

## NET-BONDING #1



Hybrid and Borderless Internet Exchange

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# CXC-IX



# Achievement, Progress and Improvement



# Achievement



# CERTIFICATION

## Open-IX Certification

## Mutually Agreed Norms for Routing Security

**IDCA News**

- 6 May 2024  
IDCA Concludes Tashkent International Investment Forum Visit
- 22 Apr 2024  
Leading AI Strategist Mark Minevich Joins IDCA as AI Counsel and Board of Directors Member
- 22 Mar 2024  
HEXACORE and 1018 Data Centers Sign with IDCA to Evaluate the Revolutionary Hexacore Protean Microchip and Obtain the SDS (System, Design, Service) Certification

**Open-IX Association certifies Indonesian Internet Exchange CloudXchange**

By Robbert Hoeffnagel | 15 Jun 2022

Having a high-quality internet infrastructure is crucial for countries looking to digitize their economies. These countries must convince investors that their infrastructure is competitive. A certification program such as that of the Open-IX Association may be helpful in this regard. The Open-IX Association has recently certified four more OIX-1 Internet Exchange Points (IXPs). All of these IXPs have become certified through the Community Supported Internet Exchange Program, which allows smaller internet exchanges to design their infrastructure and platforms for OIX-1 compliance.

The four IXPs are CloudXchange of Indonesia, and three US-based IXPs, Norfolk-IX (VA), Raleigh-IX (NC) and Houston-IX (TX).

**MANRS**

OBSERVATORY Search

ABOUT PROGRAMS COMMUNITY RESOURCES BLOG JOIN

**CLOUDXCHANGE**

Visit their website →

IXPs > PARTICIPANTS > CLOUDXCHANGE

**Participant Info**

LOCATION  
ID

NETWORK ASNs  
133339

**Implementation of MANRS Actions**

- ✓ **ACTION 1: FILTERING OF ROUTE ANNOUNCEMENTS**  
Our filtering on our Route Server using RPKI and IRR, as for RPKI use the internal validator with 3rd party validator software. For IRR, the validation is based on 3 IRR: APNIC, ARIN, RADB.
- ✓ **ACTION 2-1: OFFER ASSISTANCE TO ITS MEMBERS TO MAINTAIN**



# Progress



INTERNATIONAL PEERING CONFERENCE

Edge Peering & Interconnect Conference (EPIC)  
Asia 2022  
Indonesia

Peering Asia 4.0 2022  
Thailand



EVENT SUPPORT

Rakerwil APJII Bali Nusra 2023  
Bali

IDNIC AMM #2 2019  
Bandung

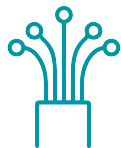




# Improvement



# Improvement



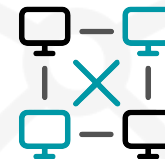
MAC Address Limitation



BGP Communities



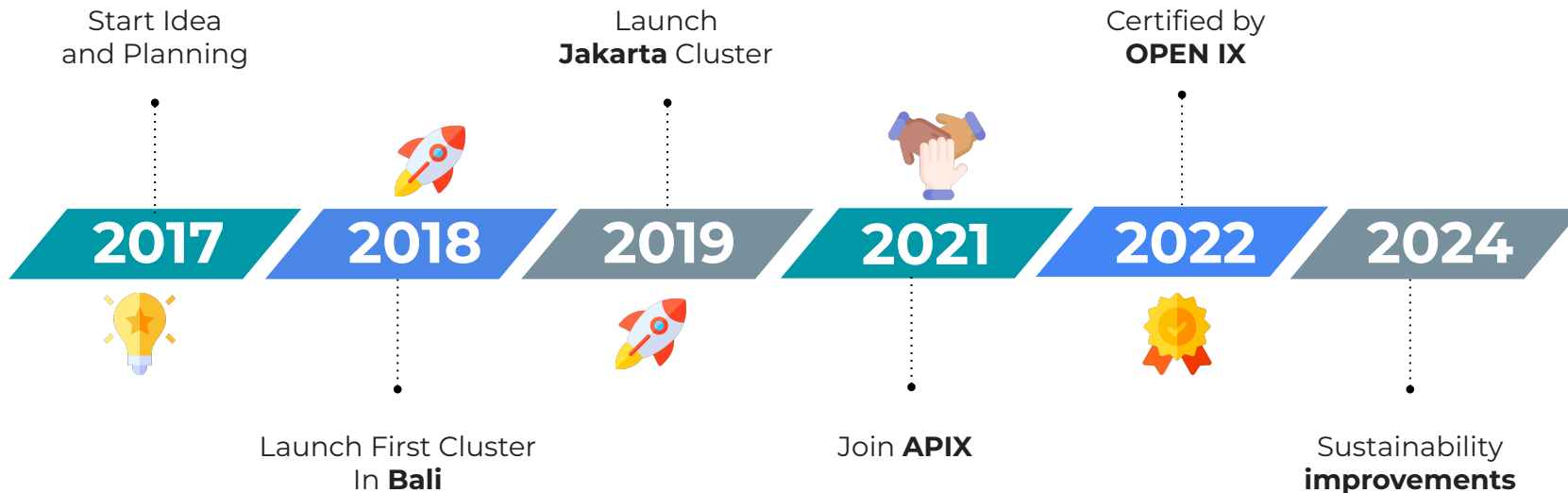
Blackholing Service



Auto Disable-Enable Peer



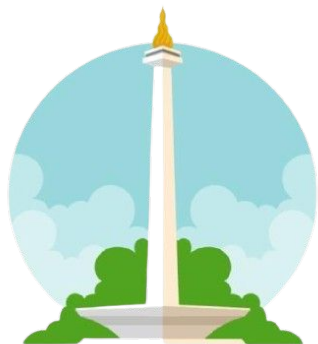
# History Timeline



# Quick Stats



# 2 Clusters



Jakarta



Bali



40 +

Total Member Peers  
Bali



# 7Gbps +

Total Daily **Local Traffic**  
Bali  
*(1 ms Latency / 1 Digit Latency)*



3000 +

Total **Local Prefix**  
Denpasar





# Ecosystem Opportunity & Benefit

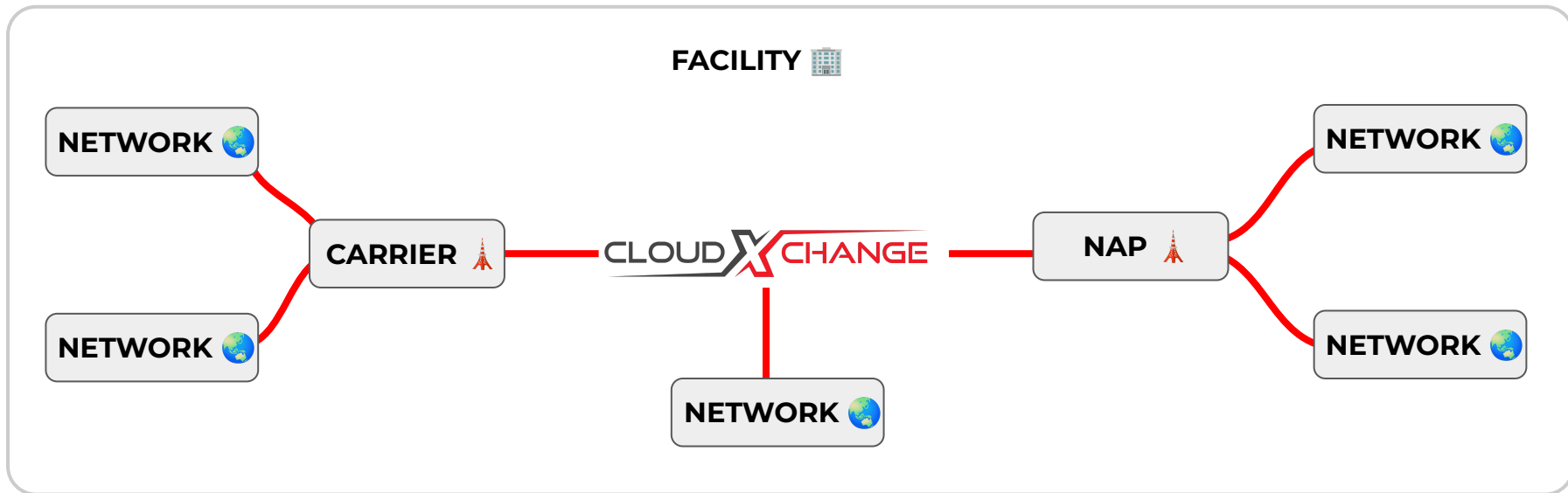
Network 

Carrier 

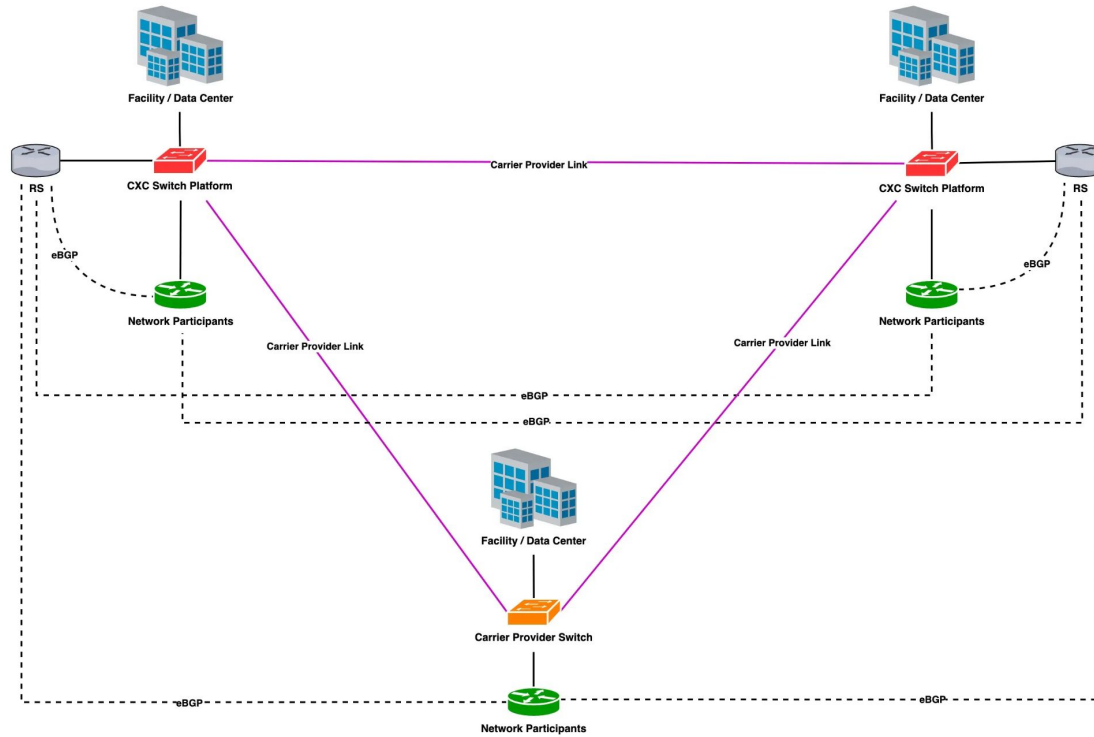
Facility 



# CXC Ecosystem



# NET-BONDING #1



# Content Provider



F-ROOT DNS



NTP Stratum 2



K-ROOT DNS



I-ROOT DNS



# New Policy



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**EXISTING MEMBER**

**FREEMIUM**

100 Mbps



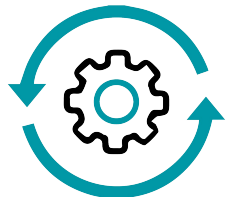
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**NEW MEMBER**

**BASE ON**

CARRIER PROVIDER



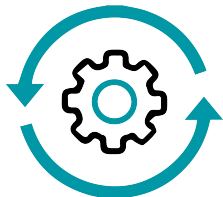


# WHY?



Collocation and cross connect cost at DC's





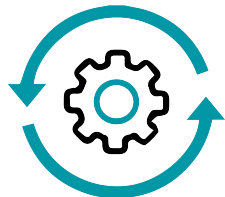
# WHY?



Electric power  
consume of  
content caching





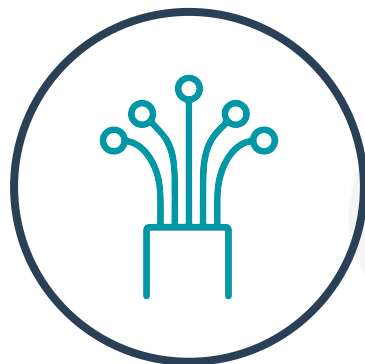


# WHY?

## IP Transit cost of content caching



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**CARRIER PROVIDER**

**ALLOWED**

To Sharing Port

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**NAP**

**ALLOWED**

Transit



# GET CONNECTED

<https://cloudxchange.id>



# Q & A

## SESSION





# THANK YOU

