

Extension Of IP Video Systems Collaboration Service API

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Chapter 1. Set Operations

Set Service Client Display Configuration Request

Sets the display configuration parameters for given service client.

Example 1.1. Set Service Client Display Configuration Request

```
<SetServiceClientDisplayConfig byNID=''>
  <IPVSCClientDisplayConfig>
    <!-- check the unmanned client display config-->
  </IPVSCClientDisplayConfig>
</SetServiceClientDisplayConfig>
```

Example 1.2. Set Service Client Display Configuration Response

```
<SetServiceClientDisplayConfig byNID=''>
  <IPVSCClientDisplayConfig>
    <!-- check the unmanned client display config-->
  </IPVSCClientDisplayConfig>
</SetServiceClientDisplayConfig>
```

Set Service Client Display Status Request

Sets the display status parameters for given service client.

Example 1.3. Set Service Client Display Status Request

```
<SetServiceClientDisplayStatus byNID=''>
  <IPVSCClientDisplayStatus>
    <!-- check the unmanned client display status-->
  </IPVSCClientDisplayStatus>
</SetServiceClientDisplayStatus>
```

Example 1.4. Set Service Client Display Status Response


```
<SetServiceClientDisplayStatus byNID=''>  
  <IPVSClientDisplayStatus>  
    <!-- check the unmanned client display status-->  
  </IPVSClientDisplayStatus>  
</SetServiceClientDisplayStatus>
```

Chapter 2. Admin API

List of admin API calls

Dir Object

This section explain list of Dir object API calls

Parameter Listing Of Set API

- *byNID* [Required]

SetDirInfo

Update Dir title and description in database

Example 2.1. Set Dir Info Request

- *title* [Required]
- *description* [Optional]

```
<SetDirInfo byNID='' title='' description='' />
```

Example 2.2. Set Dir Info Response

```
<SetDirInfo>
  <!-- Check Dir Object Response XML-->
</SetDirInfo>
```

SetDirPriority

Update Directory priority in database

Example 2.3. Set Dir Priority Request

- *MediaStorePort: NID* [Required]
- *MediaStorePort: priority* [Required]

```
<SetDirPriority byNID=''>
  <MediaStorePort NID='' priority='' />
```

```
<MediaStorePort NID='' priority='' />
</SetDirPriority>
```

Example 2.4. Set Dir Priority Response

```
<SetDirPriority>
  <!-- Check Dir Object Response XML-->
</SetDirPriority>
```

SetDirTags

Update Directory tags in database

Example 2.5. Set Dir Tags Request

- *Groups* [Required]

```
<SetDirTags byNID=''>
<Groups>
  <Tag name='' value='' />
</Groups>
</SetDirTags>
```

Example 2.6. Set Dir Tags Response

```
<SetDirTags>
  <!-- Check Dir Object Response XML-->
</SetDirTags>
```

SetDirThreshold

Update Directory threshold in database

Example 2.7. Set Dir Threshold Request

- *threshold* [Required]

```
<SetDirThreshold byNID='' threshold='' />
```

Example 2.8. Set Dir Threshold Response

```
<SetDirThreshold>
  <!-- Check Dir Object Response XML-->
</SetDirThreshold>
```

SetDirStorageConfig

Update DirSpanning and CapacityManagement in database

Example 2.9. Set Dir Storage Config Request

- *byNID* [Required]
- *whereMode='DirSpanning/CapacityManagement'* [Required]

```
<SetDirStorageConfig byNID='' whereMode=''>
<DirSpanning diskFullThreshold=''>
  <PortInfo>
    <Port byNID="" priority="" />
  </PortInfo>
</DirSpanning>
<CapacityManagement schedule=''>
  <ThresholdRule enable='' diskCapacityReached=''
reduceDiskCapacity='' type='' nasDriveURL='' />
  <ILMRule enable='' timestamp='' type='' nasDriveURL='' /
>
  </CapacityManagement>
</SetDirStorageConfig>
```

Example 2.10. Set Dir Storage Config Response

```
<SetDirStorageConfig>
  <Dir NID="" title="" dirType="" state="" size="" sizeUsed=""
dateCreated="" dateModified="" readOnly="">
  <description />
  <Groups>
    <Tag Name="" Value="" />
  </Groups>
  <StorageConfig mode=''>
    <DirSpanning diskFullThreshold=''>
```

```

        <PortInfo>
          <Port NID="" title="" deviceElementId="" priority=""
presence="" readOnly="" />
        </PortInfo>
      </DirSpanning>
      <CapacityManagement schedule='' state='' lastRunDate=''
lastRunTime='' lastRunState=''>
        <ThresholdRule enable='' diskCapacityReached=''
reduceDiskCapacity='' type='' nasDriveURL=''/>
        <ILMRule enable='' timestamp='' type='' nasDriveURL=''/>
      </CapacityManagement>
    </StorageConfig>
    <SubDirInfo>
      <Dir NID="" title="" dirType="RECYCLEBIN" />
      <Dir NID="" title="" dirType="PVR" />
    </SubDirInfo>
    <Permissions modify='' delete='' read='' import='' playback=''
record='' />
  </Dir>
</SetDirStorageConfig>

```

StartDirOffload

Start directory offload

Example 2.11. Start Dir Offload Request

- *byNID* [Required]

```
<StartDirOffload byNID='' />
```

Example 2.12. Start Dir Offload Response

```
<StartDirOffload />
```

Dir Object Response XML

Example 2.13. Dir Object Response XML

```

<Dir NID='' title='' dirType='' presence='' state='' size=''
sizeUsed='' diskFullThreshold='' dateCreated='' dateModified=''

```

```
readOnly=''>
<PortInfo />
<description />
<Groups>
  <Tag name='' value='' />
</Groups>
</Dir>
```

File Object

This section explain list of File object API calls

Parameter Listing Of Set API

- *byNID* [Required]

SetFileInfo

Update File title and description in database

Example 2.14. Set File Info Request

- *title* [Required]
- *description* [Optional]

```
<SetFileInfo byNID='' title='' description='' />
```

Example 2.15. Set File Info Response

```
<SetFileInfo>
  <!-- Check File Object Response XML-->
</SetFileInfo>
```

SetFileMetaData

replace given metadata in database

Example 2.16. Set File MetaData Request

- *byNID* [Required]
- *byTitle* [Either byNID or byTitle required]

- *MetaData* [Required]

```
<SetFileMetaData byNID='nid1' byTitle=''>
  <MetaData>
    <Tag name='' />
  </MetaData>
</SetFileMetaData>
```

Example 2.17. Set File MetaData Response

```
<SetFileMetaData>
  <!-- Check File Object Response XML-->
</SetFileMetaData>
```

SetFileTags

Update File tags in database

Example 2.18. Set File Tags Request

- *Groups* [Required]

```
<SetFileTags byNID=''>
  <Groups>
    <Tag name='' value='' />
  </Groups>
</SetFileTags>
```

Example 2.19. Set File Tags Response

```
<SetFileTags>
  <!-- Check File Object Response XML-->
</SetFileTags>
```

SetFileBypassAutoStorageRules

This is used to set the bypassAutoStorageRules.

Example 2.20. Set File BypassAutoStorageRules Request

- *byNID* [Required]
- *bypassAutoStorageRules*='true/false' [if the value is true, it bypasses NAS offload rules(delete/copy).]

```
<SetFileBypassAutoStorageRules byNID =""  
bypassAutoStorageRules='' />
```

Example 2.21. Set File BypassAutoStorageRules Response

```
<SetFileBypassAutoStorageRules>  
  <File NID='' title='' fileType='' streamType='' size=''  
    playlength='' presence='' state='' dateCreated=''  
dateModified=''  
    readOnly='' mediaGroupId='' bypassAutoStorageRules=''>  
    <description />  
    <Groups>  
      <Tag name='' value='' />  
    </Groups>  
    <MetaData>  
      <Tag Name=''>Value</Tag>  
    </MetaData>  
    <Dir dirNID='' dirTitle='' />  
  </File>  
</SetFileBypassAutoStorageRules>
```

File Object Response XML

Example 2.22. File Object Response XML

```
<File NID='' title='' fileType='' streamType='' size=''  
playlength='' presence='' state='' dateCreated='' dateModified=''  
readOnly='' mediaGroupId=''>  
  <description />  
  <Groups>  
    <Tag name='' value='' />  
  </Groups>  
  <MetaData>  
    <Tag Name=''>Value</Tag>  
  </MetaData>  
  <Dir dirNID='' dirTitle='' />  
</File>
```


GetPVRFile

Returns PVR file information

Example 2.23. GetPVRFile Request

Note

Check GetFile API Parameter Listing

```
<GetPVRFile countToFetch="" selectFormat="BASIC"
  sortBy="" sortByMetaData='' sortByTagName='' sortOrder="ascending"
startFrom="1" whereDateRange=""
  whereNID="" whereTagExpr="" whereTextSubStr=""
searchTextSubStrIn='TITLE,DESCRIPTION,METADATA,BOOKMARK'
  whereState="" whereMetaDataExpr=""
  whereParentDirNID="" whereSessionConfigNID = "" />
```

Example 2.24. GetPVRFile Response BASIC

```
<GetPVRFile from="0" total="0">
  <File NID='' title='' fileType='PVRMediaClip' streamType='' size='
    playlength='' state='' dateCreated='' dateModified=''
    readOnly='' mediaGroupId=''>
    <Permissions add='' modify='' delete='' read='' import=''
export='' playback='' />
  </File>
</GetPVRFile>
```

Example 2.25. GetPVRFile Response EXTENDED

```
<GetPVRFile from="0" total="0">
  <File NID='' title='' fileType='PVRMediaClip' streamType='' size=''
    playlength='' presence='' state='' dateCreated='' dateModified=''
    readOnly='' mediaGroupId=''>
    <description />
    <Groups>
      <Tag name='' value='' />
    </Groups>
    <Permissions add='' modify='' delete='' read='' import=''
export='' playback='' />
```

```
<MetaData>
  <Tag Name=''>Value</Tag>
</MetaData>
<Dir dirNID='' dirTitle='' />
</File>
</GetPVRFile>
```

GetOrphanFile

Returns Orphan file information

Example 2.26. GetOrphanFile Request

Note

Check GetFile API Parameter Listing

```
<GetOrphanFile countToFetch="" selectFormat="BASIC"
sortBy="" sortByMetaData='' sortByTagName='' sortOrder="ascending"
startFrom="1" whereDateRange=""
whereNID="" whereTagExpr="" whereTextSubStr=""
searchTextSubStrIn='TITLE,DESCRIPTION,METADATA,BOOKMARK'
whereState="" whereMetaDataExpr=""
whereParentDirNID="" whereSessionConfigNID = "" />
```

Example 2.27. GetOrphanFile Response BASIC

```
<GetOrphanFile from="0" total="0">
  <File NID='' title='' fileType='PVRMediaClip' streamType='' size=''
    playlength='' state='' dateCreated='' dateModified=''
    readOnly='' mediaGroupId=''>
    <Permissions add='' modify='' delete='' read='' import=''
export='' playback='' />
  </File>
</GetOrphanFile>
```

Example 2.28. GetOrphanFile Response EXTENDED

```
<GetOrphanFile from="0" total="0">
  <File NID='' title='' fileType='PVRMediaClip' streamType='' size=''
    playlength='' presence='' state='' dateCreated='' dateModified=''
```

```
readOnly='' mediaGroupId=''>
<description />
<Groups>
  <Tag name='' value='' />
</Groups>
<Permissions add='' modify='' delete='' read='' import=''
export='' playback='' />
<MetaData>
  <Tag Name=''>Value</Tag>
</MetaData>
<Dir dirNID='' dirTitle='' />
</File>
</GetOrphanFile>
```

User Object

This section explain list of User object API calls

AddUser

Add User in database

Example 2.29. Add User Request

- *fullName* [Required]
- *loginName* [Required]
- *password* [Required]
- *email* [Required]
- *Groups* [Optional]
- *UserPrivatData* [Optional]

```
<AddUser fullName='' loginName='' password='' email=''>
  <Groups>
    <Tag Name='' value='' />
  </Groups>
  <UserPrivatData />
</AddUser>
```

Example 2.30. Add User Response

```
<AddUser>
  <!-- Check User Object Response XML-->
</AddUser>
```

Parameter Listing Of Set API

- *byNID* [Either NID or username required]
- *byUserName* [Either NID or username required]

SetUserInfo

Update User full name and email in database

Example 2.31. Set User Info Request

- *fullName* [Required]
- *email* [Required]

```
<SetUserInfo byNID='' byUserName='' fullName='' email='' />
```

Example 2.32. Set User Info Response

```
<SetUserInfo>
  <!-- Check User Object Response XML-->
</SetUserInfo>
```

SetUserPrivateData

Update User private data in database

Example 2.33. Set User PrivateData Request

- *UserPrivateData* [Required]

```
<SetUserPrivateData byNID='' byUserName=''>
  <UserPrivateData />
</SetUserPrivateData>
```

Example 2.34. Set User PrivateData Response

```
<SetUserPrivateData>
  <!-- Check User Object Response XML-->
</SetUserPrivateData>
```

SetUserTags

Update User Tags in database

Example 2.35. Set User Tags Request

- *Groups* [Required]

```
<SetUserTags byNID='' byUserName=''>
  <Groups>
    <Tag name='' value='' />
  </Groups>
</SetUserTags>
```

Example 2.36. Set User Tags Response

```
<SetUserTags>
  <!-- Check User Object Response XML-->
</SetUserTags>
```

DeleteUser

Delete User from database

Example 2.37. Delete User Request

```
<DeleteUserInfo whereUserName='' whereNID='' />
```

Example 2.38. Delete User Response

```
<DeleteUserInfo>
  <!-- Check User Object Response XML-->
</DeleteUserInfo>
```

User Object Response XML

Example 2.39. User Object Response XML

```
<User NID="" title="" jid="" presence="">
  <description />
  <Groups>
    <Tag name="" value="" />
  </Groups>
</User>
```

Profile Object

This section explain list of Profile object API calls

AddProfile

Add profile in database

Example 2.40. Add Profile Request

- *streamType* [Required]
- *title* [Required]
- *description* [Optional]
- *bandwidth* [Optional]
- *Groups* [Optional]

```
<AddProfile streamType='' title='' description='' bandwidth=''>
  <Groups>
    <Tag name='' value='' />
  </Groups>
</AddProfile>
```

Example 2.41. Add Profile Response

```
<AddProfile>
  <!-- Check Profile Object Response XML-->
</AddProfile>
```

Parameter Listing Of Set API

- *byNID* [Either NID or title required]
- *byTitle* [Either NID or title required]

SetProfileBandwidth

Update profile bandwidth, burst ratio and burst duration

Example 2.42. Set ProfileBandwidth Request

- *bandwidth* [Required]
- *burstRatio* [Required]
- *burstDuration* [Required]

```
<SetProfileBandwidth byTitle='' byNID=''
bandwidth='' burstRatio='' burstDuration=''/>
```

Example 2.43. Set Profile Bandwidth Response

```
<SetProfileBandwidth>
  <!-- Check Profile Object Response XML-->
</SetProfileBandwidth>
```

SetProfileAudioVideoOption

Update profile Audio and video option.

Example 2.44. Set Profile Audio Video Option Request

- *audio='true/false'* [Required]
- *video='true/false'* [Required]

```
<SetProfileAudioVideoOption byTitle=''
byNID='' audio='true/false' video='true/false' />
```

Example 2.45. Set Profile Audio Video Option Response

```
<SetProfileAudioVideoOption>
  <!-- Check Profile Object Response XML-->
</SetProfileAudioVideoOption>
```

SetProfileAudioParam

Update profile audio params

Example 2.46. Set Profile Audio Param Request

- *sampleSize* [Required]
- *monoOrStereo* [Required]
- *audioCodeExample* [Required]

```
<SetProfileAudioParam byTitle='' byNID=''
sampleSize='' monoOrStereo='' audioCodeExample='' />
```

Example 2.47. Set Profile Audio Param Response

```
<SetProfileAudioParam>
  <!-- Check Profile Object Response XML-->
</SetProfileAudioParam>
```

SetProfileCompression

Update profile Compression

Example 2.48. Set Profile Compression Request

- *low* [Required]
- *high* [Required]


```
<SetProfileCompresion byTitle='' byNID=''
low='' high='' />
```

Example 2.49. Set Profile Compression Response

```
<SetProfileCompresion>
  <!-- Check Profile Object Response XML-->
</SetProfileCompresion>
```

SetProfileRefreshRate

Update profile Refresh rate min max values

Example 2.50. Set Profile Refresh Rate Request

- *min* [Required]
- *max* [Required]

```
<SetProfileRefreshRate byTitle='' byNID='' min='' max='' />
```

Example 2.51. Set Profile Refresh Rate Response

```
<SetProfileRefreshRate>
  <!-- Check Profile Object Response XML-->
</SetProfileRefreshRate>
```

SetProfileBlockThreshold

Update profile block threshold in database

Example 2.52. Set Profile Block Threshold Request

- *threshold* [Required]

```
<SetProfileBlockThreshold byTitle=''
byNID='' threshold='' />
```

Example 2.53. Set Profile Block Threshold Response

```
<SetProfileBlockThreshold>
  <!-- Check Profile Object Response XML-->
</SetProfileBlockThreshold>
```

SetProfileColorSampling

Update profile color sampling in database

Example 2.54. Set Profile Color Sampling Request

- *colorSampling*='Dynamic 4:4:4/Static 4:4:4/4:2:2' [Required]

```
<SetProfileColorSampling byTitle=''
byNID='' colorSampling='Dynamic 4:4:4/Static 4:4:4/4:2:2' />
```

Example 2.55. Set Profile Color Sampling Response

```
<SetProfileColorSampling>
  <!-- Check Profile Object Response XML-->
</SetProfileColorSampling>
```

SetProfileKBMPParam

Update profile Key board mouse in database

Example 2.56. Set Profile KBM Param Request

- *enableKbm*='true/false' [Required]
- *allowKMSwitch*='true/false' [Required]

```
<SetProfileKBMPParam byTitle='' byNID=''
enableKbm='true/false' allowKMSwitch='true/false' />
```

Example 2.57. Set Profile KBM Param Response

```
<SetProfileKBMParam>
  <!-- Check Profile Object Response XML-->
</SetProfileKBMParam>
```

SetProfileMulticast

Update profile multicast in database

Example 2.58. Set Profile Multicast Request

- *multicast*='true/false' [Required]

```
<SetProfileMulticast byTitle='' byNID=''
multicast='true/false' />
```

Example 2.59. Set Profile Multicast Response

```
<SetProfileMulticast>
  <!-- Check Profile Object Response XML-->
</SetProfileMulticast>
```

SetProfileSlice

Update profile Slice min and max values in database

Example 2.60. Set Profile Slice Request

- *min* [Required]
- *max* [Required]

```
<SetProfileSlice byTitle='' byNID='' min='' max='' />
```

Example 2.61. Set Profile Slice Response

```
<SetProfileSlice>
  <!-- Check Profile Object Response XML-->
</SetProfileSlice>
```

SetProfileInfo

Update profile Info in database

Example 2.62. Set Profile Info Request

- *description* [Required]

```
<SetProfileInfo byTitle='' byNID='' description='' />
```

Example 2.63. Set Profile Info Response

```
<SetProfileInfo>
  <!-- Check Profile Object Response XML-->
</SetProfileInfo>
```

SetProfileTags

Update profile Tags in database

Example 2.64. Set Profile Tags Request

- *Groups* [Required]

```
<SetProfileTags byTitle='' byNID=''>
  <Groups>
    <Tag name='' value='' />
  </Groups>
</SetProfileTags>
```

Example 2.65. Set Profile Tags Response

```
<SetProfileTags>
  <!-- Check Profile Object Response XML-->
</SetProfileTags>
```

DeleteProfile

Delete given profile from database

Example 2.66. Delete Profile Request

```
<DeleteProfile whereTitle='' whereNID='' />
```

Example 2.67. Delete Profile Response

```
<DeleteProfile>
  <!-- Check Profile Object Response XML-->
</DeleteProfile>
```

Profile Object Response XML

Example 2.68. Profile Object Response XML

```
<Profile NID='' title='' streamType='' bandwidth=''
avOption='Audio/Video/Both' remoteControl=''>
  <description />
  <Groups>
    <Tag name='' value='' />
  </Groups>
</Profile>
```

System Object

This section explain list of System object API calls

GetSystemConfig

Returns System config information

Example 2.69. GetSystemConfig Request

```
<GetSystemConfig whereConfig="SoftwareVersion/ScheduleBackup/  
ExternalAuthentication/Preferences/DeviceDiscovery/ALL" />
```

Example 2.70. GetSystemConfig Response

```
<GetSystemConfig>  
  <Device jid=''>  
    <SoftwareVersion version='' />  
    <ScheduleBackup enable='true/false' backupTime=''  
enableExport='true/false' exportURL='' recoveryMode='' />  
    <ExternalAuthentication enable='true/false' host='' adminDN=''  
adminPassword='' baseDN='' usernameField='' />  
    <Preferences>  
      <Login maxMediaClients='' />  
    </Preferences>  
  </Device>  
</GetSystemConfig>
```

Chapter 3. Native Admin API

Parameter Listing

This is the list of common parameters in Get Requests

- *startFrom* [Optional]
- *countToFetch* [Optional]
- *sortBy*="" [Optional]
- *sortOrder*="ascending/descending" [Optional]
- *selectFormat*="NATIVE/CUSTOM" [Required]
- *whereNID*='nid1,nid2,nid3' [Optional]
- *whereTagExpr*="Name='Location' and Value='Sunnyvale'" [Optional]
- *whereDateRange*="From:YYYY-MM-DD HH:MM:SS.MMMM, To:YYYY-MM-DD HH:MM:SS.MMMM, Interval:xx(Y/M/D/H/m/S/s)" [Optional]
- *whereTextSubStr*="" [Optional]
- *type* [Required]
- *whereXPath*="//XPath" [Optional]

Get Object

This will get the list of given native object from the database.

The NATIVE Detail Level returns the native object from database.

The CUSTOM Detail Level returns the native object in user requested format. (Not Supported)

Example 3.1. Get Object Request

```
<GetObject  startFrom="" countToFetch=""
            sortBy="" sortOrder=""
            selectFormat=""
            type=""
            whereNID=""
            whereTextSubStr=""
            whereTagExpr=""
            whereDateRange=""
            whereXPath="">
<SelectXML/>
</GetObject>
```

- `selectFormat="NATIVE/CUSTOM"` [Required (CUSTOM Level not supported)]

Example 3.2. Get Object Response - NATIVE Format

```
<GetObject from="200" total="400">
  <!-- Returns the native object xml's-->
  <Object NID="" title="" />
  <Object NID="" title="" />
  <Object NID="" title="" />
</GetObject>
```

Example 3.3. Get Object Response - CUSTOM Format

```
<GetObject from="200" total="400">
  <!-- Object record with CUSTOM information -->
  <Object NID="" title="">
    <description />
    <Groups>
      <Tag name="" value="" />
    </Groups>
  </Object>
</GetObject>
```

Add Object

This will add the native object in the database

Example 3.4. Add Object Request

```
<AddObject type="">
  <!--Add Native Object xml here -->
</AddObject>
```

Example 3.5. Add Object Response

```
<AddObject type="AssetResource">
  <!--Native object xml -->
</AddObject>
```


Update Object

This will update the native object in the database

Example 3.6. Update Object Request

```
<UpdateObject type=" " whereNID=" ">
  <!--Object XML -->
</UpdateObject>
```

Example 3.7. Update Object Response

```
<UpdateObject type=" " whereNID=" ">
  <!-- Object XML -->
</UpdateObject>
```

Delete Object

This will delete the native objects from data base

Example 3.8. Delete Object Request

```
<DeleteObject type=" " whereDateRange=" "
whereNID=" " whereTagExpr=" " whereTextSubStr=" " whereXPath=" ">
</DeleteObject>
```

Example 3.9. Delete Object Response

```
<DeleteObject type="AssetResource">
</DeleteObject>
```

Chapter 4. Update Notifications

[Not Implemented]

User

This is a list of update notifications corresponding to the user.

User Update

This is a notification for user update.

Example 4.1. User Update Notification

```
<UserUpdate>
  <!-- Either BASIC or EXTENDED format send based on user requested
  -->

  <User NID="" username="" email="" fullName="" creationDate=""
modifiedDate="" presence="" state="" selectFormat="BASIC"
operation="Add/Delete/Update" />

  <User NID="" username="" email="" fullName="" creationDate=""
modifiedDate="" presence="" state="" selectFormat="EXTENDED"
operation="Add/Delete/Update">
    <Groups>
      <Tag name="" value="" />
    </Groups>
    <UserPrivateData />
  </User>
</UserUpdate>
```

User Connection Update

This is a notification for user connection update.

Example 4.2. User Connection Update Notification

```
<UserConnnectionUpdate>
  <User NID='' operation="Add/Delete/Update">
    <ConnectionInfo .....

```

User Connection State Update

This is a notification for user connection state update.

Example 4.3. User Connection State Update Notification

```
<UserConnnectionStateUpdate>
  <User NID=''>
    <ConnectionState .../>
    <!-- check ConnectionState element in ConnectionStateUpdate
section in Update Notification chapter -->
  </User>
</UserConnnectionStateUpdate>
```

File

This is a list of update notifications corresponding to the file.

File Update

This is a notification for file update.

Example 4.4. File Update Notification

```
<FileUpdate>
  <!-- Either BASIC or EXTENDED format send based on user requested
-->

  <File NID='' title='' fileType='MediaClip' streamType='' size=''
playlength='' state='' dateCreated='' dateModified='' readOnly=''
mediaGroupId='' selectFormat="BASIC" operation="Add/Delete/Update" />

  <File NID='' title='' fileType='' streamType='' size=''
playlength='' presence='' state='' dateCreated='' dateModified=''
readOnly='' mediaGroupId='' selectFormat="EXTENDED" operation="Add/
Delete/Update">
    <description />
    <Groups>
      <Tag name='' value='' />
    </Groups>
    <MetaData>
      <Tag Name=''>Value</Tag>
    </MetaData>
    <Dir dirNID='' dirTitle='' />
```

```
</File>
</FileUpdate>
```

File Connection Update

This is a notification for file connection update.

Example 4.5. File Connection Update Notification

```
<FileConnectionUpdate>
  <File NID='' operation="Add/Delete/Update">
    <ConnectionInfo .....
```

File Connection State Update

This is a notification for file connection state update.

Example 4.6. File Connection State Update Notification

```
<FileConnectionStateUpdate>
  <File NID=''>
    <ConnectionState .../>
    <!-- check ConnectionState element in ConnectionStateUpdate
section in Update Notification chapter -->
  </File>
</FileConnectionStateUpdate>
```

Dir

This is a list of update notifications corresponding to the directory.

Dir Update

This is a notification for directory update.

Example 4.7. Dir Update Notification

```

<DirUpdate>
  <!-- Either BASIC or EXTENDED format send based on user requested
-->

  <Dir NID='' title='' dirType='' state='' size='' sizeUsed=''
diskFullThreshold='' dateCreated='' dateModified='' readOnly=''
selectFormat="BASIC" operation="Add/Delete/Update" />

  <Dir NID='' title='' dirType='' presence='' state='' size=''
sizeUsed='' diskFullThreshold='' dateCreated='' dateModified=''
readOnly='' selectFormat="EXTENDED" operation="Add/Delete/Update">
    <PortInfo />
    <description />
    <Groups>
      <Tag name='' value='' />
    </Groups>
  </Dir>
</DirUpdate>

```

Dir Connection Update

This is a notification for directory connection update.

Example 4.8. Dir Connection Update Notification

```

<DirConnectionUpdate>
  <!-- Add/Update/Delete -->
  <Dir NID='' operation="Add/Delete/Update">
    <ConnectionInfo .....

```

Dir Connection State Update

This is a notification for directory connection state update.

Example 4.9. Dir Connection State Update Notification

```

<DirConnectionStateUpdate>
  <Dir NID=''>
    <ConnectionState .../>
    <!-- check ConnectionState element in ConnectionStateUpdate
section in Update Notification chapter -->

```

```
</Dir>  
</DirConnectionStateUpdate>
```

Chapter 5. Get Connection API

This is used to get the connection information of the port, user, file, and directory. [Not Implemented]

Get Port Connection Info

This is used to get the connection information of the port.

Example 5.1. Get Port Connection Info Request

```
<GetPortConnectionInfo whereNID='' wherePortTitle='' />
```

Example 5.2. Get Port Connection Info Response

```
<GetPortConnectionInfo>
  <Port NID='' title=''>
    <ConnectionInfo .....
```

Get User Connection Info

This is used to get the connection information of the user.

Example 5.3. Get User Connection Info Request

```
<GetUserConnectionInfo whereNID='' whereUserName='' />
```

Example 5.4. Get User Connection Info Response

```
<GetUserConnectionInfo>
  <User NID='' userName=''>
    <ConnectionInfo .....
```

```
</User>
</GetUserConnectionInfo>
```

Get File Connection Info

This is used to get the connection information of the file.

Example 5.5. Get File Connection Info Request

```
<GetFileConnectionInfo whereNID='' whereFileTitle='' />
```

Example 5.6. Get File Connection Info Response

```
<GetFileConnectionInfo>
  <File NID='' title=''>
    <ConnectionInfo .....
```

Get Dir Connection Info

This is used to get the connection information of the directory.

Example 5.7. Get Dir Connection Info Request

```
<GetDirConnectionInfo whereNID='' whereDirTitle='' />
```

Example 5.8. Get Dir Connection Info Response

```
<GetDirConnectionInfo>
  <Dir NID='' title=''>
    <ConnectionInfo .....
```



```
</Dir>  
</GetDirConnectionInfo>
```

Chapter 6. Report API

Generate various types of reports based on the user requirement. For example, Audit Report and MS Configuration Report.

Add Report

It is used to add a report.

This is a list of parameters for add report request.

- *name* [Required]
- *description* [Optional]
- *type*="Audit/Policy" [Required]
- *format*="CSV/XML" [Required]
- *enableExport* [Optional]
- *exportSchedule* [Optional]
- *exportURL* [Optional]
- *properties* [Optional]
- *permissions* [Optional]
- *whereTarget*="User/Resource" [Required]
- *whereTextSubStr* [Optional]
- *whereTagExpr* [Optional]
- *FormatXSL* [Required]

Example 6.1. Add Report Request

```
<AddReport name='' description='' type='' format=''
enableExport='' exportSchedule='' exportURL='' >
  <Audit properties='' >
    <FormatXSL />
  </Audit>
  <Policy properties='' permissions='' whereTarget=''
whereTextSubStr='' whereTagExpr='' >
    <FormatXSL />
  </Policy>
</AddReport>
```

Example 6.2. Add Report Response

```
<AddReport>
  <Report NID='' name='' description='' type='' format=''
enableExport='' exportSchedule='' exportURL='' >
    <Status>
      <LastExportStatus date='' time='' state='' />
      <LastExported date='' time='' />
    </Status>
  </Report>
</AddReport>
```

Set Report

It is used to update a report.

This is a list of parameters for set report request.

- *byNID* [Required]
- *byName* [Optional]
- *description* [Optional]
- *format*="CSV/XML" [Required]
- *enableExport* [Optional]
- *exportSchedule* [Optional]
- *exportURL* [Optional]
- *properties* [Optional]
- *permissions* [Optional]
- *whereTarget*="User/Resource" [Required]
- *whereTextSubStr* [Optional]
- *whereTagExpr* [Optional]
- *FormatXSL* [Required]

Example 6.3. Set Report Request

```
<SetReport byNID='' byName='' description='' format=''
enableExport='' exportSchedule='' exportURL='' >
  <Audit properties='' >
  <FormatXSL />
```

```
</Audit>
<Policy properties='' permissions='' whereTarget=''
whereTextSubStr='' whereTagExpr='' >
  <FormatXSL />
</Policy>
</SetReport>
```

Example 6.4. Set Report Response

```
<SetReport>
  <Report NID='' name='' description='' type='' format=''
enableExport='' exportSchedule='' exportURL='' >
    <Status>
      <LastExportStatus date='' time='' state='' />
      <LastExported date='' time='' />
    </Status>
  </Report>
</SetReport>
```

Get Report

It is used to get the list of reports.

This is a list of parameters for get report request.

- *startFrom* [Optional]
- *countToFetch* [Optional]
- *sortBy*="name/type" [Optional]
- *sortOrder*="ascending/descending" [Optional]
- *selectFormat*="BASIC/EXTENDED" [Optional]
- *whereNID* [Optional]
- *whereName* [Optional]
- *whereType* [Optional]

Example 6.5. Get Report Request

```
<GetReport startFrom='1' countToFetch='100' sortBy=''
sortOrder='' selectFormat='BASIC/EXTENDED' whereNID='' whereName=''
whereType='' />
```

Example 6.6. Get Report Response - BASIC Format

```
<GetReport>
  <Report NID='' name='' description='' type='' format=''
enableExport='' exportSchedule='' exportURL='' >
    <Status>
      <LastExportStatus date='' time='' state='' />
      <LastExported date='' time='' />
    </Status>
  </Report>
</GetReport>
```

Example 6.7. Get Report Response - EXTENDED Format

```
<GetReport>
  <Report NID='' name='' description='' type='Audit' format=''
enableExport='' exportSchedule='' exportURL='' >
    <Audit properties='' >
      <FormatXSL />
    </Audit>
    <Status>
      <LastExportStatus date='' time='' state='' />
      <LastExported date='' time='' />
    </Status>
  </Report>
  <Report NID='' name='' description='' type='Policy'
format='' enableExport='' exportSchedule='' exportURL='' >
    <Policy properties='' permissions='' whereTarget=''
whereTextSubStr='' whereTagExpr='' >
      <FormatXSL />
    </Policy>
    <Status>
      <LastExportStatus date='' time='' state='' />
      <LastExported date='' time='' />
    </Status>
  </Report>
</GetReport>
```

Delete Report

It is used to delete a report. Multiple reports deletion is supported.

This is a list of parameters for delete report request.

- *byNID* [Required]
- *byName* [Optional]

Example 6.8. Delete Report Request

```
<DeleteReport byNID='' byName='' />
```

Example 6.9. Delete Report Response

```
<DeleteReport/>
```

Download Report

It is used to download a report.

This is a list of parameters for download report request.

- *whereNID* [Required]
- *whereName* [Optional]
- *toFileName* [Required]

Example 6.10. Download Report Request

```
<DownloadReport whereNID='' whereName='' toFileName='' />
```

Example 6.11. Download Report Response

```
<DownloadReport />
```

Chapter 7. DB API

DB requests such as Unsubscribe and GetSubscribers

Unsubscribe

It is used to unsubscribe a user from receiving resource updates.

This is a list of parameters for unsubscribe request.

- *whereNID* [Optional]
- *whereSubscriptionID* [Optional]

Example 7.1. Unsubscribe Request

```
<Unsubscribe whereNID=" " whereSubscriptionID=" ">
</Unsubscribe>
```

GetSubscribers

It is used to get a list of subscribers for a particular resource.

This is a list of parameters for GetSubscribers request.

- *byNID* [Optional]
- *selectFormat*="BASIC/EXTENDED" [Optional]

Example 7.2. GetSubscribers Request

```
<GetSubscribers byNID=" " selectFormat="BASIC/EXTENDED" />
```

Example 7.3. GetSubscribers Response - BASIC format

```
<GetSubscribers>
<Subscribers nid=" ">
  <JIDInfo jid=" " />
</Subscribers>
</GetSubscribers>
```

Example 7.4. GetSubscribers Response - EXTENDED format

```
<GetSubscribers>
<Subscribers nid="">
  <JIDInfo jid="">
    <Topic subscriptionId="" />
  </JIDInfo>
</Subscribers>
</GetSubscribers>
```

Set Auto Discovery

It is used to set device discovery parameters in DB.

This is a list of parameters for set auto discovery request.

- *enable* [Required]
- *Groups* [Optional]

Example 7.5. Set Auto Discovery Request

```
<SetAutoDiscovery enable=''>
  <Groups>
    <Tag Name='' Value='' />
  </Groups>
</SetAutoDiscovery>
```

Example 7.6. Set Auto Discovery Response

```
<SetAutoDiscovery/>
```

Upgrade Device

It is used to upgrade the device.

This is a list of parameters for Upgrade Device request.

- *byNID* [Required]
- *byTitle* [Optional]

Example 7.7. Upgrade Device Request

```
<UpgradeDevice byNID="" byTitle="">
<URL/>
</UpgradeDevice>
```

Example 7.8. Upgrade Device Response

```
<UpgradeDevice/>
```

Save Config Device

It is used to save the configuration of device.

This is a list of parameters for Save Config device request.

- *byNID* [Required]
- *byTitle* [Optional]

Example 7.9. Save Config Device Request

```
<SaveConfigDevice byNID="" byTitle=""/>
```

Example 7.10. Save Config Device Response

```
<SaveConfigDevice/>
```

Revert To Default Device

It is used to revert the device to factory default.

This is a list of parameters for Revert To Default Device request.

- *byNID* [Required]
- *byTitle* [Optional]

- *keepMedia*="true/false" [Optional]
- *KeepNetworkSettings*="true/false" [Optional]

Example 7.11. Revert To Default Device Request

```
<RevertToDefaultDevice byNID=" " byTitle=" " keepMedia=" "
keepNetworkSettings=" " />
```

Example 7.12. Revert To Default Device Response

```
<RevertToDefaultDevice/>
```

Reboot Device

It is used to reboot device.

This is a list of parameters for reboot device request.

- *byNID* [Required]
- *byTitle* [Optional]

Example 7.13. Reboot Device Request

```
<RebootDevice byNID=" " byTitle=" " />
```

Example 7.14. Reboot Device Response

```
<RebootDevice/>
```

Shutdown Device

It is used to shutdown device.

This is a list of parameters for Shutdown device request.

- *byNID* [Required]

- *byTitle* [Optional]

Example 7.15. Shutdown Device Request

```
<ShutdownDevice byNID="" byTitle="" />
```

Example 7.16. Shutdown Device Response

```
<ShutdownDevice />
```