

Overview

This document provides a draft test plan for the Moonv6 interoperability test event for VoIP (Call Agent / SIP Express Router across IP version 6). The SIP Express Router (SER) is a VoIP proxy server based on the Session Initiation Protocol (SIP, RFC3261). The server maintains a registration database of SIP clients and relays SIP message between those clients.

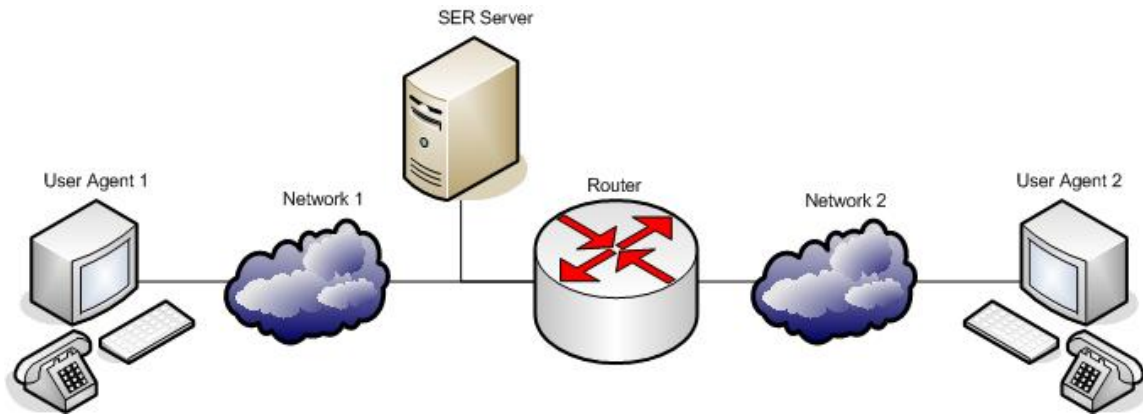
About Moonv6 (from website)

The Moonv6 project is a global effort led by the North American IPv6 Task Force (NAv6TF) involving the University of New Hampshire - InterOperability Laboratory (UNH-IOL), Internet2, vendors, service providers and regional IPv6 Forum Task Force network pilots worldwide. Taking place across the U.S. at multiple locations, the Moonv6 project is the largest permanently deployed multi-vendor IPv6 network in the world. The U.S. Government's Department of Defense Joint Interoperability Testing Command (JITC) and other government agencies, the Defense Research & Engineering Network (DREN) and the High Performance Computing Modernization Program (HPCMP) also play significant roles in the Moonv6 demonstrations ensuring DoD interoperability and migration objectives are identified and demonstrated.

Revision History

Revision	Date	Author	Reason for Change
1.1	November 2005	Lincoln Lavoie	Corrections to VoIP content
1.0	November 2005	Andrew Gadzik	Initial Draft

Network Diagram



Description

In each test, two clients will be connected to a SER, SIP Express Router. Calls will be made from a IPv6 network to another IPv6 network. The SER server will handle all SIP registrations, as well as all proxy server functionality. SIP user agents should configure the address assigned to the SER server as their proxy and registration server.

Test scenarios

Test_1.0: Generic Call over IPv6 - SIP to SIP with a SIP Express Router (SER)

Part A: Call being made from Client 1 to Client 2

1. Connect the all devices as shown in the Network Diagram.
2. Configure User Agent 1 to have an Ipv6 address of 3000::100/64
3. Configure the SER Server's link on network 1 to have an IPv6 address of 3000::2/64
4. Configure the Network 1 interface of the Router to have an IPv6 address of 3000::1
5. Configure the Network 2 interface of the Router to have an IPv6 address of 3001::1
6. Configure User Agent 2 to have an Ipv6 address of 3001::100/64
7. Make a call from User Agent 1 to User Agent 2

Part B: Call being made from Client 2 to Client 1

8. Connect the all devices as shown in the Network Diagram.
9. Configure User Agent 1 to have an Ipv6 address of 3000::100/64
10. Configure the SER Server's link on network 1 to have an IPv6 address of 3000::2/64
11. Configure the Network 1 interface of the Router to have an IPv6 address of 3000::1
12. Configure the Network 2 interface of the Router to have an IPv6 address of 3001::1
13. Configure User Agent 2 to have an Ipv6 address of 3001::100/64
14. Make a call from User Agent 2 to User Agent 1