

The 2nd Joint Meeting of The Coordination Committee and Technical Committee

APNIC ISIF Project –

Developing a Collaborative BGP Routing, Analyzing and Diagnosing Platform

Sept 29, 2022

Outline

- **Brief Report of the Project Progress**
- **Current Status of the Partners Engagement in this Project**
- **The Draft Plan of the Collaboration and Event in the Future**
- **The Draft Plans of Knowledge Sharing I(Nov/Dec) &II(Apr/May)**
- **Funding Status**
- **The Solutions to the Long-Term Plan after APNIC ISIF Project**
- **Brief Report of the Technical Committee**

The Project Technical Work Progress

Objectives	Detail work	Status
Build a collaborative community for enhancing the capacity of NRENs' network operation and measurement	Setting up project website	Finished in May
	Collaborative Work	See the next slides
	Platform development and deployment	See below
Establish a distributed BGP routing monitoring platform and a looking glass platform in the Asia-Pacific region	BGP Routing Information Sharing	13 partners
	Looking Glass Platform	6 partners
	Tools for operator(dashboard, routing path search, register and alarm email)	Partially done, still needs improvement
Deploy a BGP hijacking detection and mitigation system and analyze the robustness of routing in the Asia-Pacific region	Development of prefix hijacking detection	Partially done, still need improvement
	Development of path hijacking detection	Oct – next June
	Research Paper: region resilience	The draft will be discussed in Oct
	Research Paper: routing hijacking detection	The draft will be discussed in Nov/Dec
Share knowledge and experience globally	RPKI, MANRS, BGPSEC, etc.(tbd)	Nov/Dec, next Apr/May
	paper, technical document	Keep updating

Partner Engagement in the Project during the Past 7 Months

APNIC ISIF Activity Document Feb.24, 2022 - Sep.23, 2023										
Partner	Kick-off	1st Bilateral	1st Joint	2nd Tech	3rd Tech	BGP session	Routing WG	APAN53	APAN54	2nd bilateral
AARNET		YES	YES							
APAN-JP	YES	YES	YES	YES	YES	YES	Gave a presentation	Joint Session	Joint Session	
BdREN	YES	YES	YES	YES	YES	YES				
CERNET	YES	YES	YES	YES	YES	YES	Attendance of monthly meeting			
DOST-ASTI	YES	YES	YES							
ERNET	YES	YES	YES		YES					
Gottingen	YES			YES						
HARNET	YES	YES	YES	YES	YES	YES				
ITB		YES	YES	YES	YES	YES				
KREONET		YES	YES			YES				
LEARN	YES	YES	YES	YES	YES	YES				
MYREN	YES	YES	YES	YES	YES	YES				
NREN										YES
PERN			YES	YES		YES				YES
REANNZ		YES	YES	YES	YES	YES				
SingAREN	YES	YES	YES	YES	YES	YES				
Surrey	YES	YES		YES	YES					
ThaiREN	YES	YES	YES	YES	YES	YES				
TransPAC		YES	YES			YES				

Draft Plan of Future Collaboration and Events

Work	Description	Tentative Schedule
Collaboration	Invite more NRENs	Oct - Dec
	Invite commercial ISPs	
	Keep close collaboration with GNA-G/APAN Routing WG	
	Seek collaboration with RIPE Routing WG	
Events	Online Knowledge Sharing I – RPKI & MANRS	Nov/Dec
	A Physical Meeting at APAN55 or in China	Mar/Apr/May
	Online Knowledge sharing II — BGPSEC or any other topics (TBD)	Apr/May
Research	Research Paper Discussion	Nov/Dec
Regular Meetings and Joint meetings	The 2nd and 3rd round of Bilateral Meetings	Oct –Nov, May-June
	The Technical Committee Meetings	Monthly
	3 rd and 4 th Joint Committee Meeting, Closing Meeting	Jan/Feb, Apr/May, Aug
	Joint Sessions with GNA-G/APAN Routing WG and Possibly with RIPE Routing WG	TBC

The Draft Plan of Online Knowledge Sharing I & II

	Knowledge Sharing I (Nov/Dec)	Schedule
Training		
RPKI	Trainers will be invited from APNIC and NSRC, or experienced NRENs. The structure of the training courses and detailed arrangement will be discussed with the trainers and the project partners in October.	2-hour
MANRS		2-hour
Experience Sharing		
RPKI	Experienced NRENs will be invited, including AARNET, APAN-JP, REANNZ, ???	2-hour
MANRS		2-hour
	Knowledge Sharing II (Apr/May)	
BGPSEC?	More details will be discussed by the end of this year.	

APNIC ISIF Project Funding

Consolidated Budget

	ISIF Asia Impact Grant	Applicant's in-kind contribution	Remarks
Training session (one-day offline) / backup plan	46,680		The costs associated with engagement conducted by the project team internationally (including travel)
Professional development and collaborative work	72,000		The costs associated with training and professional development for the staff project team
Support Services Fees	31,320		This cost is related to hosting, translation, office supplies, tax, administration fee, website, and so forth.
Human Resources of Project Coordination Committee/technical support/Secretariat		41,700	The cost of project management work conducted by the project coordination team members in China will be covered by Chinese funding resources, including 'Joint IPv6 Project'.
The regular participation of the 12 international partner organization (listed in 'Joint IPv6 Project')		10,800	The 12 international partner organizations listed in 'Joint IPv6 Project' could get half financial support from 'Joint IPv6 Project' funding for their regular participation in ISIF proposal activities.
The service fee of cloud server		9,000	This cloud server will be used for this ISIF grant proposal for 18 months, the service fee is around 9,000USD (500USD/month x 18 months).
The travel expenses of one-day offline event for 4 Chinese team members		8,160	This will be covered by 'Joint IPv6 Project'.
Total	150,000	69,660	

Budget for Professional Development and Collaborative Work

--- APNIC ISIF Funding USD\$72,000

	Expertise Expenses (USD)	Regular Activity Expenses (USD)	System Deployment/Test (USD)	Research and Collaborative Work	
Kick-off Meeting and Related Work	1200	2040	0	0	
Bilateral Meeting and Related Work	12000	0	0	0	
Technical Committee Meeting and Related Work	12000	20400	0	0	
Coordination Committee Meeting	7200	8160	0	0	
Project Closing and Related Work	1200	2040	0	0	
BGP Platform Deployment/Test	0	0	10000	0	
Looking Glass Deployment/Test	0	0	10000	0	
				15000	
Total	33600	32640	20000	15000	101240
			500USD/each NREN/platform		
APNIC ISIF Funding	72,000				
Tsinghua Contribution	29,240	10,800 (included in the proposal to APNIC Foundation as in-kind contribution)			
More partners will be invited	More funding supported by Tsinghua University				

The payment will be sent to partners based on 9-month activities.
We will discuss the best way to transfer funds with individual partner organizations.

The Long-Term Plan after APNIC ISIF Project

APNIC ISIF --- Aug.23, 2023

The work of securing future project funding will start in the next few months.

Tsinghua will support 2-3 more years if additional project funding is not in place by next August.

Brief Report of the Technical Committee