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pyang ietf-system@2013-11-07.yang ietf-interfaces@2013-07-04.yang \
    ietf-ip@2013-10-18.yang opencpe-system@2014-01-27.yang \
    opencpe-firmware-mgmt@2014-01-27.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 \
    --features opencpe-system:firmware-slots,last-boot-status-report \
    --deviation-module opencpe-deviations@2014-01-12.yang \
    -f tree

```

module: ietf-system

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+--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?    intl6
|   +--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 ocps:serial-number? string
|   +--ro ocpe-fw-mgmt:firmware-version? string

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+--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? union
|   +--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
|       +--rw ip:create-temporary-addresses? boolean
|     {ipv6-privacy-autoconf}?

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|           +--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

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        +--ro ip:origin?          neighbor-origin
        +--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 retry-count?     uint8
| | +--ro retry-interval?  uint16
| | +--ro retry-interval-increment? percent
| +--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?    union
| | | +--ro progress?  percent
+---x set-bootorder      {firmware-slots}?
| +--ro input
| | +--ro bootorder*    leafref

```