



Network Specialist

CLASS TITLE	CLASS CODE	SALARY GROUP	SALARY RANGE
NETWORK SPECIALIST I	0287	B17	\$42,976 - \$64,469
NETWORK SPECIALIST II	0288	B19	\$48,244 - \$76,028
NETWORK SPECIALIST III	0289	B21	\$54,278 - \$87,046
NETWORK SPECIALIST IV	0290	B23	\$61,184 - \$99,658
NETWORK SPECIALIST V	0291	B25	\$69,572 - \$114,099
NETWORK SPECIALIST VI	0292	B27	\$84,182 - \$142,374

GENERAL DESCRIPTION

Performs network systems work involving the implementation, maintenance, and monitoring of local area networks, wide area networks, Internet or intranet systems, and network segments.

DISTINGUISHING CHARACTERISTICS

The Network Specialist job classification series is intended for employees who are responsible for the planning, design, development, maintenance, and operation of the agency's network systems. This includes designing, configuring, troubleshooting, and maintaining the local area and wide area networks, including routers, switches, gateways, and applications servers. In contrast, the Telecommunications Specialist job classification series does not focus on network systems; rather, employees in that series are responsible for the configuration and repair of telecommunications infrastructure. Those employees typically install and repair voice, data, digital, wireless, and video telecommunications systems to ensure reliable operation.

EXAMPLES OF WORK PERFORMED

Performs network startup and shutdown procedures; maintains control records.

Monitors the status of the network to ensure that all devices are working properly.

Performs tuning and capacity planning activities to enhance the performance of network resources.

Gathers data pertaining to customers' needs and uses information to identify, predict, interpret, and evaluate system and network requirements.

Installs, tests, and maintains network hardware and software; analyzes network utility and availability.

Maintains the network's physical and logical structures, including network connections.

Maintains network support software, analyzes user support statistics, and recommends appropriate measures.

Performs related work as assigned.

DESCRIPTION OF LEVELS

Examples of work and descriptions are meant to progress through the levels. For example, an employee at level VI may also perform work listed within the previous levels.

Note: *Factors that may distinguish between entry and journey levels include the degree of independence in performing the work and the complexity of the work and may include the employee's years of related experience, education, and certifications. Employees at the journey levels may independently perform the full range of work listed in the examples or may assist others in that work.*

NETWORK SPECIALIST I: Performs entry-level network systems work. Works under close supervision, with minimal latitude for the use of initiative and independent judgment. Employees at this level may have limited experience or no experience and spend the majority of their time performing simple to routine work following standard procedures.

NETWORK SPECIALIST II: Performs routine (journey-level) network systems work. Works under moderate supervision, with limited latitude for the use of initiative and independent judgment. Employees at this level may rely on direction from others to solve problems that are not standard. Employees may also assist other staff in performing work of greater complexity and may maintain the operating system and security software used on the network, add new users to the network, and establish rights and privileges.

NETWORK SPECIALIST III: Performs complex (journey-level) network systems work. Works under general supervision, with moderate latitude for the use of initiative and independent judgment. Employees at this level may work more independently than those at the previous levels and may routinely assist other staff in performing work of greater complexity. Employees may:

- Monitor the performance of backup, recovery, and the archival of files stored on the network.
- Maintain the local area or wide area network, Internet or intranet, cable and hub installations, and inventories.
- Interpret and solve problems when a user or an automated monitoring system indicates that a problem exists.
- Detect, anticipate, and mitigate network system vulnerabilities.

Note: *A senior-level employee (levels IV-VI) may serve in a lead or supervisory role; however, supervisory responsibilities within this job classification series will normally be found at levels V and VI.*

A senior-level employee may perform the full range of work identified in the preceding levels and may coordinate, evaluate, or oversee that work for others. Factors that may distinguish between senior levels include the scope of responsibility and oversight, the size and complexity of network projects, and the employee's related experience, education, and certifications.

NETWORK SPECIALIST IV: Performs highly complex (senior-level) network systems work. Works under limited supervision, with considerable latitude for the use of initiative and independent judgment. Employees at this level may:

- Coordinate and/or design and maintain local area network implementations.
- Monitor network security, including registering users and installing firewalls.
- Monitor the operational network environment and take corrective measures to ensure efficient performance.
- Design or coordinate the designing of the procedures necessary to save and recover local area or wide area network environments from hardware and software failures.

NETWORK SPECIALIST V: Performs advanced (senior-level) network systems work. Works under minimal supervision, with considerable latitude for the use of initiative and independent judgment. Employees at this level may independently perform the most complex network specialist work and may:

- Oversee and/or conduct major studies regarding system usage, make recommendations for improvements, and determine network system requirements.
- Review network system plans for completeness and accuracy, and plan and schedule network studies and system implementations.
- Analyze existing network and system procedures for efficiency and effectiveness.
- Analyze and define agency disaster recovery responsibilities and procedures.

NETWORK SPECIALIST VI: Performs highly advanced and/or supervisory (senior-level) network systems work. Works under minimal supervision, with extensive latitude for the use of initiative and independent judgment. Employees at this level may be considered technical experts in the field and may:

- Monitor and define the requirements of the overall security of the enterprise network.
- Prepare budget recommendations for network facilities, analyze user support statistics, and implement appropriate measures.
- Manage multiple projects occasionally, and/or manage some of the most complex network projects, including those involving highly complex planning, designing, and integrating of local area or wide area network, Internet and intranet systems, and other data networks.

GENERAL QUALIFICATION GUIDELINES

EXPERIENCE AND EDUCATION

Experience and/or education in a field relevant to the work being performed. Agencies have the discretion to identify the general or specialized experience, education, or certifications required for positions and may tailor qualification requirements to be specific and meet the agency's business needs. Agencies also may substitute experience and education for one another, if appropriate and allowed by statute.

KNOWLEDGE, SKILLS, AND ABILITIES

For all levels

- Knowledge of network facilities and data processing techniques, personal computer hardware and software, network operating system and security software, and performance monitoring and capacity management tools.
- Skill in using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.
- Ability to recognize, analyze, and resolve specific network problems; and to communicate effectively.

Additional for Network Specialist IV - VI levels

- Ability to oversee and/or supervise the work of others.