DeviceAdminService API

DeviceAdminService API

Table of Contents

List of Examples

Glossary

Device Interface	This represents the external interface to a device.
Device Interface API	The API accepted by the device on its external interface
DeviceAdminService API	The API accepted by the device on its external interface for DeviceAdminService

Introduction

This document contains the description of the device interface API for deviceadmin services

Chapter 1. Discovery API

API Calls used in Discovery process

GetDevice

Returns the Device information in RAW format.

Example 1.1. GetDeviceRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='GET' requestName='Device'
 userJID='user@localhost/pc' requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
  <GetDeviceRequestData/>
 </Data>
</Request>
```

Example 1.2. GetDeviceResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='GET' requestName='Device'
 userJID='user@localhost/pc' requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
  <GetDeviceResponseData>
    <Device  title='' type='' state='' password='' ownerUserJID=''>
     <Groups />
      <DevicePrivateData />
      <TemplateNID />
      <PortList />
      <DeviceConfig> <!-- Device specific response --> </DeviceConfig>
      <DeviceStatus> <!-- Device specific response --> </DeviceStatus>
      <DeviceList />
    </Device>
  </GetDeviceResponseData>
 </Data>
</Response>
```

SetDeviceConfig

update the device with given config

- *Dirty: possible values are CLEAN/ADD/MODIFY/DELETE. (Applies the config only if Dirty!=CLEAN)*
  - CLEAN: No update required
  - ADD: Add given entry to table. Example: Adding a route to route table.
  - MODIFY: Modifies the given config. Example: Updating exiting route config
  - DELETE: Deletes the given entry from table. Example: deleting a route from route table

Example 1.3. SetDeviceConfigRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='SetDeviceConfig' userJID='user@localhost/pc'
 requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
     <SetDeviceConfigRequestData doNotSaveToFlash='true/false'>
      <DeviceConfig Dirty="CLEAN">
            <ServiceElementsConfig>
              <XMPPAgentServiceConfig Dirty="MODIFY">
               <Enable>true</Enable>
                <XMPPServer>0.0.0.0</XMPPServer>
                <DeviceName>xp2001</DeviceName>
                <DevicePassword>Ipvs1234</DevicePassword>
                <Domain>default</Domain>
                <ServiceDomain>default</ServiceDomain>
              </XMPPAgentServiceConfig>
              <NetworkElementsConfig>
                 <RouteTableConfig Dirty="MODIFY">
                   <RouteEntry Dirty="MODIFY" ListIndex="1">
                     <Destination>0.0.0.0</Destination>
                     <Netmask>0.0.0.0</Netmask>
                     <Gateway>192.168.1.1</Gateway>
                   </RouteEntry>
                 </RouteTableConfig>
                 <EthernetPortTableConfig>
                   <EthernetPortConfig Dirty="MODIFY" ListIndex="1">
                     <PortID>1</PortID>
                     <EnableInterface>true</EnableInterface>
                     <IsPrimary>true</IsPrimary>
                     <EnableMulticast>false</EnableMulticast>
                     <IPConfig>
                      <UseDHCP>false</UseDHCP>
```

```
                        <IPAddress>192.168.1.196</IPAddress>
                        <Netmask>255.255.0.0</Netmask>
                       </IPConfig>
                     </EthernetPortConfig>
                </EthernetPortTableConfig>
          </NetworkElementsConfig>
          </ServiceElementsConfig>
    </DeviceConfig>
   </SetDeviceConfigRequestData>
 </Data>
</Request>
```

Example 1.4. SetDeviceConfigResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='SetDeviceConfig' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
  <SetDeviceConfigResponse/>
 </Data>
</Response>
```

Chapter 2. DeviceConfig API

API Calls used to update Device Config From Clients/AppController or publish the Config to App Controller

GetDeviceConfig

Returns the Deviceconfig information

Example 2.1. GetDeviceConfigRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='GET'
 requestName='DeviceConfig' userJID='user@localhost/pc'
 requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
  <GetDeviceConfigRequestData/>
 </Data>
</Request>
```

Example 2.2. GetDeviceConfigResponse

Returns device configuration information

```
<Response>
 <Header serviceName='DeviceAdmin' type='GET'
 requestName='DeviceConfig' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
   <Data>
  <GetDeviceConfigResponseData>
   <DeviceConfig>
         <SystemElementsConfig Dirty="CLEAN">
             <!-- Choice of device specific  System Info -->
         </SystemElementsConfig>
         <ServiceElementsConfig Dirty="CLEAN">
            <!-- Choice of device specific  Services-->
         </ServiceElementsConfig>
         <NetworkElementsConfig Dirty="CLEAN">
            <!-- Network Config Common for all devices-->
```

```
          </NetworkElementsConfig>
           <StorageElementsConfig Dirty="CLEAN">
             <!-- Common for all DMS and MS Devices-->
          </StorageElementsConfig>
          <AVCodecElementsConfig Dirty="CLEAN">
             <!-- Choice of device specific  AVCodec Elements -->
          </AVCodecElementsConfig>
    </DeviceConfig>
   </GetDeviceConfigResponseData>
  </Data>
</Response>
```

PutDeviceConfig

update device with given config

Example 2.3. PutDeviceConfigRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='PUT'
 requestName='DeviceConfig' userJID='user@localhost/pc'
 requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
  <PutDeviceConfigRequestData/>
 </Data>
</Request>
```

Example 2.4. PutDeviceConfigResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='PUT'
 requestName='DeviceConfig' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
       <PutDeviceConfigResponse/>
    </Data>
</Response>
```

PostDeviceConfig

Use this call if you want to add a entry to table. For example, adding route table entry or adding new LUT

Example 2.5. PostDeviceConfigRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='POST'
 requestName='DeviceConfig' userJID='user@localhost/pc'
 requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
  <PostDeviceConfigRequestData/>
 </Data>
</Request>
```

Example 2.6. PostDeviceConfigResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='POST'
 requestName='DeviceConfig' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
       <PostDeviceConfigResponse/>
    </Data>
</Response>
```

DeleteDeviceConfig

Use this call if you want to delete a entry from table. For example, deleting route table entry or deleting LUT

Example 2.7. DeleteDeviceConfigRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='DELETE'
 requestName='DeviceConfig' userJID='user@localhost/pc'
 requestNID='1234'>
```

```
 <ClientData>cd123</ClientData>
 <ClientCallback></ClientCallback>
</Header>
<Data>
 <DeleteDeviceConfigRequestData/>
</Data>
 </Request>
```

Example 2.8. DeleteDeviceConfigResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='DELETE'
 requestName='DeviceConfig' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
       <DeleteDeviceConfigResponse/>
    </Data>
</Response>
```

SetDeviceConfig

Updates the given Configuration

- *Dirty: possible values are CLEAN/ADD/MODIFY/DELETE. (Applies the config only if Dirty!=CLEAN)*
  - CLEAN: No update required
  - ADD: Add given entry to table. Example: Adding a route to route table.
  - MODIFY: Modifies the given config. Example: Updating exiting route config
  - DELETE: Deletes the given entry from table. Example: deleting a route from route table
- *doNotSaveToFlash: (optional) if true it will not update the given configuration to flash. Default value is false*

Example 2.9. SetDeviceConfigRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='SetDeviceConfig' userJID='user@localhost/pc'
 requestNID='1234'>
```

```
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
       <SetDeviceConfigRequestData doNotSaveToFlash='true/false'>
       <DeviceConfig Dirty="CLEAN">
        <SystemElementsConfig Dirty="CLEAN">
           <!-- Choice of device specific  System Info -->
        </SystemElementsConfig>
        <ServiceElementsConfig Dirty="CLEAN">
           <!-- Choice of device specific  Services-->
        </ServiceElementsConfig>
        <NetworkElementsConfig Dirty="CLEAN">
           <!-- Network Config Common for all devices-->
        </NetworkElementsConfig>
         <StorageElementsConfig Dirty="CLEAN">
           <!-- Common for all DMS and MS Devices-->
        </StorageElementsConfig>
        <AVCodecElementsConfig Dirty="CLEAN">
           <!-- Choice of device specific  AVCodec Elements -->
        </AVCodecElementsConfig>
    </DeviceConfig>
  </SetDeviceConfigRequestData>
    </Data>
</Request>
```

Example 2.10. SetDeviceConfigResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='SetDeviceConfig' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
       <SetDeviceConfigResponse/>
    </Data>
</Response>
```

Example 2.11. Enable DHCP to get local ipaddress

```
<Request>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='SetDeviceConfig' userJID='user@localhost/pc'
 requestNID='1234'>
```

```
 <ClientData>cd123</ClientData>
 <ClientCallback></ClientCallback>
</Header>
<Data>
   <SetDeviceConfigRequestData doNotSaveToFlash='true/false'>
   <DeviceConfig Dirty="CLEAN">
       <NetworkElementsConfig Dirty="CLEAN">
         <EthernetPortTableConfig>
            <EthernetPortConfig Dirty="MODIFY" ListIndex="1">
               <PortID>1</PortID>
               <EnableInterface>true</EnableInterface>
               <IsPrimary>true</IsPrimary>
               <EnableMulticast>true</EnableMulticast>
               <MTU>1500</MTU>
               <IPConfig>
                  <UseDHCP>true</UseDHCP>
                  <IPAddress>169.254.0.1</IPAddress>
                  <Netmask>255.255.0.0</Netmask>
               </IPConfig>
            </EthernetPortConfig>
         </EthernetPortTableConfig>
      </NetworkElementsConfig>
   </DeviceConfig>
  </SetDeviceConfigRequestData>
 </Data>
</Request>
```

Chapter 3. DeviceStatus API

API Calls used to publish the device status to AppController

GetDeviceStatus

Returns current status of device

Example 3.1. GetDeviceStatusRequest

```
 <Request>
 <Header serviceName='DeviceAdmin' type='GET'
 requestName='DeviceStatus' userJID='user@localhost/pc'
 requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
  <GetDeviceStatusRequestData/>
 </Data>
</Request>
```

Example 3.2. GetDeviceStatusResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='GET'
 requestName='DeviceStatus' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
       <GetDeviceStatusResponseData>
   <DeviceStatus>
    <SystemElementsStatus>
     <!-- Choice of device specific System Status -->
    </SystemElementsStatus>
    <ServiceElementsStatus>
     <!-- Choice of device specific Services status -->
    </ServiceElementsStatus>
    <NetworkElementsStatus>
     <NATZoneTableStatus Queryable="true" State="OK">
      <ParametersList>
       <Parameters>
        <Parameter name="" type="Float" units="" source=""></
Parameter>
```

```
        </Parameters>
       </ParametersList>
      </NATZoneTableStatus>
      <EthernetPortTableStatus>
       <EthernetPortStatus Queryable="true" State="OK">
        <ParametersList>
         <Parameters>
          <Parameter name="" type="Float" units="" source=""></
Parameter>
         </Parameters>
        </ParametersList>
       </EthernetPortStatus>
      </EthernetPortTableStatus>
      <!-- Network Status Common for all devices -->
     </NetworkElementsStatus>
     <StorageElementsStatus>
      <!-- Common for all DMS and MS Devices -->
     </StorageElementsStatus>
     <AVCodecElementsStatus>
      <!-- Choice of device specific AVCodec Elements -->
     </AVCodecElementsStatus>
    </DeviceStatus>
   </GetDeviceStatusResponseData>
    </Data>
</Response>
```

Chapter 4. DeviceCommand API

API Calls used to run commands on devices like Upgrade, Reboot, RevertDefault, SaveToFlash

GetDeviceCommand

Returns the supported commands information

Example 4.1. GetDeviceCommandRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='GetDeviceCommand' userJID='user@localhost/pc'
 requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
     <GetDeviceCommandRequest/>
   </Data>
</Request>
```

Example 4.2. GetDeviceCommandResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='GET'
 requestName='DeviceStatus' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
   <GetDeviceCommandResponseData>
   <DeviceCommand>
       <SystemElementsCommand">
          <!-- Choice of device specific  System Info -->
       </SystemElementsCommand>
       <ServiceElementsCommand">
          <!-- Choice of device specific  Services-->
       </ServiceElementsCommand>
       <NetworkElementsCommand">
          <!-- Network Config Common for all devices-->
       </NetworkElementsCommand>
        <StorageElementsCommand">
          <!-- Common for all DMS and MS Devices-->
       </StorageElementsCommand>
```

```
        <AVCodecElementsCommand">
           <!-- Choice of device specific  AVCodec Elements -->
        </AVCodecElementsCommand>
      </DeviceConfig>
     </GetDeviceCommandResponseData>
    </Data>
</Response>
```

ExecuteDeviceCommand

Execute the given action

Example 4.3. ExecuteDeviceCommandRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='ExecuteDeviceCommand' userJID='user@localhost/pc'
 requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
     <ExecuteDeviceCommandData command=''>
      <CommandParam name='' value=''/>
      <CommandParam name='' value=''/>
      <CommandParam name='' value=''/>
     </ExecuteDeviceCommandData>
   </Data>
</Request>
```

Example 4.4. ExecuteDeviceCommandResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='ExecuteDeviceCommand' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
     <ExecuteDeviceCommandData/>
    </Data>
</Response>
```

Reboot

Reboot the device

Example 4.5. RebootRequest

```
 <Request>
 <Header serviceName='DeviceAdmin' type='RPC' requestName='Reboot'
 userJID='user@localhost/pc' requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
    <RebootRequestData/>
   </Data>
</Request>
```

Example 4.6. RebootResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='RPC' requestName='Reboot'
 userJID='user@localhost/pc' requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
   <RebootResponseData/>
   </Data>
</Response>
```

Upgrade

Upgrade the device with given software

Example 4.7. UpgradeRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='RPC' requestName='Upgrade'
 userJID='user@localhost/pc' requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
```

```
    <UpgradeRequestData url=''/>
   </Data>
</Request>
```

Example 4.8. UpgradeResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='RPC' requestName='Upgrade'
 userJID='user@localhost/pc' requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
   <UpgradeResponseData/>
 </Data>
</Response>
```

RevertToFactoryDefault

Revert the device to factory default box

Example 4.9. RevertToFactoryDefaultRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='RevertToFactoryDefault' userJID='user@localhost/pc'
 requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
    <RevertToFactoryDefaultRequestData keepMedia=''
 keepNetworkSettings=''/>
   </Data>
</Request>
```

Example 4.10. RevertToFactoryDefaultResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='RevertToFactoryDefault' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
```

```
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
   <RevertToFactoryDefaultResponseData/>
   </Data>
</Response>
```

SaveConfiguration

Save the configuration to flash/harddrive

Example 4.11. SaveConfigurationRequest

```
<Request>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='SaveConfiguration' userJID='user@localhost/pc'
 requestNID='1234'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
 <Data>
    <SaveConfigurationRequestData/>
   </Data>
</Request>
```

Example 4.12. SaveConfigurationResponse

```
<Response>
 <Header serviceName='DeviceAdmin' type='RPC'
 requestName='SaveConfiguration' userJID='user@localhost/pc'
 requestNID='1234' state='200'>
  <ClientData>cd123</ClientData>
  <ClientCallback></ClientCallback>
 </Header>
    <Data>
   <SaveConfigurationResponseData/>
    </Data>
</Response>
```