



# APAN

## SIP Peering Overview

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## Agenda

1. APAN
2. What is the APAN SIP Peering Service.
3. Why are we doing it.
4. What benefits this brings to your organisation.
5. How it works.
6. What are the issues we are working to overcome.
7. What you need to do to get involved.
8. Deployment Status.
9. Our timeframe and development roadmap.

## APAN

- Firstly, for those that are not clear, what is APAN:
  - <http://www.apan.net/home/aboutapan/APAN.php>
  - “APAN (Asia-Pacific Advanced Network ) is a non-profit international consortium established on 3 June 1997. APAN is designed to be a high-performance network for research and development on advanced next generation applications and services. APAN provides an advanced networking environment for the research and education community in the Asia-Pacific region, and promotes global collaboration.”
- There are a number of working groups within the APAN community.
- The SIP-H.323 working group is one of many. (<http://www.apan.net/wg/sip-sec.php>)

## APAN SIP Peering Service– what is it?

- One of many activities of the working group.
- This project is designed to enable business to business calls between APAN Members. These calls can be audio and/or video calls. We do have the potential to enable other media should the current service succeed.

## APAN SIP Peering Service– why are we doing it?

- To simply make it easier for our members to call each other and improve collaboration using rich media business to business communications.
- To reduce International call costs.
- To encourage and promote regional cooperation.

## APAN SIP Peering Service – Benefits to your organisation

- Point to point audio and video using existing IP-PBX capable communications systems. Takes away many of the complexities of video calling.
- Reduction in International Telecommunication call costs.
- Improved inter Institution communications. Cross Institution research groups.
- Single trusted endpoint for signaling. Trunk setup, setup once and don't touch.

## APAN SIP Peering Service – How it works

- Lynchpin of our architecture centres around the OpenSER SIP server located out of Japan.
- NREN or Institution SIP server(s) peer with the APAN SIP server.
- APAN SIP server routes E.164 and/or domain based URI dialing to destination member.
- Call routing based on E.164 number dialing. Dial plan based on full E.164 International dialing including the leading plus “+”. Eg +61297796952.
- APAN community supports and manages the service.



## APAN SIP Peering Service – What issues we are working to overcome.

- Skill required by local technical staff to deploy a SIP server and peer with the APAN SIP server. We have recognised that some Institutions may not have the skills and/or resources available to deploy and maintain this technology.
- The working group is working on initiatives which are aimed at making it easier for institutions to join and connect to the service.
  - Sample configurations
  - Workshops (lookout for APAN33 in Thailand)
  - Bootable IOS images with application pre-installed.
- Expand member participation by:
  - Actively promoting the service through the APAN SIP-H.323 WG
  - Holding workshops during which we can explain how SIP works and how the peering service works.
  - Evangelising the service to others.



## APAN SIP Peering Service – What you need to do to get involved.

- Join the APAN SIP-H.323 working group mailing list at: <http://www.apan.net/wg/sip-participate.php>
- Email expression of interest to mailing list or peering co-ordinator (nimalr@learn.ac.lk).
- Build a SIP server or use existing SIP equipment if it exists.
- Setup peering with APAN SIP server. The following HOW-TO link helps explain some of the steps involved, but does not include detailed technical steps of how to build the actual server or configuration notes: [http://wiki.learn.ac.lk/index.php/SIP\\_Peering\\_How\\_To](http://wiki.learn.ac.lk/index.php/SIP_Peering_How_To)
- Test the service with existing connected members.
- Make sure your institution details are added to the Participating peers wiki page: [http://wiki.learn.ac.lk/index.php/Participating\\_peers](http://wiki.learn.ac.lk/index.php/Participating_peers)
- Help co-ordinate other institutions in your country.



<http://www.apan.net/wg/sip-sec.php>

**Thank You  
Questions ?**