 to 2012 with a sample size of 75.

NOTE 1
RESOLUTION OF LITIGATION BETWEEN
BLUFCAT AND INFORLOX

Under the terms of an agreement settled in December 2011, BlueCat and Infobiox agreed to dismiss their pending patent and other litigation. The companies also agreed not to commence patent litigation against each other on any other patents for a least five years.

#### VENDORS ADDED OR DROPPED

We review and adjust our inclusion criteris for Nagle Quadratis and NerristCoopes an market change. As a result of these adjustments, the mix of vendors in any Nagle Quadratin or MarietScope in any Angle Quadratin or MarietScope in a Nagle Quadratin or MarietScope on year and not the next does not necessarily indicate that we have changed our opinion of that vendor. This may be a reflection of a change in the market and, therefore, changed evaluation criteria, or a change of focus by a vendor.

#### GARTNER MARKETSCOPE DEFINED

Gartner's MarketSoope provides specific guidance for users who are desploying, or have desployed, products are services. A Gartner MarketSoope stong obes not imply that the verbor meets all, few or none of the evaluation criteria. The Cartner MarketSoope revenor's products in companion with the evaluation criteria. Consider Gartner's criteria as they apply to your specific requirements. Contract Gartner to discuss how this evaluation may affect your specific needs.

#### Market 800pe Rating Framework

Strong Positive

Is viewed as a provider of strategic products, services or robustions:

Customers: Continue with planned investments.
 Potential customers: Consider this vendor a strong choice for strategic investments.

#### Positive

Demonstrates strength in specific areas, but execution in one or more areas may still be developing or inconsistent with other areas of performance:

### Clientes en México & Latinoamérica



### **Telecomunicaciones**





























### **Financiero**









#### Gobierno









#### Retail









#### **Educación / Otros**









### Caso de Éxito



### **About Apple**

- > 380 retail stores worldwide
- DHCP for employees and customers

### **Key Objective**

Optimal use of IP address space (result: 20min DHCP leases)

### About their Deployment

- 2 Proteus 5000
  - Centralized IPAM
- 760+ Adonis XMBs
  - 2 XMBs per store with DHCP failover







# Gracias!

José Luis Martínez
Director
Latinoamerica
jmartinez@bluecatnetworks.com

The IPAM Intelligence Company

