```
pyang ietf-system@2013-11-07.yang ietf-interfaces@2013-07-04.yang \
      ietf-ip@2013-10-18.yang opencpe-system@2014-01-09.yang \
      opencpe-firmware-mgmt@2014-01-20.yang \
      --features ietf-system:authentication,local-users,timezone-location,\
        crypt-hash-md5,crypt-hash-sha-256,crypt-hash-sha-512,ntp \
      --features opencpe-firmware-mgmt:firmware-slots,firmware-download-ftp,\
        firmware-download-http,firmware-download-https,firmware-download-scp \
      --deviation-module opencpe-deviations@2014-01-12.yang \
      -f tree

module: ietf-system
   +--rw system
   |  +--rw contact?          string
   |  +--rw hostname?         inet:domain-name
   |  +--rw location?         string
   |  +--rw clock
   |  |  +--rw (timezone)?
   |  |     +--:(timezone-location) {timezone-location}?
   |  |     |  +--rw timezone-location?     ianatz:iana-timezone
   |  |     +--:(timezone-utc-offset)
   |  |        +--rw timezone-utc-offset?   int16
   |  +--rw ntp! {ntp}?
   |  |  +--rw enabled?   boolean
   |  |  +--rw server* [name]
   |  |     +--rw name     string
   |  |     +--rw (transport)
   |  |        +--:(udp)
   |  |           +--rw udp
   |  |              +--rw address     inet:host
   |  +--rw dns-resolver
   |  |  +--rw search*     inet:domain-name
   |  |  +--rw server* [name]
   |  |  |  +--rw name           string
   |  |  |  +--rw (transport)
   |  |  |     +--:(udp-and-tcp)
   |  |  |        +--rw udp-and-tcp
   |  |  |           +--rw address     inet:ip-address
   |  |  +--rw options
   |  |     +--rw timeout?     uint8
   |  |     +--rw attempts?    uint8
   |  +--rw authentication {authentication}?
   |     +--rw user-authentication-order*   identityref
   |     +--rw user* [name] {local-users}?
   |        +--rw name         string
   |        +--rw password?   crypt-hash
   |        +--rw ssh-key* [name]
   |           +--rw name         string
   |           +--rw algorithm    string
   |           +--rw key-data     binary
   +--ro system-state
      +--ro platform
      |  +--ro os-name?                       string
      |  +--ro os-release?                    string
      |  +--ro os-version?                    string
      |  +--ro machine?                       string
      |  +--ro ocpes:serial-number?           string
      |  +--ro ocpe-fw-mgmt:firmware-version?   string
      +--ro clock
```

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         |  +--ro current-datetime?   yang:date-and-time
         |  +--ro boot-datetime?      yang:date-and-time
         +--ro ocpe-fw-mgmt:firmware-slot* [name] {firmware-slots}?
         |  +--ro ocpe-fw-mgmt:name       string
         |  +--ro ocpe-fw-mgmt:version?   string
         |  +--ro ocpe-fw-mgmt:active?    boolean
         |  +--ro ocpe-fw-mgmt:path?      inet:uri
         +--ro ocpe-fw-mgmt:firmware-job*
            +--ro ocpe-fw-mgmt:job-id?          int32
            +--ro ocpe-fw-mgmt:install-target?  leafref {firmware-slots}?
            +--ro ocpe-fw-mgmt:status
               +--ro ocpe-fw-mgmt:status?    enumeration
               +--ro ocpe-fw-mgmt:percent?   int32
  rpcs:
    +---x set-current-datetime
    |  +--ro input
    |     +--ro current-datetime    yang:date-and-time
    +---x system-restart
    +---x system-shutdown
module: ietf-interfaces
   +--rw interfaces
   |  +--rw interface* [name]
   |     +--rw name                         string
   |     +--rw description?                 string
   |     +--rw type                         identityref
   |     +--rw enabled?                     boolean
   |     +--rw link-up-down-trap-enable?    enumeration {if-mib}?
   |     +--rw ip:ipv4!
   |     |  +--rw ip:enabled?       boolean
   |     |  +--rw ip:forwarding?    boolean
   |     |  +--rw ip:mtu?           uint16
   |     |  +--rw ip:address* [ip]
   |     |  |  +--rw ip:ip                 inet:ipv4-address-no-zone
   |     |  |  +--rw (subnet)
   |     |  |     +--:(prefix-length)
   |     |  |     |  +--rw ip:prefix-length?   uint8
   |     |  |     +--:(netmask)
   |     |  |        +--rw ip:netmask?         yang:dotted-quad
{ipv4-non-contiguous-netmasks}?
   |     |  +--rw ip:neighbor* [ip]
   |     |     +--rw ip:ip                 inet:ipv4-address-no-zone
   |     |     +--rw ip:link-layer-address    yang:phys-address
   |     +--rw ip:ipv6!
   |        +--rw ip:enabled?               boolean
   |        +--rw ip:forwarding?            boolean
   |        +--rw ip:mtu?                   uint32
   |        +--rw ip:address* [ip]
   |        |  +--rw ip:ip                 inet:ipv6-address-no-zone
   |        |  +--rw ip:prefix-length    uint8
   |        +--rw ip:neighbor* [ip]
   |        |  +--rw ip:ip                 inet:ipv6-address-no-zone
   |        |  +--rw ip:link-layer-address    yang:phys-address
   |        +--rw ip:dup-addr-detect-transmits?   uint32
   |        +--rw ip:autoconf
   |           +--rw ip:create-global-addresses?      boolean
   |           +--rw ip:create-temporary-addresses?   boolean
{ipv6-privacy-autoconf}?
   |           +--rw ip:temporary-valid-lifetime?     uint32
```

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{ipv6-privacy-autoconf}?
   |              +--rw ip:temporary-preferred-lifetime?   uint32
{ipv6-privacy-autoconf}?
   +--ro interfaces-state
      +--ro interface* [name]
         +--ro name                string
         +--ro type                identityref
         +--ro admin-status        enumeration {if-mib}?
         +--ro oper-status         enumeration
         +--ro last-change?        yang:date-and-time
         +--ro if-index            int32 {if-mib}?
         +--ro phys-address?       yang:phys-address
         +--ro higher-layer-if*    interface-state-ref
         +--ro lower-layer-if*     interface-state-ref
         +--ro speed?              yang:gauge64
         +--ro statistics
         |  +--ro discontinuity-time    yang:date-and-time
         |  +--ro in-octets?            yang:counter64
         |  +--ro in-unicast-pkts?      yang:counter64
         |  +--ro in-broadcast-pkts?    yang:counter64
         |  +--ro in-multicast-pkts?    yang:counter64
         |  +--ro in-discards?          yang:counter32
         |  +--ro in-errors?            yang:counter32
         |  +--ro in-unknown-protos?    yang:counter32
         |  +--ro out-octets?           yang:counter64
         |  +--ro out-unicast-pkts?     yang:counter64
         |  +--ro out-broadcast-pkts?   yang:counter64
         |  +--ro out-multicast-pkts?   yang:counter64
         |  +--ro out-discards?         yang:counter32
         |  +--ro out-errors?           yang:counter32
         +--ro ip:ipv4!
         |  +--ro ip:forwarding?   boolean
         |  +--ro ip:mtu?          uint16
         |  +--ro ip:address* [ip]
         |  |  +--ro ip:ip                inet:ipv4-address-no-zone
         |  |  +--ro (subnet)?
         |  |  |  +--:(prefix-length)
         |  |  |  |  +--ro ip:prefix-length?   uint8
         |  |  |  +--:(netmask)
         |  |  |     +--ro ip:netmask?         yang:dotted-quad
{ipv4-non-contiguous-netmasks}?
         |  |  +--ro ip:origin?           ip-address-origin
         |  +--ro ip:neighbor* [ip]
         |     +--ro ip:ip                inet:ipv4-address-no-zone
         |     +--ro ip:link-layer-address?   yang:phys-address
         |     +--ro ip:origin?           neighbor-origin
         +--ro ip:ipv6!
            +--ro ip:forwarding?   boolean
            +--ro ip:mtu?          uint32
            +--ro ip:address* [ip]
            |  +--ro ip:ip                inet:ipv6-address-no-zone
            |  +--ro ip:prefix-length     uint8
            |  +--ro ip:origin?           ip-address-origin
            |  +--ro ip:status?           enumeration
            +--ro ip:neighbor* [ip]
               +--ro ip:ip                inet:ipv6-address-no-zone
               +--ro ip:link-layer-address?   yang:phys-address
               +--ro ip:origin?           neighbor-origin
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               +--ro ip:is-router?            empty
module: opencpe-firmware-mgmt
rpcs:
  +---x firmware-download
  |  +--ro input
  |  |  +--ro (transport)?
  |  |  |  +--:(ftp) {firmware-download-ftp}?
  |  |  |  |  +--ro ftp!
  |  |  |  |     +--ro address    inet:uri
  |  |  |  +--:(http) {firmware-download-http}?
  |  |  |  |  +--ro http!
  |  |  |  |     +--ro address?   inet:uri
  |  |  |  +--:(https) {firmware-download-https}?
  |  |  |  |  +--ro https!
  |  |  |  |     +--ro address?   inet:uri
  |  |  |  +--:(scp) {firmware-download-scp}?
  |  |  |     +--ro scp!
  |  |  |        +--ro address?   inet:uri
  |  |  +--ro (credentials)?
  |  |  |  +--:(user-pass)
  |  |  |  |  +--ro user-pass!
  |  |  |  |     +--ro username?   string
  |  |  |  |     +--ro password?   string
  |  |  |  +--:(certificate)
  |  |  |  |  +--ro certificate!
  |  |  |  |     +--ro path?   string
  |  |  |  +--:(ssh-key)
  |  |  |     +--ro ssh-key!
  |  |  |        +--ro path?   string
  |  |  +--ro address            inet:uri
  |  |  +--ro install-target?   leafref {firmware-slots}?
  |  |  +--ro timeframe?        int32
  |  +--ro output
  |     +--ro job-id    int32
  +---x firmware-commit
  |  +--ro input
  |     +--ro job-id    int32
  +---x get-job-status
  |  +--ro input
  |  |  +--ro job-id    int32
  |  +--ro output
  |     +--ro job-id?           int32
  |     +--ro install-target?   leafref {firmware-slots}?
  |     +--ro status
  |        +--ro status?    enumeration
  |        +--ro percent?   int32
  +---x set-bootorder         {firmware-slots}?
     +--ro input
        +--ro bootorder*   leafref
```