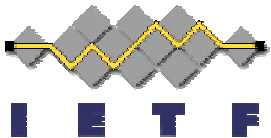


# OPES Scenarios

## 53rd IETF - Minneapolis, MN

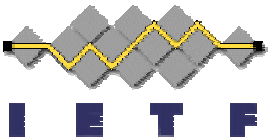
**Reinaldo Penno**

[rpenno@nortelnetworks.com](mailto:rpenno@nortelnetworks.com)



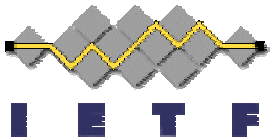
# Status of Current I-D

- **Current Deployment Scenarios and Use case draft will be taken as a starting point**
- **Some modifications are needed**
  - **Business case sections can be dropped ?**
  - **Some technical challenges presented on draft impose requirements on callout server vendors instead of OPES architecture or callout protocol per se**



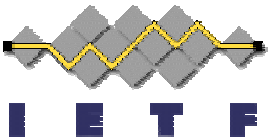
# Basic Deployment Scenarios Questions

- **Use or not of callout servers**
- **Location of intermediary in relation to client**
  - **Tunneling, Encryption, N Hops away**
- **Location of callout servers in relation to intermediary**
  - **Firewall, NAT, N Hops away**
- **Multiple intermediaries**
  - (Fail-over, load-balancing, chained services)
- **Multiple Callout serves**
  - (Fail-over, load balancing, chained services)
- **Others?**



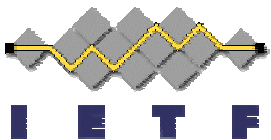
# Proposal on Deployment Scenarios

- **Given the basic questions**
  - **Discuss a set of general deployment scenarios that have impact on**
    - **Architecture and/or**
    - **Callout protocol requirements**



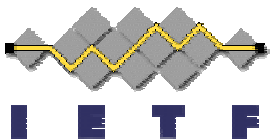
# Use Cases Categories

- **(A) Services performed on requests**
  - **Services that intend to modify requests**
  - **Services that don't intend to modify requests**
- **(B) Services performed on responses**
  - **Services that intend to modify responses**
  - **Services that don't intend to modify the response**
- **(C) Services that process the request and generate the response.**



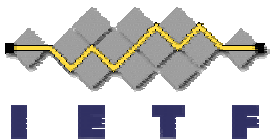
# Use cases examples

- **(Aa): Request Anonymizer**-> a service that removes the "referrer" field in HTTP headers, and then forwards the modified request.
- **(Ab): Request filtering** -> forward authorized requests unmodified, block unauthorized requests
- **(Ba): Response Filtering**
- **(C) : Assembling of dynamic web pages at the network edge**



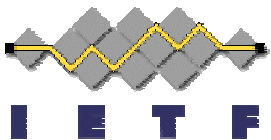
# Proposal on Use Cases Scenarios

- **Discuss the requirements for these categories**
- **Elaborate on**
  - **Failure handling**
  - **Notification mechanisms**
    - **who has to be notified when and how**
  - **message flow**
- **Illustrate each of these classes by**
  - **giving at last one concrete example**



## Which use cases are the most representative of each category?

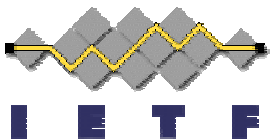
- **Virus Scanning?**
- **Adaptation of streaming media?**
- **Location based services?**
- **Insertion of Content?**
- **Content Filtering?**
- **...**





# What is needed

- **Input is needed**
  - Read draft and this proposal and comment on the mailing list
- **Volunteers for the I-D**
- **Reinaldo Penno**
  - 408 565 3023
  - [rpenno@nortelnetworks.com](mailto:rpenno@nortelnetworks.com)



# Design Team

- **Thanks to**
  - Robin Chen
  - Markus Hofmann
  - Stephen McHenry
  - Abbie Barbir

