```
pyang ietf-system@2014-04-04.yang ietf-interfaces@2013-12-23.yang\
      ietf-ip@2014-03-28.yang opencpe-system@2014-01-27.yang\
      opencpe-firmware-mgmt@2014-02-06.yang\
      --features ietf-system:authentication,local-users,timezone-name,ntp\
      --features
iana-crypt-hash:crypt-hash-md5,crypt-hash-sha-256,crypt-hash-sha-512\
      --features opencpe-firmware-mgmt:firmware-slots,firmware-download-ftp,\
firmware-download-http,firmware-download-https,firmware-download-scp\
      --features last-boot-status-report\
      --deviation-module opencpe-deviations@2014-05-13.yang\
      -f tree

module: ietf-system
   +--rw system
   |  +--rw contact?          string
   |  +--rw hostname?         inet:domain-name
   |  +--rw location?         string
   |  +--rw clock
   |  |  +--rw (timezone)?
   |  |     +--:(timezone-name) {timezone-name}?
   |  |     |  +--rw timezone-name?          timezone-name
   |  |     +--:(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?   ianach: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 ocpe-fw-mgmt:firmware-version?    string
```

```
    |  +--ro ocpes:serial-number?              string
    +--ro clock
    |  +--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:status-msg?   string
          +--ro ocpe-fw-mgmt:progress      percent
  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
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    |                +--rw ip:create-temporary-addresses?      boolean
{ipv6-privacy-autoconf}?
    |                +--rw ip:temporary-valid-lifetime?        uint32
{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
                    +--ro ip:is-router?              empty
module: opencpe-firmware-mgmt
rpcs:
  +---x firmware-download
  |  +--ro input
  |  |  +--ro address                     inet:uri
  |  |  +--ro (credentials)?
  |  |  |  +--:(password)
  |  |  |  |  +--ro password!
  |  |  |  |     +--ro password    string
  |  |  |  +--:(certificate)
  |  |  |  |  +--ro certificate!
  |  |  |  |     +--ro path    string
  |  |  |  +--:(ssh-key)
  |  |  |     +--ro ssh-key!
  |  |  |        +--ro path    string
  |  |  +--ro install-target             leafref {firmware-slots}?
  |  |  +--ro timeframe?                 int32
  |  |  +--ro retry-count?               uint8
  |  |  +--ro retry-interval?            uint32
  |  |  +--ro retry-interval-increment?   percent
  |  +--ro output
  |     +--ro job-id    int32
  +---x firmware-commit
  |  +--ro input
  |     +--ro job-id    int32
  +---x set-bootorder         {firmware-slots}?
     +--ro input
        +--ro bootorder*   leafref
```