



IPv6 IN MEXICO: TEST AND PRODUCTION NETWORKS

Cesar Olvera
Gabriela Medina

cesar@redes.unam.mx
gabym@noc.unam.mx



**NATIONAL UNIVERSITY OF MEXICO, UNAM
& MEXICAN IPv6 FORUM**



Global IPv6 Summit, Madrid Spain
29 January - 1st February, 2001

DTD





OUTLINE

1. IPv6 in UNAM.
2. IPv6 in Mexico.
 - Test networks.
 - Production networks.
3. New projects.





UNAM BACKGROUND



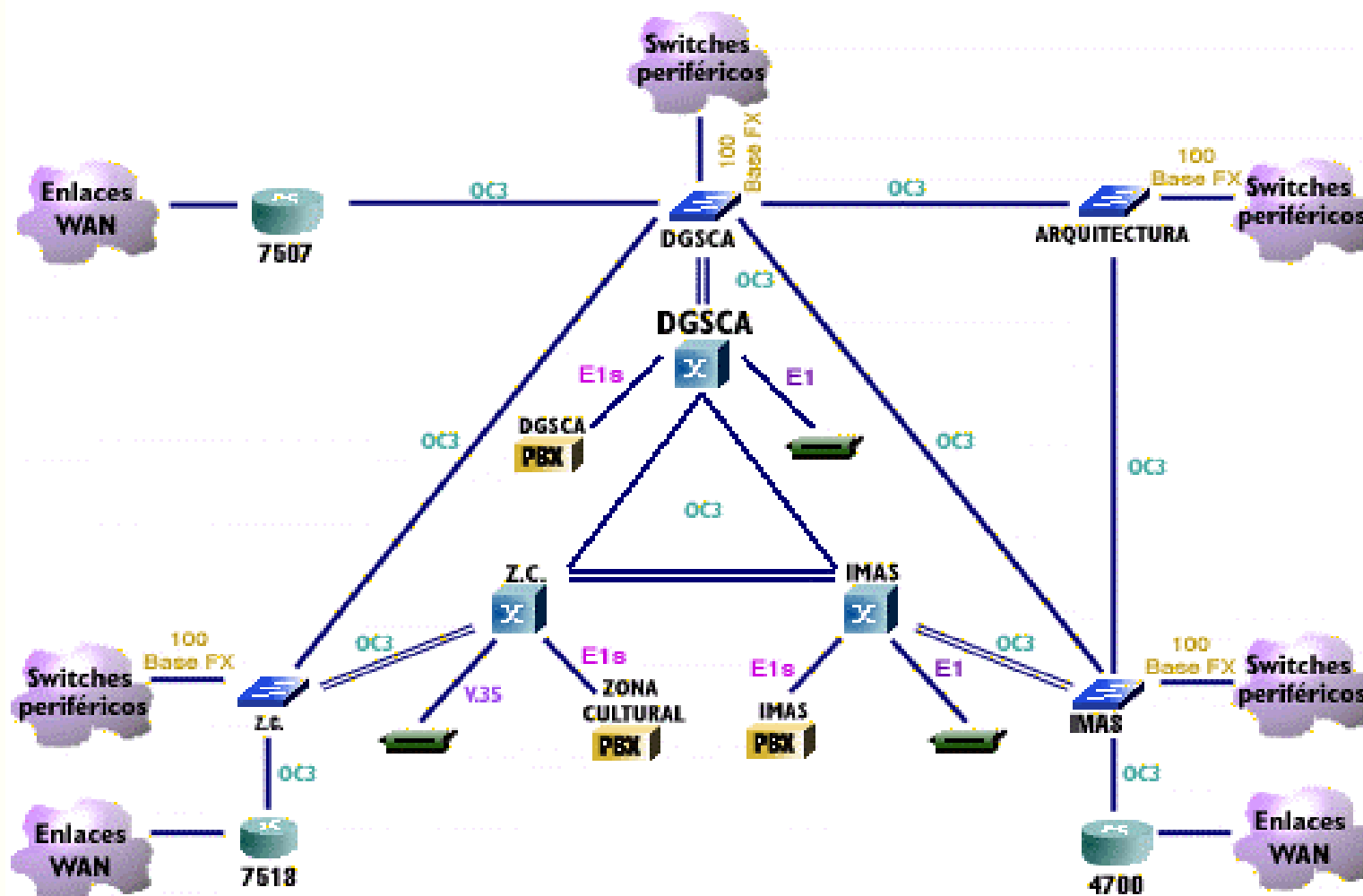
- The most important university in Mexico.
- The oldest in the american continent.
- The modern history begins in 1910 as The National University.



-



UNAM ATM BACKBONE





UNAM & INTERNET2

- UNAM is one of the main participants in Mexico Internet2 effort.
- UNAM hosts the Internet2 NOC.





- 12, 1998 IPv6 Project.
- 6, 1999 First 6Bone node in Mexico.
- 8, 1999 First IPv6 testbed network in Mexico.
- 9, 1999 First pTLA (3FFE:8070::/28) in Mexico.
- 4, 2000 IPv6 Forum member.
- 9, 2000 IPv6 Forum, Mexican chapter.
- 10, 2000 First sTLA (2001:0448::/35) in Mexico.





GOALS

- Investigate, test and implement IPv6 protocol in Mexico's Internet & Internet2 networks.
- Participate in the development of national and international IPv6 projects.
- Participate in the awareness and deployment of IPv6 and its applications.
- Provide IPv6 services in Mexico and Latin America.



COLLABORATORS

- UAM Metropolitan Autonomous University.
- UAEH Hidalgo Autonomous University.
- UAGRO Guerrero Autonomous University.
- IPN National Polytechnic Institute.
- ITESM Monterrey Institute of Technology and Higher Education.
- ITOX Oaxaca Technological Institute.
- ITMerida Merida Technological Institute.



- DTD**





TESTS

- IPv4 & IPv6 stacks on:
 - Hosts: Windows, Solaris, Linux.
 - Routers: Nortel Networks, Cisco, 3Com.
- Tunnels.
- DNS.
- Sockets.
- Web, FTP & multimedia applications.
- Autoconfiguration.
- Quality of Service.
- Network Address Translation.
- International IPv6 networks.
- IPv6 over Internet2.

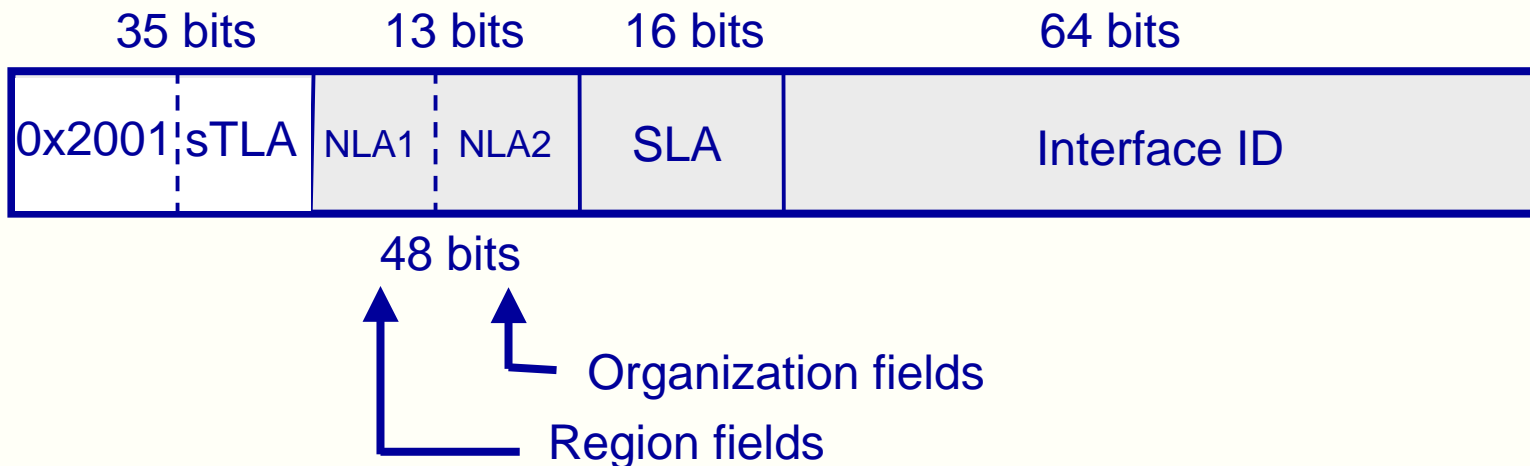


IPv6 ADDRESS SPACES

- UNAM test IPv6 addresses, pTLA 3FFE:8070::/28



- UNAM production IPv6 addresses, sTLA 2001:0448::/35



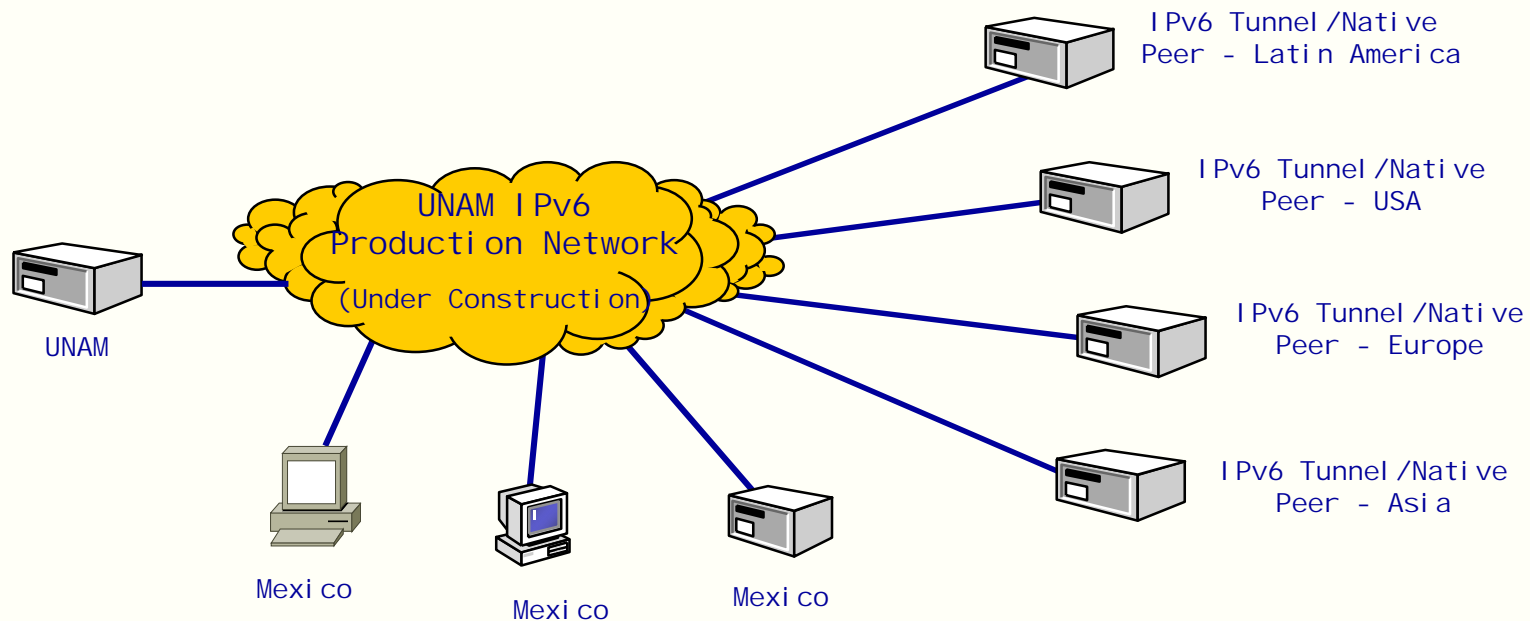






IPv6 PRODUCTION NETWORK

- We are working on the deployment.
- New peers are welcome !





- UNAM Internet services based on IPv6.
 - UNAM's current users (2001- 2002).
 - Universities, non-profit organizations, government departments, companies.
 - Other users in Mexico and Latin America (2001 - beyond).





- Share videos.
- We are looking for adequate IPv6 tools.
- In collaboration with Northwestern University and International Center for Advanced Internet Research (iCAIR).



EQUIPMENT PERFORMANCE

- Measure the performance of networking equipments using IPv6 traffic.
 - Throughput.
 - Latency.
 - Packet loss.
- In collaboration with Spirent Communications.





3TH NATIONAL IPv6 SEMINAR

- May 2001.
- Worldwide IPv6 community are welcome.
- Call for papers, February - April 2001.
- Run jointly 2ND National Colloquium on Emergent Technologies (IPv6, QoS, Multicast, and MPLS).





- Test and implement IPv6 protocol in Mexico Internet2 Network.
- We are working on the first peer:
 - UNAM - Abilene.
- In collaboration with Internet2-IPv6 Working Groups.



MEXICAN IPv6 FORUM

- Collaborate on International IPv6 Forum efforts.
- Work on awareness and deployment of IPv6 into Mexico and Latin America.
- We would like to host a Global IPv6 Summit in Mexico.



- 28 Nodes (667 worldwide, i.e. 4.2%).
 - 9 in Argentina
 - 10 in Brazil
 - 1 in Chile
 - 7 in Mexico
 - 1 in Uruguay
- 3 pTLA (73 worldwide, i.e. 4.1%).
 - Fibertel, Argentina
 - Rede Nacional de Pesquisa, RNP, Brazil
 - Universidad Nacional Autónoma de México, UNAM, Mexico



- DTD**





www.ipv6.unam.mx

cesar@redes.unam.mx
gabym@noc.unam.mx



IPv6 en Latinoamérica

Avance educativo, cultural y económico mediante el uso de tecnologías emergentes

La Dirección General de Servicios de Cómputo Académico organizó recientemente el "Primer Coloquio Nacional Tecnologías Emergentes en Telecomunicaciones", con el objetivo de promover la investigación, las pruebas y el uso de tecnologías de punta...

Ir a noticia

Sino ve la película baje los [plugins](#).

English Version

Contacto:

Fis: César Olvera Morales

E-mail: cesar@redes.unam.mx

Tels.: (52)5622 8526 y (52)5622 8527

Última Actualización:

12 de Diciembre del 2000

- **Objetivos**
- **Historia**
- **Nuestra Red IPv6**
- **Participantes**
- **Direcciones**
- **Documentos**
- **Cursos**
- **Eventos**
- **Internet2 e IPv6**
- **IPv6 Forum**
- **Redes Internacionales de IPv6**
- **Otros sitios**

Esta página puede ser visualizada con IPv4 y con **IPv6**.

DTD

