JOB DESCRIPTION

GENERAL SUMMARY

- Purchase and coordinate the installation of all network equipment, power and services necessary to support new installations and growth for CDS applications. Tier 1 and 2 network applications include the following: Mobile Instant Messaging (MIM, Wireless Access Protocol (WAP), Service Profile Controller (SPC) and other applications that are added during the year.
- Provide equipment engineering support for multiple platform elements and services for the above listed applications.
- Perform project management responsibilities and lead the installation, acceptance, signoff and cutover of equipment with the National Network Operations (NNO) groups; Planning, Maintenance Engineering, Transport, Provisioning, Data Mediation, Regional Operations, Engineering, Security and Network Compliance teams and other organizations.
- Serve as the main point of contact for regional engineering and operations personnel regarding the growth and new installations of NNO Commercial Data Systems (CDS) equipment. Build and maintain relationships and positive rapport with several regions across multiple states to facilitate implementation of projects transparent to the network.
- Work with planning organizations, and the regions to develop and implement strategies and tactical plans for ensuring sufficient network capacity of NNO platforms.
- Provide direction for multiple vendors. Work with internal Verizon Wireless groups to develop and complete design, sizing and call flow models to ensure platforms being installed will meet performance, capacity and security requirements.
- Effectively manage vendors and consultants. Work with vendors to obtain quotes, negotiate pricing, and ensure their products and services meet Verizon Wireless requirements and standards. Push back on vendors as appropriate if their products and/or services fail to meet Verizon Wireless expectations, including telecommunications guidelines and standards.
- Extensive business travel is required – predominantly inter-state/air travel. This may exceed 100,000 miles a year.
- Request authorization for funds, write Purchase Orders (PO's), and manage procurement activities using PeopleSoft Purchasing system. Ensure the value of the products and services received are in line with vendor pricing, PO's are in compliance with company procurement policies, and that invoices are paid on time.
- Monitor network parameters (subscriber growth, link utilization, CPU utilization, messages per second, message size, traffic load, etc.) and engineer systems accordingly. Size systems appropriately and prioritize work based on Key Performance Indicators (KPI's). Recommend alterations to development and design to improve quality of products and/or procedures.
- Work directly with the vendor(s) to determine Key Performance Indictors (KPI) and develop data collection strategies and tools for our VAP platforms.
- Work with the planning group and technical development to determine market forecasts and/or new product additions, in order to generate trending for growth projects.
- Work with vendor(s) for product roadmaps and discontinued availability (DA) dates, and new feature additions
- Create capacity verses demand charts every month for senior management, and planning.
- Work in partnership with the operations and maintenance engineering teams for the support of the production network.

PRINCIPAL DUTIES AND RESPONSIBILITIES

% Of Time | Duties and Responsibilities

35% | **Equipment/Network Engineering:**
Individual will perform network and equipment engineering support for NNO VAP applications and hardware.
1. Coordinate the installation of network equipment, power and professional services necessary to support new installations and growth of the NNO applications. The NNO equipment engineer position is unique compared to other equipment engineer positions throughout the regions in several aspects:
   a. Must have extensive engineering and design expertise for "one of a kind" or new to the wireless industry platforms. The platforms vary in technology, brand and support.
   b. Individual must interface with multiple vendors, project teams and resources

depending on the platform. This includes the knowledge of various policies, procedures and technical requirements for each of the vendors and platforms.

    c. Individual is responsible for large geographic areas. NNO equipment is spread throughout the USA. This requires frequent overnight travel.

    d. Individual makes important decisions without guidance from their manager on a weekly basis regarding equipment capacity.

    e. Devises tactical plans for new equipment installations and handles a wide variety of functions, rather than merely executing routine tasks for older, well-defined platforms. Individual is a self starter and takes initiative to address important issues outside of normal areas of responsibilities.

2. Works with regional personnel for space, power and network connectivity for new equipment installations and/or equipment moves.

    a. Perform site walk through with vendor and regional personnel to identify needs for equipment installation.

    b. Provide regional personnel with space, power and heat dissipation requirements for equipment being installed.

    c. Work with vendors and regional personnel for cross connects and other connectivity needs.

    d. Monitor production equipment for system performance to ensure it meets vendor SLAs

    e. Open Network Service Requests (NSR) with network information to open firewalls and create routing paths through the network for equipment integration. Need to understand network protocols, DNS, IP addressing and Network Address Masks.

    f. Work in partnership with Operations and Maintenance Engineering teams for support of the production network elements.

20%   **Traffic Engineering:**

Individual will create monthly capacity verses demand for NNO VAP applications for network elements under their supervision.

1. Ensure sufficient network capacity, by creating capacity verses demand charts to meet engineering thresholds
2. Works with NNO planning, vendors, operations and maintenance engineering to stay ahead of the capacity demands for the NNO platforms.
3. Provide system engineering input for future growth forecasting and planning.
4. Works with NNO planning for marketing forecasts and new feature offerings to ensure network capacity can be met.

25%   **Project Management:**

Individual will provide project management support for equipment installations under their supervision.

1. Coordinate installation of equipment while leading cross functional teams.
2. Build detailed project plans and run weekly status calls with cross functional teams.
3. Create project documentation templates
4. Support team mates when resource conflicts arise
5. Work with vendor to coordinate schedules and resources

5%   **Vendor Management:**

Individual will work with the vendor in regards of KPIs, system performance, roadmaps, installations, SLAs, and development of project needs.

1. Will work closely with the vendor to ensure platforms meet agreed upon system performance and KPI.
2. Host bi-yearly performance meetings with the vendor, planning, operations, and maintenance engineering personnel for planning, budgetary and roadmap planning.
3. Work with the vendor directly for all feature enhancements to application or hardware that might impact system/network capacity.
4. Work directly with vendor for product roadmaps and discontinued availability (DA) dates.

10%   **Purchasing:**

Individual must keep meticulous records in order to meet the Sarbanes Oxley and Accounts Payable policies and procedures. Must track capital dollars from start to finish for each project and keep management informed. Must comply with all aspects of the purchase order process mandated by company policy and procedures.

1. Obtain vendor quotes and negotiate pricing for NNO VAP equipment hardware, software, and licenses.
2. Request approval for funding and set up project IDs for individual installations.
3. Generate purchase orders and coordinate delivery and implementation schedules.
4. Obtain documentation pertaining to delivery and installation of equipment.
5. Obtain vendor invoice and create package for Accounts Payable.
6. Create PDF file of completed package for uploading on the engineering document storage server, once the invoice has been approved for payment.
7. Will perform periodic review of project ID's and sweep any overage out and reallocate

funds as appropriate.

8. Develops capital spending plan for NNO applications assigned to them, submits and tracks funding requests and works closely with manager to ensure it is in line with the team's monthly budget projections.

5% **Relationships:**

Individual will establish and maintain positive relationship with cross functional and regional personnel.

1. Interface with Engineering and Operations Directors and Managers, to negotiate for MSC/NEC space and power to install NNO platforms.
2. Excellent communication and presentation skills.
3. Ability to tactfully handle difficult situations when managing projects with regional representatives.
4. Follow through on assigned tasks.

KNOWLEDGE, SKILLS AND ABILITIES

To be successful and excel in this position, candidates should have the following qualifications.

Experience:

- Minimum of 5 years telecommunications and network engineering experience.

Other:

- Familiarity with hardware and equipment installations preferred.
- Project management experience, with strong leadership skills and ability to drive teams to consensus.
- Must be cool under pressure and not get shaken while engineering platforms that impact millions of customers.
- Experience with PeopleSoft Purchasing system.
- Working knowledge of X^{ng}.
- Ability to learn new technology quickly and apply working knowledge of wireless engineering on new projects.
- Must be self-motivated, show initiative, and be able to work independently.
- Strong interpersonal and communications skills needed.
- Need to be highly productive and pay close attention to detail.
- Familiarity with engineering and engineering economic principles preferred.
- Knowledge of databases, Excel, web-based applications, and software tool packages.
- Knowledge of Solaris and HP Unix
- Knowledge of Red Hat
- Knowledge of Oracle and SQL
- Knowledge of Network protocols, DNS, IP and Netmask
- Valid driver's license required.

EDUCATION AND CERTIFICATIONS

Education: BS degree in engineering, computer science, or equivalent experience is recommended.

Certifications: No certifications are required.