Way Forward:
Before and After IPv4 Address Exhaustion
IPv6 Deployment in Bangladesh

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I. At present 16 ISPs have IPv6 allocation from APNIC
II. 6 ISPs have test deployment of IPv6
III. BDIX (Bangladesh Internet Exchange Point) become Dual Stack and supporting IPv6 peering for last two years
IV. 4 ISPs are peering in IPv6 at BDIX

V. Countries only two IIGs are not providing IPv6 Transit yet.

VI. Bangladesh Government already developed IPv6 procurement document

VII. IPv6 Forum Bangladesh has started to function

Bangladesh Scenario:

Total Population: 150 million
Hand phone users: 59 million
PSTN users: 17 million
Voice density: 41.8% (Dec2008 31%)
Internet users: 6 million plus (Dec2008 3.21%)
Mobile Lady: 270,000
Bandwidth: 44.6 Gbps
Optical Fiber backbone: 15,000 km
Submarine cable: 1

IPv6 Deployment in Bangladesh

Bangladesh Scenario:

Population below 30years: 60% (90 million)

Employed population: 20 million (outside Agriculture and Industry)

Expatriate population: 6 million

Secondary School Enrollment: 47.3% (70 million)

Urban population: 28.5% (43.5 million)

GDP per capita : US$643

Road Map to Digital Bangladesh: Vision 2021

** ICT Policy adapted in 2009

** 5% of ADP budget for ICT

** 2% of Revenue Budget for ICT

** High Tech Park & Software park is in
        Implementation Stage

** Special Call Center Village staring shortly

** Back up Submarine Cable is underway

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Road Map to Digital Bangladesh: Vision 2021

TimeLine:

2014 = All 18,500 Secondary Schools will have ICT enabled
Classrooms & Labs

2021 = 80 Thousand primary schools will follow through

2014 = e-governance

2012 = e-commerce

2011= 40 thousand Telecinters

2015 = 50 thousand Certified professionals

2014 = 18 thousand community clinics

2013 = Lowest Level of Local Government offices (4,400) will be
connected to National backbone

2012 = 8,000 plus Post Offices will have e-centers

2011 = All post offices have mobile banking facility

2013 = Bandwidth upgraded to 164.6 G bps (from 44.6 G bps)

Bangladesh: Walking on Nine Legs

1. e-education,
2. e-health,
3. e-commerce
4. e-industry
5. e-governance
6. e-agriculture
7. e- communication infrastructure
8. e-legal frame work
9. e-software & hardware industry

IPv6: Government Deployment Plan:

a. Mandating IPv6 compliance in IP based products
b. Forming a Task Force
c. Setting up the Transition date to IPv6
d. Awareness building, Training for industry
e. Formation of IPv6 Forum (which already initiated)
f. Creation of Bangladesh National Internet Registry (BNIR)
g. Involvement of Academy/ R&D institution for setting up of test beds/ projects for IPv6 trials

Governance:

a. Establishment of an IPv6 Advisory Group to support, advice and inform the Task Force

b. Establishment of an inter agency IPv6 Working Group

c. Ongoing and open communication between the Task Force and the stakeholders

d. Sponsorship of Inter agency forums to share transition planning, best practices, challenges and experience

Governance:

e. Initiation of an IPv6 collaboration and information sharing work space

f. Acquisition of IPv6 address space

g. Implementation of common IPv6 acquisition and procurement policy through the regulatory authority

h. Issuance of IPv6 standards and guidance as necessary

IPv6 Advisory Group:

-- IPv6/ IPv4 Transition
-- Cyber security and personal privacy
-- Technology standards
-- Acquisition and procurement
-- IP address acquisition and management
-- Network management and testing

IPv6 Working Group:

-- Standards
-- Cyber security
-- Testing
-- Address Allocation and Management
-- Acquisition

THANK YOU

For

Being with US