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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 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 ocpe-fw-mgmt:firmware-version? string
|   +--ro ocpe:serial-number? 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 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
|     +--rw ip:create-temporary-addresses? boolean

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{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
+--ro ip: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

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```

        +--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 (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 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 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 status-msg? string
| | +--ro progress      percent
+---x set-bootorder      {firmware-slots}?
| +--ro input
| | +--ro bootorder*      leafref

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