

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

**APNIC ISIF Project –
Developing a Collaborative BGP Routing Analyzing and Diagnosing Platform**

Sep.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**
- **The 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 need 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 |

The Partners 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 | | | | |
| | | | | | | | Attendance of monthly meeting | | | |
| CERNET | YES | YES | YES | YES | YES | YES | | | | |
| 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 | | | | |

The Draft Plan of the Future Collaboration and Events

| Work | Description | Tentative Schedule |
|-------------------------------------|--|-----------------------|
| Collaboration | Invite more NRENs | Oct - Dec |
| | Invite the 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 | The 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 Oct. | 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 | |

The Budget for Professional Development and Collaborative Work --- APNIC ISIF Funding 72,000USD

| | 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.

The way of sending payment will be figured out by communicating with 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. And Tsinghua will support 2-3 more years if the project funding is not in place in next August.

The Brief Report of the Technical Committee