

---

```

<nowPlaying deviceID="$MACADDR" source="$SOURCE">
  <ContentItem source="$SOURCE" location="$STRING" sourceAccount="$STRING" isPresetable="$BOOL">
    <itemName>$STRING</itemName>
  </ContentItem>
  <track>$STRING</track>
  <artist>$STRING</artist>
  <album>$STRING</album>
  <stationName>$STRING</stationName>
  <art artImageStatus="$ART_STATUS">$URL</art>
  <playStatus>$PLAY_STATUS</playStatus>
  <description>$STRING</description>
  <stationLocation>$STRING</stationLocation>
</nowPlaying>

```

---

POST:

N/A

## 6.11 /trackInfo

Description:

Get track information

GET:

---

```

<nowPlaying deviceID="$MACADDR" source="$SOURCE">
  <ContentItem source="$SOURCE" location="$STRING" sourceAccount="$STRING" isPresetable="$BOOL">
    <itemName>$STRING</itemName>
  </ContentItem>
  <track>$STRING</track>
  <artist>$STRING</artist>
  <album>$STRING</album>
  <stationName>$STRING</stationName>
  <art artImageStatus="$ART_STATUS">$URL</art>
  <playStatus>$PLAY_STATUS</playStatus>
  <description>$STRING</description>
  <stationLocation>$STRING</stationLocation>
</nowPlaying>

```

---

POST:

N/A

## 6.12 /volume

Description:

Get or Set the volume and mute status for this SoundTouch device

Volume ranges between 0, 100 inclusive

GET:

---

```

<volume deviceID="$MACADDR">
  <targetvolume>$INT</targetvolume>
  <actualvolume>$INT</actualvolume>
  <muteenabled>$BOOL</muteenabled>
</volume>

```

---

POST:

---

```
<volume>$INT</volume>
```

---

### 6.13 /presets

Description: Presets are a core part of the SoundTouch ecosystem. A preset is used to set and recall a specific music stream supported by the SoundTouch speaker

List of current Presets

GET:

---

```
<presets>
  <preset id="$PRESET_ID" createdOn="$UINT64" updateOn="$UINT64">
    <ContentItem source="$SOURCE" location="$STRING" sourceAccount="$STRING"
      isPresetable="$BOOL">
      <itemName>$STRING</itemName>
    </ContentItem>
  </preset>
  ...
</presets>
```

---

POST:

N/A

### 6.14 /info

Description:

Get device information; mostly static device info such as device id, type, IP address (per component if applicable), cloud account ID, software version, product version and component type and version

GET:

---

```
<info deviceID="$MACADDR">
  <name>$STRING</name>
  <type>$STRING</type>
  <margeAccountUUID>$STRING</margeAccountUUID>
  <components>
    <component>
      <componentCategory>$STRING</componentCategory>
      <softwareVersion>$STRING</softwareVersion>
      <serialNumber>$STRING</serialNumber>
    </component>
    ...
  </components>
  <margeURL>$URL</margeURL>
  <networkInfo type="$STRING">
    <macAddress>$MACADDR</macAddress>
    <ipAddress>$IPADDR</ipAddress>
  </networkInfo>
  ...
</info>
```

---

POST:

N/A

## 6.15 /name

Description:

Set the device name

GET:

N/A

POST:

---

`<name>${STRING}</name>`

---

## 7 WebSockets

Notifications are server initiated WebSocket messages which inform client(s) of changes in SoundTouch device. They serve to keep clients in sync with the server. They are sent over HTTP on port 8080 via a WebSocket connection which is initiated from a WebSocket client. The WebSocket connection offers an advantage over HTTP because it allows for bidirectional communication, which allows for asynchronous notifications to be initiated from the server side (SoundTouch device) to the client connection.

### 7.1 WebSocket Asynchronous Notifications

After a successful WebSocket connection has been established, the simplest thing a client can do is to listen for the asynchronous notifications that are published by the SoundTouch device.

The incomplete example below shows examples of a single update notification describing what changed on the SoundTouch device. This will help inform the client, if it is interested, to perform a new request for the updated values. In some cases the notification does not contain the changed information, but for convenience, in other cases it may.

Creating the websocket:

When creating a client websocket connection, be sure to specify the protocol as “gabbo”. An example javascript example is shown below.

---

```
socket = new WebSocket("ws://$IP", "gabbo")
```

---

Examples:

---

```
<updates deviceID="$MACADDR">
```

```
</updates>
```

---

```
<updates deviceID="$MACADDR">
  <volume>
    <targetvolume>${INT}</targetvolume>
    <actualvolume>${INT}</actualvolume>
  </volume>
</updates>
```

---

### 7.1.1 PresetsChangedNotifyUI

Description: When a preset is changed in any way like added, cleared, or modified the SoundTouch speaker will send this asynchronous notification. This is a signal for the WS API client to request the new list of presets via the /presets API

---

```
<updates deviceID="$MACADDR">
  <presetsUpdated>
    <presets>
      <preset id="$INT">
        <ContentItem source="$SOURCE" location="$STRING" sourceAccount=""
          isPresetable="$BOOL">
          <itemName>$STRING</itemName>
        </ContentItem>
      </preset>
      <preset id="$INT">
        <ContentItem source="$SOURCE" location="$STRING" sourceAccount="$STRING"
          isPresetable="$BOOL">
          <itemName>STRING</itemName>
        </ContentItem>
      </preset>
      <preset id="$INT">
        <ContentItem source="$SOURCE" location="$STRING" sourceAccount="STRING"
          isPresetable="$BOOL">
          <itemName>$STRING</itemName>
        </ContentItem>
      </preset>
      <preset id="$INT" createdOn="$UINT64" updatedOn="$UINT64">
        <ContentItem source="$SOURCE" location="$STRING" sourceAccount="" isPresetable="$BOOL">
          <itemName>$STRING</itemName>
        </ContentItem>
      </preset>
    </presets>
  </presetsUpdated>
</updates>
```

---

### 7.1.2 RecentsUpdatedNotifyUI

Description: When the recents list is changed in any way like a recent is added, removed, or moved within the list, the SoundTouch speaker will send this asynchronous notification. This is a signal for the WS API client to request the new list of recents via the /recents API

---

```
<updates deviceID=' $MACADDR' >
  <recentsUpdated>
    <recents>
      <recent deviceID="$MACADDR" utcTime="$UINT64">
        <contentItem source="$SOURCE" location="$STRING" sourceAccount="$STRING"
          isPresetable="$BOOL">
          <itemName>$STRING</itemName>
        </contentItem>
      </recent>
      <recent deviceID="$MACADDR" utcTime="$UINT64">
        <contentItem source="$SOURCE" location="$STRING" sourceAccount="" isPresetable="$BOOL">
          <itemName>$STRING</itemName>
        </contentItem>
      </recent>
      <recent deviceID="$MACADDR" utcTime="$UINT64">
```

```

    <contentItem source="$SOURCE" location="$STRING" sourceAccount="" isPresetable="$BOOL">
      <itemName>$STRING</itemName>
    </contentItem>
  </recent>
</recents>
</recentsUpdated>
</updates>

```

---

### 7.1.3 AcctModeChangedNotifyUI

Description: When the SoundTouch speaker's association with a cloud account changes then this asynchronous notification will be sent

```

<updates deviceID='$MACADDR'>
  <acctModeUpdated>
    </acctModeUpdated>
</updates>"

```

---

### 7.1.4 ErrorNotification

ErrorNotification

---

### 7.1.5 NowPlayingChange

```

<updates deviceID="$MACADDR">
  <nowPlayingUpdated><nowPlaying deviceID="$MACADDR" source="$SOURCE">
    <ContentItem source="$SOURCE" location="$STRING" sourceAccount="" isPresetable="$BOOL">
      <itemName>$STRING</itemName>
    </ContentItem>
    <track/>
    <artist/>
    <album/>
    <stationName>$STRING</stationName>
    <art artImageStatus="$ART_STATUS">$URL</art>
    <playStatus>$PLAY_STATUS</playStatus>
    <description>$STRING</description>
    <stationLocation>$STRING</stationLocation>
  </nowPlaying>
</nowPlayingUpdated>
</updates>

```

---

### 7.1.6 VolumeChange

```

<updates deviceID="$MACADDR">
  <volumeUpdated/>
</updates>

```

---

### 7.1.7 BassChange

---

```
<updates deviceID="$MACADDR">
  <bassUpdated/>
</updates>
```

---

### 7.1.8 ZoneMapChange

---

```
<updates deviceID="$MACADDR">
  <zoneUpdated/>
</updates>
```

---

#### \* Slave device joining a zone

---

```
<updates deviceID="slave $MACADDR">
  <zoneUpdated/>
</updates>
<updates deviceID="slave $MACADDR">
  <volumeUpdated/>
</updates>
<updates deviceID="slave $MACADDR">
  <volumeUpdated/>
</updates>
<updates deviceID="slave $MACADDR">
  <nowPlayingUpdated/>
</updates>
```

---

#### \* Slave device leaving a zone

---

```
<updates deviceID="slave $MACADDR">
  <zoneUpdated/>
</updates>
<updates deviceID="slave $MACADDR">
  <nowPlayingUpdated/>
</updates>
```

---

#### \* Master device notifies any time a slave device joins its zone

---

```
<updates deviceID="slave $MACADDR">
  <zoneUpdated/>
</updates>
<updates deviceID="slave $MACADDR">
  <nowPlayingUpdated/>
</updates>
```

---

#### \* Master device notifies any time a slave device leaves its zone

---

```

<updates deviceID="$MACADDR">
  <zoneUpdated/>
</updates>
<updates deviceID="$MACADDR">
  <zoneUpdated/>
</updates>

```

---

### 7.1.9 SWUpdateStatusChange

Description: While this may happen in general, it is not important and there is no need to take any action when this is received

---

```

<updates deviceID="$MACADDR">
  <swUpdateStatusUpdated/>
</updates>

```

---

### 7.1.10 SiteSurveyResultsChange

Description: While this may happen in general, it is not important and there is no need to take any action when this is received

---

```

<updates deviceID="$MACADDR">
  <siteSurveyResultsUpdated/>
</updates>

```

---

### 7.1.11 SourcesChange

---

```

<updates deviceID="$MACADDR">
  <sourcesUpdated/>
</updates>

```

---

### 7.1.12 NowSelectionChange

---

```

<updates deviceID="$MACADDR">
  <nowSelectionUpdated>
    <preset id="$INT">
      <ContentItem source="$SOURCE" location="$STRING" sourceAccount="$STRING"
        isPresetable="$BOOL">
        <itemName>$STRING</itemName>
      </ContentItem>
    </preset>
  </nowSelectionUpdated>
</updates>

```

---

### 7.1.13 NetworkConnectionStatus

---

```

<updates deviceID="$MACADDR">
  <connectionStateUpdated/>
</updates>

```

---

---

**7.1.14 InfoChange, e.g., the device name changed**

---

```
<updates deviceID="$MACADDR">  
  <infoUpdated/>  
</updates>
```

---