

Chapter 19

System Management Configuration Statements

To configure system management, you can include the following statements in the configuration:

```
system {
  accounting {
    events [ login change-log interactive-commands ];
    destination {
      tacplus {
        server {
          server-address {
            port port-number;
            secret password ;
            single-connection;
            timeout seconds;
          }
        }
      }
    }
  }
  archival {
    configuration {
      archive-sites {
        ftp://<username>:<password>@<host>:<port>/<url-path>;
      }
      transfer-interval interval;
      transfer-on-commit;
    }
  }
  authentication-order [ authentication-methods ];
  backup-router address <destination destination-address>;
  building name;
  (compress-configuration-files | no-compression-configuration-files);
  default-address-selection;
  dump-device (compact-flash | remove-compact | usb);
  diag-port-authentication (encrypted-password "password" |
    plain-text-password);
}
```

```

diag-port-authentication {
  disable;
  maximum-hop-count;
  minimum-wait-time seconds;
  server [ address ];
  interface interface-group {
    no-listen;
    maximum-hop-count;
    minimum-wait-time seconds;
    server [ address ];
  }
}
domain-name domain-name;
domain-search [ domain-list];
host-name host-name;
internet-options address <destination destination-address>;
internet-options {
  path-mtu-discovery;
  source-port upper-limit <upper-limit>;
  source-quench;
}
location {
  altitude feet;
  building name;
  country-code code;
  floor number;
  hcoord horizontal-coordinate;
  lata service-area;
  latitude degrees;
  longitude degrees;
  npa-nxx number;
  postal-code postal-code;
  rack number;
  vcoord vertical-coordinate;
}
login {
  message text;
  class class-name {
    allow-commands "regular-expression";
    allow-configuration "regular-expression";
    deny-commands "regular-expression";
    deny-configuration "regular-expression";
    idle-timeout minutes;
    no-tip;
    permissions [ permissions ];
  }
  user username {
    full-name complete-name;
    uid uid-value;
    class class-name;
    authentication {
      (encrypted-password "password" | plain-text-password);
      ssh-rsa "public-key";
      ssh-dsa "public-key";
    }
  }
}
}

```

```

max-configurations-on-flash number;
mirror-flash-on-disk;
name-server {
    address;
}
no-redirects;
ntp {
    authentication-key key-number type type value password;
    boot-server address;
    broadcast <address> <key key-number> <version value> <ttl value>;
    broadcast-client;
    multicast-client <address>;
    peer address <key key-number> <version value> <prefer>;
    source-address source-address;
    server address <key key-number> <version value> <prefer>;
    trusted-key [ key-numbers ];
}
ports {
    auxiliary {
        type terminal-type;
    }
}
pic-console-authentication {
    encrypted-password encrypted-password;
    plain-text-password;
    console {
        insecure;
        log-out-on-disconnect;
        type terminal-type;
    }
}
processes {
    disk-monitoring (enable | disable);
    inet-process (enable | disable) failover (alternate-media |
        other-routing-engine);
    interface-control (enable | disable) failover (alternate-media |
        other-routing-engine);
    mib-process (enable | disable) failover (alternate-media |
        other-routing-engine);
    ntp (enable | disable) failover (alternate-media | other-routing-engine);
    routing (enable | disable) failover (alternate-media | other-routing-engine);
    snmp (enable | disable) failover (alternate-media | other-routing-engine);
    watchdog (enable | disable) failover (alternate-media | other-routing-engine)
        timeout seconds;
}
radius-server server-address {
    port number;
    retry number;
    secret password;
    source-address source-address;
    timeout seconds;
}
root-authentication {
    (encrypted-password "password" | plain-text-password);
    ssh-rsa "public-key";
    ssh-dsa "public-key";
}

```

```

(saved-core-context | no-saved-core-context);
saved-core-files saved-core-files;
services {
  finger {
    <connection-limit limit>;
    <rate-limit limit>;
  }
  ftp {
    <connection-limit limit>;
    <rate-limit limit>;
  }
  service-deployment {
    servers server-address {
      port port-number;
    }
    source-address source-address;
  }
  ssh {
    root-login (allow | deny | deny-password);
    protocol-version [v1 v2];
    <connection-limit limit>;
    <rate-limit limit>;
  }
  telnet {
    <connection-limit limit>;
    <rate-limit limit>;
  }
  xnm-clear-text {
    <connection-limit limit>;
    <rate-limit limit>;
  }
  xnm-ssl {
    <connection-limit limit>;
    local-certificate name;
    <rate-limit limit>;
  }
}
static-host-mapping {
  host-name {
    alias [ alias ];
    inet [ address ];
    sysid system-identifier;
  }
}
syslog {
  archive {
    files number;
    size size;
    (world-readable | no-world-readable);
  }
  console {
    facility severity;
  }
}

```

```

file filename {
    facility severity;
    explicit-priority;
    archive {
        files number;
        size size;
        (world-readable | no-world-readable);
    }
}
host (hostname | other-routing-engine | scc-master) {
    facility severity;
    explicit-priority;
    facility-override facility;
    log-prefix string;
}
source-address source-address;
time-format (year | millisecond | year millisecond);
user (username | *) {
    facility severity;
}
}
tacplus-options service-name service-name;
tacplus-server server-address {
    secret password;
    single-connection;
    source-address source-address;
    timeout seconds;
}
time-zone time-zone;
}

```

