



INFORMATION-
INTERNET SOCIETY



Neutral Public eXchange Point [NPXP]

IIX-NAP and ARIX-NAP Program

**Information-Internet Society of Indonesia
[ISOC-ID]**

<http://www.isoc-id.org>

**Bangkok, Thailand - 27 Febuary – 7 March 2002
APRICOT 2002**



ISOC-ID Profile

The ISOC-ID is a non-for profit, non-governmental, research, education, and national-international professional membership organization

Secretariat

Grha Citra Caraka, Mezzanine Floor
Jln Jend. Gatot Subroto 52,
JK, 12710, ID
V: +62-21 5296 3841
F: +62-21 5296 3844
M:+62-82 184 4444

National Internet Registry Office [NIRO]

INDONESIA INSTITUTE Of SCIENCES - LIPI
Sasana Widya
Jln Jend. Gatot Subroto 10
JK, 12710, ID
V: +62-21 522 5711
F: +62-21 527 7125

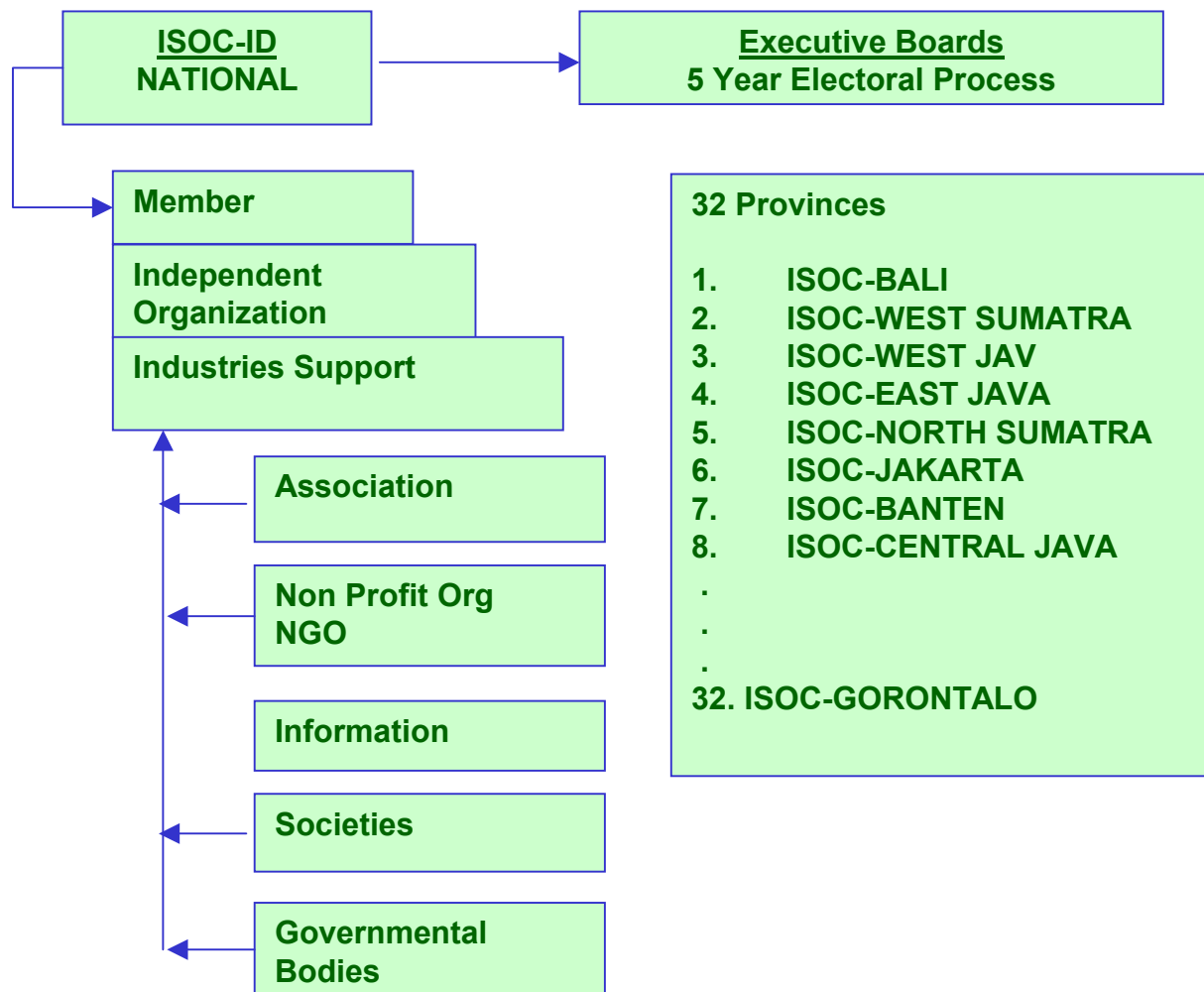


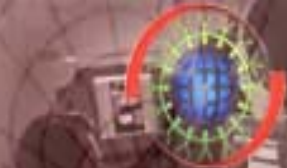
MISSION

- Development, maintenance, evolution, and dissemination of standards for the Internet and its internetworking technologies and applications in Indonesia;
- Growth and evolution of the Internet architecture [**packetized**] in Indonesia;
- Maintenance and evolution of effective administrative processes necessary for operation of the global Internet and internets
- Education and research related to the **Internet** and **open-system resources internetworking**;
- Harmonization of actions and activities at international levels to facilitate the development and availability of the Internet;
- Collection and dissemination of information related to the Internet and internetworking, including histories and archives;

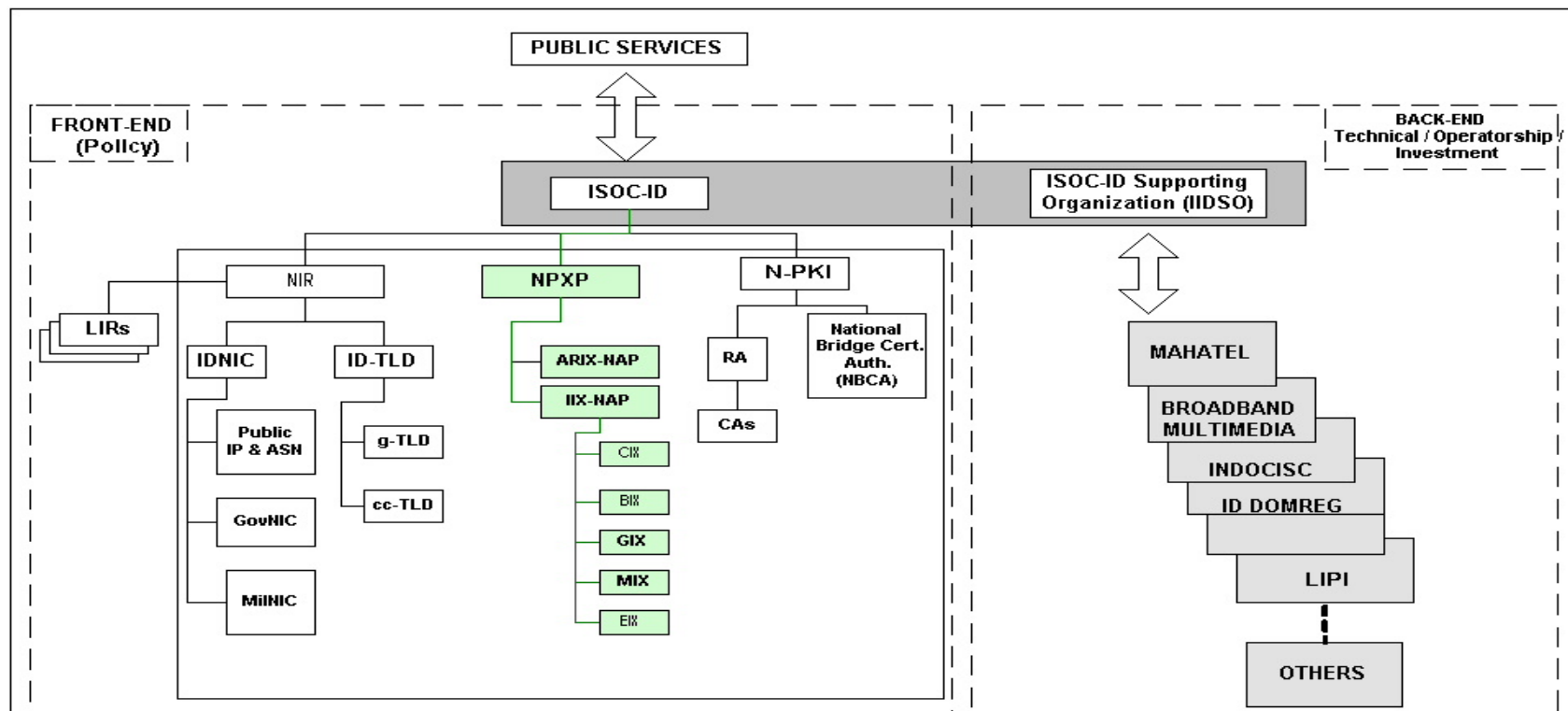


ISOC-ID STRUCTURE





PROGRAM STRUCTURE



TITLE Joint Cooperation among ISOC-ID and Supporting Organization [IISO]		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	DATE	DESCRIPTION																National Internet Registry Office [NIRO] INDONESIA INSTITUTE OF SCIENCE - LIPI Sasana Widya, Jln Gatot Subroto 10 Jakarta 12710 INDONESIA	
NO.	DATE	DESCRIPTION																					
DATE ORIGINAL	SCALE	CHECKED		DRAWN IDNIC Team																			
LATEST REVISION 0005/IR/IDNIC/2001	JOB NO.	V: +62 21 522 5711 F: +62 21 522 7125																					

Neutral Public eXchange Point [NPXP]

“A network infrastructure operated by a single neutral entity with the purpose to facilitate the exchange of Internet traffic from local, national and regional.”.

“Provide a knowledge base and communication platform for all members for the sharing and exchange of information relating to implementation, operation and administration of Internet exchange points.”

NPXP Program

- Indonesian Internet eXchange – Network Access Point [IIX-NAP]
 - Asia Regional Internet eXchange – Network Access Point [ARIX-NAP]
- [Initiative]*

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eXchange
Point



IIX-NAP PROGRAM

➤ **IXP Global Coordinator :**

Bill Manning

➤ **IPv4 Addresses :**

198.32.202.0 /24

198.32.203.0 /24

198.32.204.0 /24

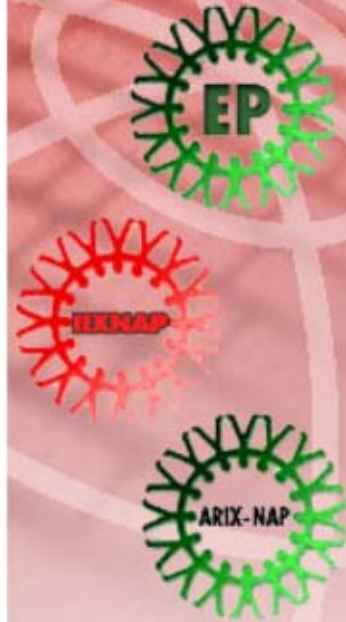
198.32.205.0 /24

➤ **Autonomous System Number :**

AS 7083

AS 7084

➤ **IPv6 Sub-TLA Addresses :**



IIX-NAP Interconnection

- **Local Access Point [LAP]**

- Commercial Internet eXchange [CIX] → incl. APJII-ID for ISP Internet eXchange
- Government Internet eXchange [GIX]
- Military Internet eXchange [MIX]
- Banking Internet eXchange [BIX]
- Education Internet eXchange [EIX]

- **Regional Access Point [RAP]**

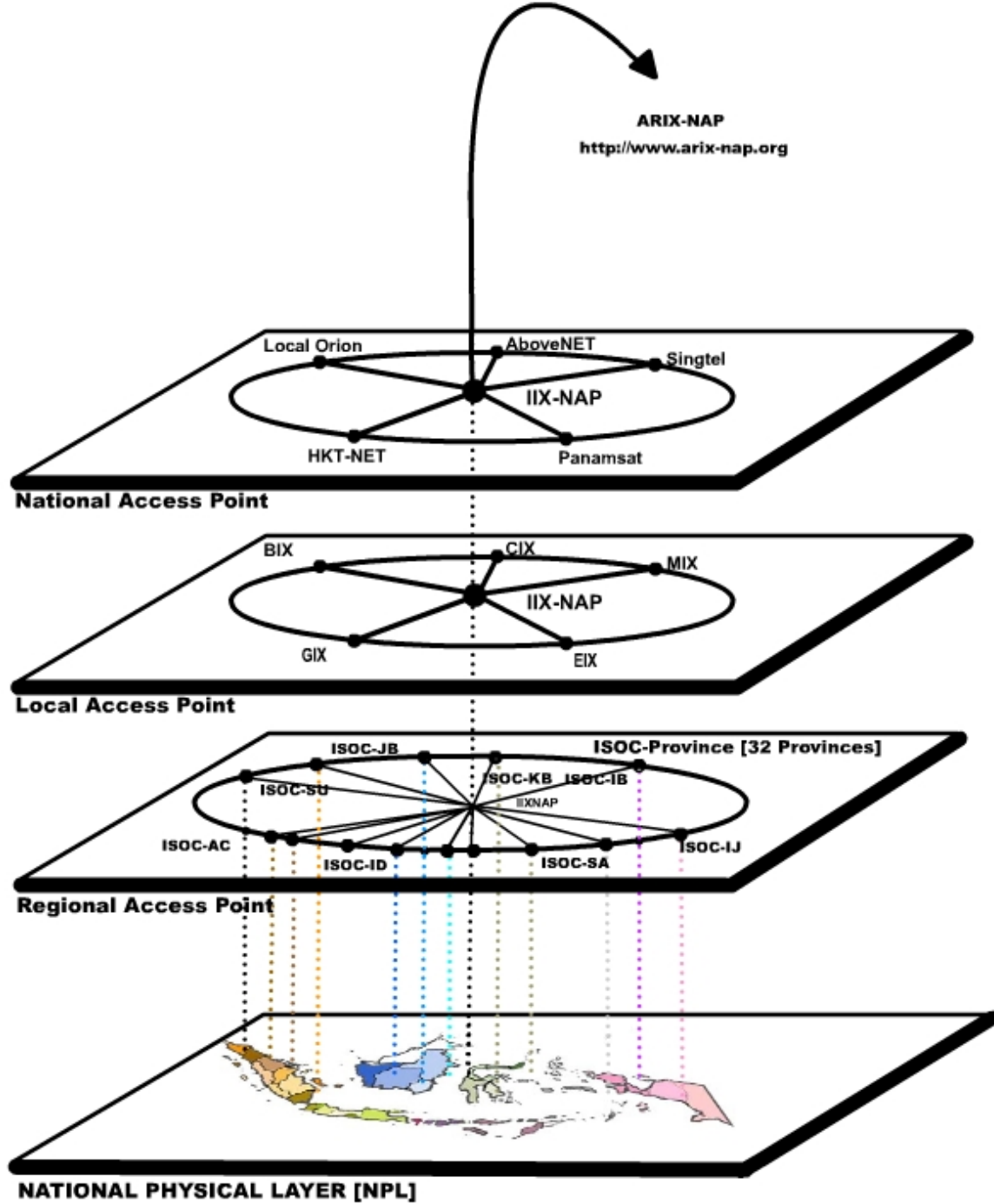
- Jakarta Internet eXchange [JKIX]
- Bali Internet eXchange [BAIX]
- Other Provinces Internet eXchanges [up to 32 Provinces]

- **National Access Point**

- West-NAP [Jakarta]
- East-NAP [Bali]

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Existing Exchange Point

➤ Commercial Internet eXchange

- CBN, LinkNet, Cline, AccessNet, BitNet, Centrin – ISP
- RadNet, WirelessNet – ISP
- APJII-IX1 – ISP Association
- Gramedia – Commercial Companies
- Prisma Technologies – Commercial Companies
- Napinfo – NAP Provider [under progress]

➤ Banking Internet eXchange

- Mandiri Bank
- Bursa Efek Jakarta
- Bank of Indonesia [under progress]

➤ Government Internet eXchange

- LIPI

➤ Military Internet eXchange

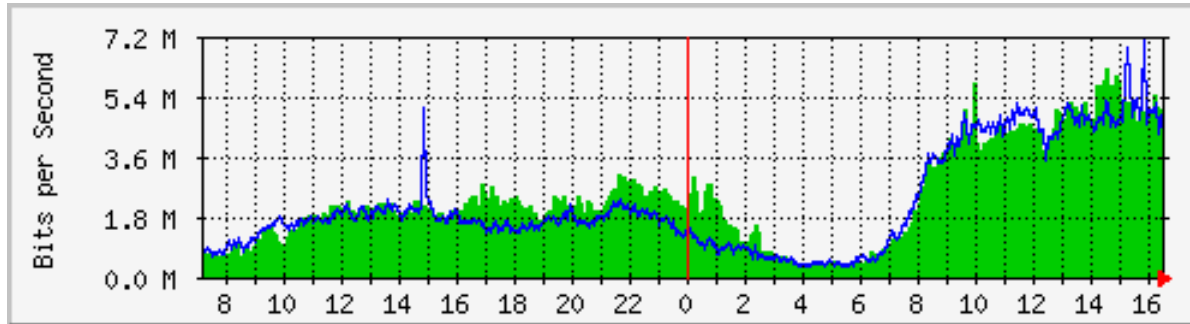
[under progress]

➤ Educational Internet eXchange

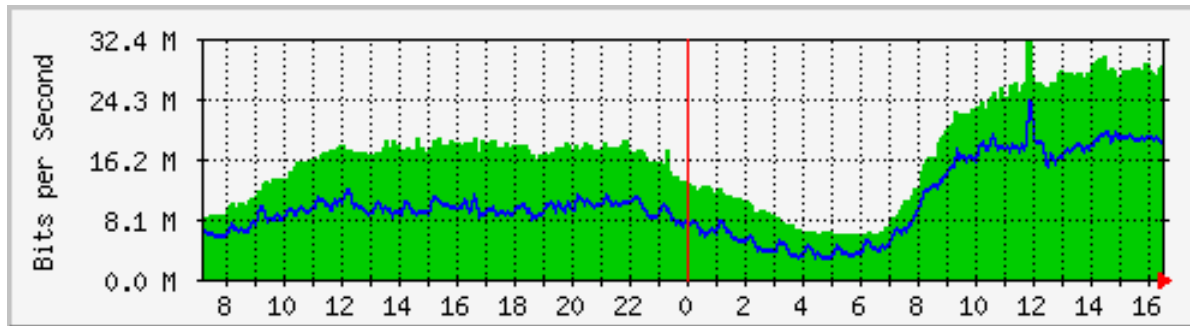
[under progress]



Existing FO Traffic to IIX1 & IIX2

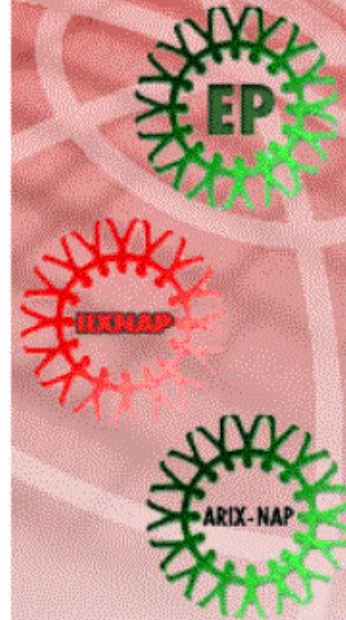


IIX 1 – 100Mbps FO Traffic (source anto.daryanto@kabelvision.com - 4 march 2002)



IIX 2 – 100Mbps FO Traffic (source anto.daryanto@kabelvision.com - 4 March 2002)

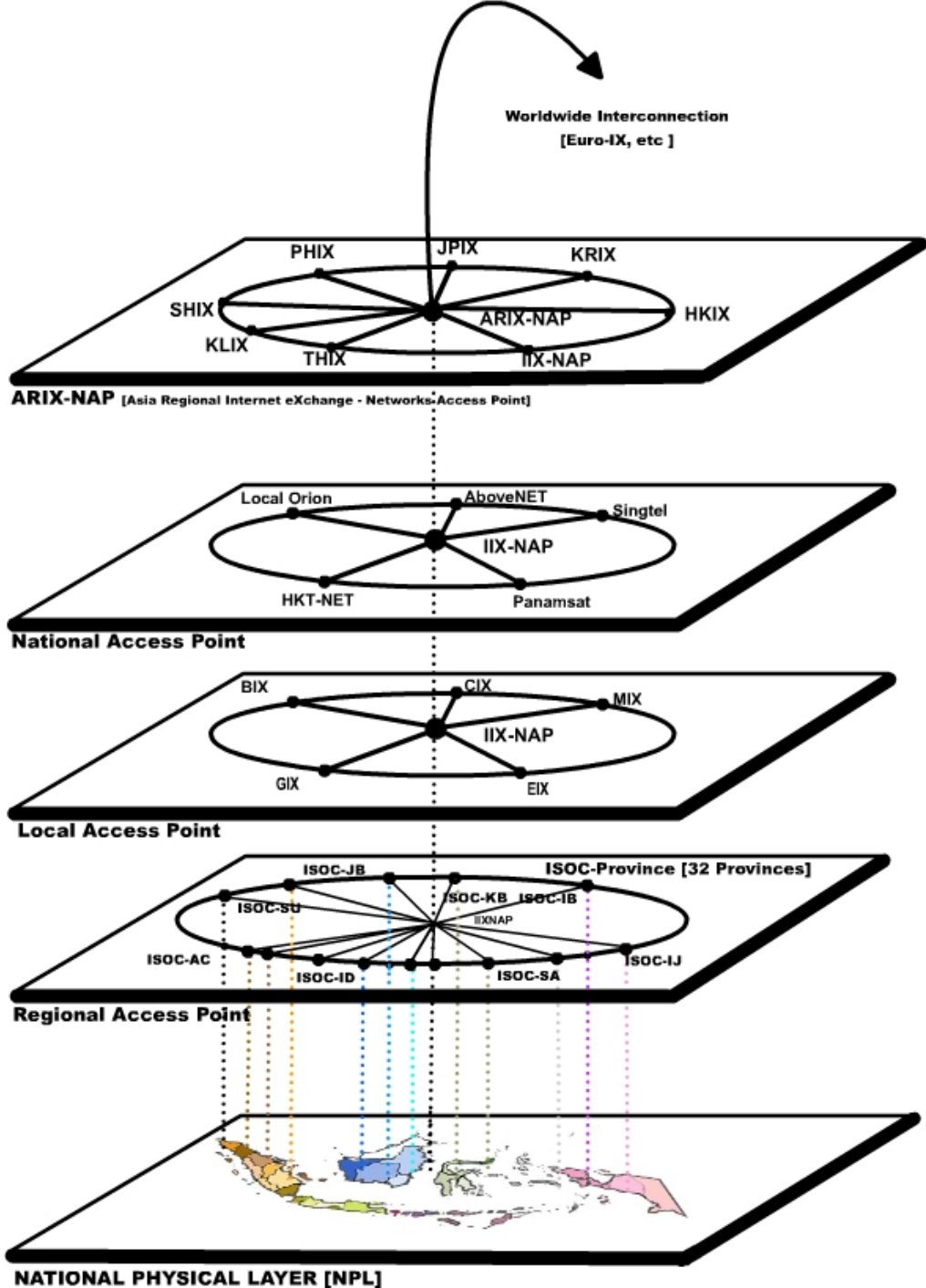
IIX1 and IIX2 Connection = 2 Mbps [Saturated]



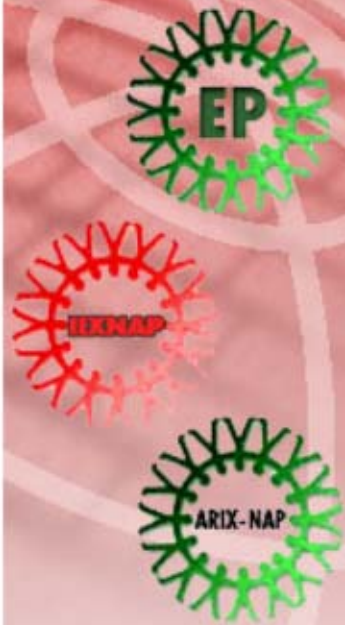
ARIX-NAP PROGRAM [INITIATIVE]

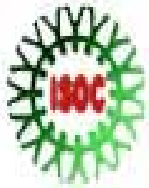
- **Why ISOC-ID make this Initiation ?**
 - IXP Concept for Asia Region
 - Mutual Interest for Standard and Cooperation
 - It's the RIGHT TIME !
- **Calling for Input from other IXPs in Asia**
 - JPIX ?
 - KRIX ?
 - ARIX [e-ASEAN Task Force] ?
 - others ?
- **Working Group / Task-Force**
 - ARIX-NAP Working Group
 - ARIX-NAP Task-Force
- **Proposed ARIX-NAP and Implementation**





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Thank You !

Further Information, please contact :

Marcelus Ardiwinata

Chief NIC Officer

Information-Internet Society of Indonesia [ISOC-ID]

P : +62 21 524 0111

F : +62 21 524 0110

E : marcelus@isoc-id.org