



THE GOVERNMENT OF ST CHRISTOPHER AND NEVIS

Ministry of Information, Communications, Technology and Posts

P.O BOX 186,

National ICT Center, #3 C. A. Paul Southwell Industrial Site

Basseterre, Saint Kitts

TEL: (869) 465- 2521 ext 467-1281/1607 EMAIL: technology@gov.kn

Ministry of Information, Communications, and Technology and Posts

Job Description

Job Title: IXP Peering Coordinator

Work Location: National ICT Center, C.A.P. Southwell Industrial Site

Division/Department: Department of Technology

Reports to: Director of Technology

Full-time
 Part-time

Description of Post:

The role of the IXP Peering Coordinator is to establish and effectively manage the St. Kitts and Nevis Internet Exchange Point (SKNIX) and the relationship among the peering parties in accordance with the Peering Agreement and Memorandum of Understanding (MOU). This is performed to maximize efficiency and minimize interconnect costs of peering and ensure robust, secure, and fast transit connections.

The role of IXP Peering Coordinator is the person that negotiates peering, shepherd's peers through the peering process of their organization and represents their organization interests as they traverse the peer's peering processes. After peering is established, the peering coordinator maintains the relationship with the peers through upgrades, expansions, reconfigurations, and terminations. To the peering community, the Peering Coordinator is the face of the organization for matters related to interconnections.

The IXP Peering coordinator will be required to attend peering forums, speaks at conferences about interconnection techniques, technologies, and operations activities. etc. This multidisciplinary job crosses the boundaries of network architecture, technical (routing),

business (making the business case), public speaking and legal (negotiating contracts). This job therefore requires a mix of skill sets to be executed effectively.

Duties and Responsibilities for the post include but are not limited to the following:

- Monitor the network, troubleshoot and resolve network problems.
- Perform daily Infrastructure monitoring and updates.
- Solicit of new IXP participants
- Complete regular physical equipment checks in the server room and resolve hardware and operating system issues.
- Install, configure, and maintain network equipment including routers, proxy servers, switches, DNS and DHCP
- Manage the UPS power supply to ensure that there is uninterruptible power supply available for the servers, switches, and security appliances in event of loss of main power supply to mitigate any disruption of services and damage to ICT equipment.
- Configure firewalls, routing and switching to maximise network efficiency and security.
- Design and maintain hardware layouts.
- Arrange scheduled upgrades for servers, systems, security appliances, UPS and any other related devices.
- Perform maintenance software and hardware updates.
- Create and maintain documentation for configuration of equipment.
- Develop and update the Peering strategy, policies, standards, and protocols in accordance with the SKNIX Memorandum of Understanding (MOU)
- Manage the IXP room including perform audit of logs, security, and traffic performance to ensure 99.999% uptime and that there is low level of latency on the network.
- Register all peering parties and create schedule to manage physical and logical access to the SKNIX room and ICT equipment to facilitate regular system maintenance by peering parties.
- Manage critical infrastructure including Root Servers, BGP looking glass, and Speed Test Servers
- Use of automation tools for infrastructure documentation
- Schedule the operational and IXP development meetings
- Engage in discussions and engagement on matters of Content Delivery Networks
- Perform Contract reviews and liaise with the Office of the Attorney General to obtain legal opinion and guidance on all contracts / agreements.
- Ensure that appropriate Cybersecurity protocols and practices are implemented on the IXP.

- Monitor and record any occurrence of Cyberattacks or threats and liaise with the Cybersecurity Coordinator or lead person to ensure rapid response and mitigative and corrective actions are taken to avert breaches of security.
- Create promotional material, host consultations, meetings, and events to increase the utilisation of the SKNIX as a national public infrastructure and for hosting of web applications, delivery of digital services, content hosting, caching, and learning platforms.
- Generate monthly reports for IXP peers.
- Represent the Department of Technology at meetings, conferences and events pertaining to Internet Exchange Points
- Liaise with regional and international organisations such as ICANN, ARIN, CARINOG, CARPIF and related organisations on matters of Internet Exchange Points and .KN Domain Registration
- Any other duties assigned by the Director of Technology

Education and/or Experience:

The Applicant must have the following skills:

- A bachelor's degree in Telecommunication, Information Technology, Computer science, Network engineering or equivalent related field
- At least five (5) years of experience in network maintenance and user technical support
- A+, Network +, and or similar certifications or equivalent
- At least a CCNA certification or equivalent skill set
- Fundamental knowledge of monitoring tools

Skills and Competencies

Technical Skills:

- UNIX
- LAN/WAN protocols
- Good understanding of Internet protocols (IPv4, IPv6, and BGP)
- Knowledge of security devices including firewalls
- Technical Writing skills
- Basic understanding of network control principles, theories, concepts, and technologies
- Experience working in network operations at an ISP is recommended.

Interpersonal Skills:

- Good People skills
- Strong problem-solving skills
- Good business acumen
- Good communication skills – both written and verbal

- Strong documentation skills
- Ability to negotiate.

Salary: K33- 38 (\$59,340 - \$72,936) per annum

The deadline for the receipt of application is **February 9th, 2024.**

Please send applications to:

**Permanent Secretary
Ministry of Information, Communications, and Technology
P O BOX 186,
NATIONAL ICT CENTER, #3 C. A. PAUL SOUTHWELL INDUSTRIAL SITE
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