

Notes on JSON RPC / Comet and the Logitech Media Server

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Logitech Media Server (LMS) provides a JSONRPC / Comet API as an alternative to the CLI API for retrieving information about the server and subscribing to receive notifications when something changes.

Documentation on the exact protocol (URLs to connect to, format of the JSON requests and responses) is sparse. This document aims to describe – in detail sufficient to implement a compatible client – the protocol.

Readers are assumed to be familiar with the CLI protocol.

In this document, “client” is a client of the server wishing to act as a remote control. It is **not** a device capable of playing music.

To easily send JSON requests to the server while experimenting I recommend using the [Postman Chrome extension](#).

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Versions

The protocol was first introduced in version ... of the server. Version specific changes in the protocol are noted below.

API endpoints

The server implements several HTTP API endpoints.

- POST to /jsonrpc.js
- POST to /cometd/handshake
- POST to /comet/...

These are served on the same port that serves the server's web UI.

The /jsonrpc.js endpoint is used for ...

The /jsonrpc.js endpoint takes optional URL parameters. They are:

- **_dc**=<number>
 - This appears to be a Unix seconds-since-the-epoch timestamp. Its meaning in the request is currently unknown.

The /comet and related endpoints are used for ...

The client should open a single connection to the server's serving port and re-use this connection for all requests (?)

General structure of a JSON request

A JSON request is an object with the following fields:

```
{  
  "id": <number>,  
  "method": "<string>",&br/>  "params": [ <array of data> ]  
}
```

The "id" field is ...

The "method" field identifies the method to call on the server, and determines how the "params" field should be interpreted.

The "params" field is specific to the method, and described in detail in the [JSON methods](#) section.

General structure of a JSON response

A JSON response is an object that contains the same **id**, **method**, and **params** fields as the request (with the same values), and an additional **result** field. The structure of the result field depends on the request method.

```
{
  "id": <number, copied from request>,
  "method": "<string, copied from request>",
  "params": [ <array of data, copied from request> ],
  "result": <method specific>
}
```

Additional JSON resources

- <http://wiki.slimdevices.com/index.php/SqueezeJS> - Javascript library for talking to the server.

JSON methods

slim.request

This method provides access to the same commands provided by the CLI API, with the command and parameters wrapped in a JSON object.

It also provides access to commands **not** available through the CLI API.

The value of the **params** field is a two-element array.

The first value in the array is either the empty string, to indicate that this is a command for the server, or a string containing a player ID, indicating that this is a player specific command.

The second value in the array is an array containing the command to run (first item), and the parameters for that command (second and subsequent items).

In the example below the repeated id, method, and params fields will be omitted from the response.

serverstatus

```
{"id": 1,"method": "slim.request", "params": [ "", ["serverstatus", 0, 999]]}
```

```
{
  <... omitted request fields ...>
  "result": {
    "lastscan": "1404229021",
    "version": "7.7.2",
    "uuid": "74ae93ce-ca47-4add-a1d9-76391c4b23e4",
    "info total albums": 1471,
    "info total artists": 710,
    "info total genres": 151,
    "info total songs": 19524,
    "player count": 1,
    "players_loop": [
      {
        "playerid": "00:04:20:1e:38:c2",
        "uuid": "1546876ba5433847dc8b67eabade380a",
        "ip": "192.168.2.101:23164",
```

```

    "name": "Lounge Squeezebox",
    "seq_no": 0,
    "model": "boom",
    "power": "1",
    "displaytype": "graphic-160x32",
    "canpoweroff": 1,
    "connected": 1,
    "isplayer": 1
  }
],
"sn player count": 0,
"other player count": 1,
"other_players_loop": [
  {
    "playerid": "00:25:22:28:8e:6e",
    "name": "Lite",
    "model": "squeezeplay",
    "server": "PC Server",
    "serverurl": "http://192.168.2.104:9000/"
  }
]
}
}

```

version

```

{"id":1,"method":"slim.request","params":["","version","?"]}

{
  <... omitted request fields ...>
  "result": {
    "_version": "7.9.0" // Note leading underscore in response string. Why?
  }
}

```

<playerid> menu

Used to construct the menu items that should be shown for this player. Returns a relatively flat data structure that contains the entire menu tree for the connected player.

[See also documentation at <http://wiki.slimdevices.com/index.php/SqueezeCenterSqueezePlayInterface>, although that seems more focused on the code that creates this structure than parsing it]

```

{"id":1,"method":"slim.request","params":["00:25:22:28:8e:6e","menu",0,500,"direct:1"]}

{
  <... omitted request fields ...>
  "result": {

```

```
"count": 54,
"item_loop": [
  {
    "text": "My Music",
    "weight": 11,
    "id": "myMusic",
    "isANode": 1,
    "node": "home"
  },
  {
    "actions": {
      "go": {
        "params": {
          "menu": "favorites"
        },
        "cmd": [
          "favorites",
          "items"
        ]
      }
    },
    "text": "Favorites",
    "weight": 100,
    "id": "favorites",
    "node": "home"
  },
  {
    "actions": {
      "go": {
        "params": {
          "menu": "appgallery"
        },
        "cmd": [
          "appgallery",
          "items"
        ],
        "player": 0
      }
    },
    "window": {
      "icon-id": "plugins/AppGallery/html/images/icon.png",
      "titleStyle": "album"
    },
    "displayWhenOff": 0,
    "uuid": "855EC660-D604-4B08-B06C-E6991DA83D34",
    "node": "home",
    "text": "App Gallery",
    "weight": 90,
```

```

    "id": "opmlappgallery"
  },
  {
    "actions": {
      "go": {
        "params": {
          "menu": "selectVirtualLibrary"
        },
        "cmd": [
          "selectVirtualLibrary",
          "items"
        ],
        "player": 0
      }
    },
    "window": {
      "icon-id": "plugins/ExtendedBrowseModes/html/icon.png",
      "titleStyle": "album"
    },
    "displayWhenOff": 0,
    "uuid": "6e5e0a00-e18a-11e3-8b68-0800200c9a66",
    "node": "myMusic",
    "text": "Switch Library View",
    "weight": 100,
    "id": "opmlselectVirtualLibrary"
  },
  {
    "actions": {
      "go": {
        "params": {
          "menu": "imagebrowser"
        },
        "cmd": [
          "imagebrowser",
          "items"
        ],
        "player": 0
      }
    },
    "window": {
      "icon-id": "plugins/ImageBrowser/html/images/icon.png",
      "titleStyle": "album"
    },
    "displayWhenOff": 0,
    "uuid": "e102b4d0-b86a-11e0-aff2-0800200c9a66",
    "node": "extras",
    "text": "Image Browser",
    "weight": 1000,

```

```
"id": "opmlimagebrowser"
},
{
  "actions": {
    "go": {
      "params": {
        "menu": "myapps"
      },
      "cmd": [
        "myapps",
        "items"
      ],
      "player": 0
    }
  },
  "window": {
    "icon-id": "plugins/MyApps/html/images/icon.png",
    "titleStyle": "album"
  },
  "displayWhenOff": 0,
  "uuid": "2E3ACD53-B9A8-4440-9C5B-517B1EB28E34",
  "node": "home",
  "text": "My Apps",
  "weight": 80,
  "id": "opmlmyapps"
},
{
  "actions": {
    "go": {
      "params": {
        "menu": "presets"
      },
      "cmd": [
        "presets",
        "items"
      ],
      "player": 0
    }
  },
  "window": {
    "icon-id": "/plugins/RadioTime/html/images/radiopresets.png",
    "titleStyle": "album"
  },
  "displayWhenOff": 0,
  "uuid": null,
  "node": "radios",
  "text": "My Presets",
  "weight": 5,
```

```
"id": "opmlpresets"
},
{
  "actions": {
    "go": {
      "params": {
        "menu": "local"
      },
      "cmd": [
        "local",
        "items"
      ],
      "player": 0
    }
  },
  "window": {
    "icon-id": "/plugins/RadioTime/html/images/radiolocal.png",
    "titleStyle": "album"
  },
  "displayWhenOff": 0,
  "uuid": null,
  "node": "radios",
  "text": "Local",
  "weight": 20,
  "id": "opmllocal"
},
{
  "actions": {
    "go": {
      "params": {
        "menu": "music"
      },
      "cmd": [
        "music",
        "items"
      ],
      "player": 0
    }
  },
  "window": {
    "icon-id": "/plugins/RadioTime/html/images/radiomusic.png",
    "titleStyle": "album"
  },
  "displayWhenOff": 0,
  "uuid": null,
  "node": "radios",
  "text": "Music",
  "weight": 30,
```



```
"id": "opmlmusic"
},
{
  "actions": {
    "go": {
      "params": {
        "menu": "news"
      },
      "cmd": [
        "news",
        "items"
      ],
      "player": 0
    }
  },
  "window": {
    "icon-id": "/plugins/RadioTime/html/images/radionews.png",
    "titleStyle": "album"
  },
  "displayWhenOff": 0,
  "uuid": null,
  "node": "radios",
  "text": "News",
  "weight": 45,
  "id": "opmlnews"
},
{
  "actions": {
    "go": {
      "params": {
        "menu": "sports"
      },
      "cmd": [
        "sports",
        "items"
      ],
      "player": 0
    }
  },
  "window": {
    "icon-id": "/plugins/RadioTime/html/images/radiosports.png",
    "titleStyle": "album"
  },
  "displayWhenOff": 0,
  "uuid": null,
  "node": "radios",
  "text": "Sports",
  "weight": 40,
```

```
"id": "opmlsports"
},
{
  "actions": {
    "go": {
      "params": {
        "menu": "talk"
      },
      "cmd": [
        "talk",
        "items"
      ],
      "player": 0
    }
  },
  "window": {
    "icon-id": "/plugins/RadioTime/html/images/radiotalk.png",
    "titleStyle": "album"
  },
  "displayWhenOff": 0,
  "uuid": null,
  "node": "radios",
  "text": "Talk",
  "weight": 50,
  "id": "opmltalk"
},
{
  "actions": {
    "go": {
      "params": {
        "menu": "world"
      },
      "cmd": [
        "world",
        "items"
      ],
      "player": 0
    }
  },
  "window": {
    "icon-id": "/plugins/RadioTime/html/images/radioworld.png",
    "titleStyle": "album"
  },
  "displayWhenOff": 0,
  "uuid": null,
  "node": "radios",
  "text": "World",
  "weight": 60,
```

```

    "id": "opmlworld"
  },
  {
    "actions": {
      "go": {
        "params": {
          "menu": "language"
        },
        "cmd": [
          "language",
          "items"
        ],
        "player": 0
      }
    },
    "window": {
      "icon-id": "/plugins/RadioTime/html/images/radioworld.png",
      "titleStyle": "album"
    },
    "displayWhenOff": 0,
    "uuid": null,
    "node": "radios",
    "text": "By Language",
    "weight": 56,
    "id": "opmllanguage"
  },
  {
    "actions": {
      "go": {
        "params": {
          "search": "__TAGGEDINPUT__",
          "menu": "search"
        },
        "cmd": [
          "search",
          "items"
        ],
        "player": 0
      }
    },
    "window": {
      "icon-id": "/plugins/RadioTime/html/images/radiosearch.png",
      "titleStyle": "album"
    },
    "input": {
      "len": 1,
      "processingPopup": {
        "text": "Searching..."
      }
    }
  }

```

```

    },
    "help": {
        "text": "Use the scroll wheel to change letters, then press the center button to select that
letter. Press the center button again to start your search."
    },
    "softbutton2": "Delete",
    "title": "Search",
    "softbutton1": "Insert"
},
"displayWhenOff": 0,
"uuid": null,
"node": "radios",
"text": "Search",
"weight": 110,
"id": "opmlsearch"
},
{
    "actions": {
        "go": {
            "params": {
                "menu": "podcast"
            },
            "cmd": [
                "podcast",
                "items"
            ],
            "player": 0
        }
    },
    "window": {
        "icon-id": "/plugins/RadioTime/html/images/podcasts.png",
        "titleStyle": "album"
    },
    "displayWhenOff": 0,
    "uuid": null,
    "node": "radios",
    "text": "Podcasts",
    "weight": 70,
    "id": "opmlpodcast"
},
{
    "window": {
        "titleStyle": "random"
    },
    "text": "Random Mix",
    "weight": 60,
    "id": "randomplay",
    "node": "myMusic",

```

```

    "isANode": 1
  },
  {
    "actions": {
      "play": {
        "cmd": [
          "randomplay",
          "disable"
        ],
        "player": 0
      },
      "go": {
        "cmd": [
          "randomplay",
          "disable"
        ],
        "player": 0
      }
    },
    "text": "Stop Random Mix",
    "weight": 100,
    "style": "itemplay",
    "id": "randomdisable",
    "node": "randomplay",
    "nextWindow": "refresh"
  },
  {
    "actions": {
      "go": {
        "cmd": [
          "randomplaygenrelist"
        ],
        "player": 0
      }
    },
    "window": {
      "titleStyle": "random"
    },
    "text": "Choose Genres",
    "weight": 50,
    "id": "randomchoosegenres",
    "node": "randomplay"
  },
  {
    "actions": {
      "play": {
        "cmd": [
          "randomplay",

```

```

        "year"
      ],
      "player": 0
    },
    "go": {
      "cmd": [
        "randomplay",
        "year"
      ],
      "player": 0
    }
  },
  "text": "Year Mix",
  "weight": 40,
  "style": "itemplay",
  "id": "randomyears",
  "node": "randomplay",
  "nextWindow": "nowPlaying"
},
{
  "actions": {
    "play": {
      "cmd": [
        "randomplay",
        "contributors"
      ],
      "player": 0
    },
    "go": {
      "cmd": [
        "randomplay",
        "contributors"
      ],
      "player": 0
    }
  },
  "text": "Artist Mix",
  "weight": 30,
  "style": "itemplay",
  "id": "randomartists",
  "node": "randomplay",
  "nextWindow": "nowPlaying"
},
{
  "actions": {
    "play": {
      "cmd": [
        "randomplay",

```

```

        "albums"
    ],
    "player": 0
},
"go": {
    "cmd": [
        "randomplay",
        "albums"
    ],
    "player": 0
}
},
"text": "Album Mix",
"weight": 20,
"style": "itemplay",
"id": "randomalbums",
"node": "randomplay",
"nextWindow": "nowPlaying"
},
{
    "actions": {
        "play": {
            "cmd": [
                "randomplay",
                "tracks"
            ],
            "player": 0
        },
        "go": {
            "cmd": [
                "randomplay",
                "tracks"
            ],
            "player": 0
        }
    },
    "text": "Song Mix",
    "weight": 10,
    "style": "itemplay",
    "id": "randomtracks",
    "node": "randomplay",
    "nextWindow": "nowPlaying"
},
{
    "actions": {
        "go": {
            "params": {
                "menu": "picks"
            }
        }
    }
}

```

```

    },
    "cmd": [
        "picks",
        "items"
    ],
    "player": 0
}
},
"window": {
    "icon-id": "http://www.mysqueezebox.com/static/images/icons/picks.png",
    "titleStyle": "album"
},
"displayWhenOff": 0,
"uuid": null,
"node": "radios",
"text": "Staff Picks",
"weight": 10,
"id": "opmlpicks"
},
{
    "actions": {
        "do": {
            "cmd": [
                "power",
                0
            ],
            "player": 0
        }
    },
    "text": "Turn Off Lite",
    "weight": 100,
    "id": "playerpower",
    "node": "home"
},
{
    "text": "Audio",
    "weight": 35,
    "id": "settingsAudio",
    "node": "settings",
    "isANode": 1
},
{
    "selectedIndex": 1,
    "actions": {
        "do": {
            "choices": [
                {
                    "cmd": [

```



```

        "playlist",
        "repeat",
        "0"
    ],
    "player": 0
},
{
    "cmd": [
        "playlist",
        "repeat",
        "1"
    ],
    "player": 0
},
{
    "cmd": [
        "playlist",
        "repeat",
        "2"
    ],
    "player": 0
}
]
}
},
"text": "Repeat",
"choiceStrings": [
    "Off",
    "Song",
    "Playlist"
],
"weight": 20,
"id": "settingsRepeat",
"node": "settings"
},
{
    "selectedIndex": 1,
    "actions": {
        "do": {
            "choices": [
                {
                    "cmd": [
                        "playlist",
                        "shuffle",
                        "0"
                    ],
                    "player": 0
                }
            ]
        }
    }
},

```

```

        {
            "cmd": [
                "playlist",
                "shuffle",
                "1"
            ],
            "player": 0
        },
        {
            "cmd": [
                "playlist",
                "shuffle",
                "2"
            ],
            "player": 0
        }
    ]
},
"text": "Shuffle",
"choiceStrings": [
    "Off",
    "Song",
    "Album"
],
"weight": 10,
"id": "settingsShuffle",
"node": "settings"
},
{
    "actions": {
        "go": {
            "cmd": [
                "alarmsettings"
            ],
            "player": 0
        }
    },
    "text": "Alarm Clock",
    "weight": 29,
    "id": "settingsAlarm",
    "node": "settings"
},
{
    "actions": {
        "go": {
            "cmd": [
                "sleepsettings"
            ],

```

```

        ],
        "player": 0
    }
},
"text": "Sleep",
"weight": 65,
"id": "settingsSleep",
"node": "settings"
},
{
    "actions": {
        "go": {
            "cmd": [
                "syncsettings"
            ],
            "player": 0
        }
    },
    "text": "Synchronize",
    "weight": 70,
    "id": "settingsSync",
    "node": "settings"
},
{
    "actions": {
        "go": {
            "params": {
                "menu": 1
            },
            "cmd": [
                "systeminfo",
                "items"
            ]
        }
    },
    "text": "Squeezebox Information",
    "weight": 100,
    "id": "settingsInformation",
    "node": "advancedSettings"
},
{
    "actions": {
        "do": {
            "params": {
                "playername": "__INPUT__"
            },
            "cmd": [
                "name"
            ]
        }
    }
}

```

```

    },
    "player": 0
  }
},
"input": {
  "len": 1,
  "initialText": "Lite",
  "help": {
    "text": "Use the scroll wheel to change letters, then press the center button to select that
letter. Press the center button again to change the name of your player."
  },
  "softbutton2": "Delete",
  "allowedChars": "
abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ!@#$%^&*()_+{|:~\\"<>?-=,./~`[];01234
56789",
  "softbutton1": "Insert"
},
"text": "Squeezebox Name",
"weight": 67,
"id": "settingsPlayerNameChange",
"node": "settings"
},
{
  "iconStyle": "hm_settingsAudio",
  "actions": {
    "go": {
      "cmd": [
        "crossfadesettings"
      ],
      "player": 0
    }
  },
  "text": "Crossfade",
  "weight": 30,
  "id": "settingsXfade",
  "node": "settingsAudio"
},
{
  "iconStyle": "hm_settingsAudio",
  "actions": {
    "go": {
      "cmd": [
        "replaygainsettings"
      ],
      "player": 0
    }
  },
  "text": "Volume Adjustment",

```

```

    "weight": 40,
    "id": "settingsReplayGain",
    "node": "settingsAudio"
  },
  {
    "actions": {
      "go": {
        "cmd": [
          "audioscrobbler",
          "settings"
        ],
        "player": 0
      }
    },
    "text": "Last.fm Audioscrobbler",
    "weight": 100,
    "id": "audioscrobbler",
    "node": "advancedSettings"
  },
  {
    "actions": {
      "go": {
        "params": {
          "menu": "radio"
        },
        "cmd": [
          "radios"
        ]
      }
    },
    "window": {
      "menuStyle": "album"
    },
    "text": "Radio",
    "weight": 20,
    "id": "radios",
    "node": "home"
  },
  {
    "iconStyle": "hm_advancedSettings",
    "actions": {
      "go": {
        "params": {
          "menu": "radio"
        },
        "cmd": [
          "jivealbumssettings"
        ]
      }
    }
  }

```

```

    }
  },
  "text": "Albums Sort Method",
  "weight": 105,
  "id": "settingsAlbumSettings",
  "node": "advancedSettings"
},
{
  "icon": "html/images/albums.png",
  "actions": {
    "go": {
      "params": {
        "mode": "vaalbums",
        "artist_id": "64",
        "menu": 1
      },
      "cmd": [
        "browselibrary",
        "items"
      ]
    }
  },
  "text": "Compilations",
  "weight": 22,
  "homeMenuText": "Compilations",
  "id": "myMusicAlbumsVariousArtists",
  "node": "myMusic"
},
{
  "actions": {
    "go": {
      "params": {
        "sort": "new",
        "mode": "albums",
        "menu": 1,
        "wantMetadata": "1"
      },
      "cmd": [
        "browselibrary",
        "items"
      ]
    }
  },
  "text": "New Music",
  "weight": 50,
  "homeMenuText": "New Music",
  "id": "myMusicNewMusic",
  "node": "myMusic"
}

```

```

},
{
  "icon": "html/images/artists.png",
  "actions": {
    "go": {
      "params": {
        "mode": "artists",
        "menu": 1,
        "role_id": "ALBUMARTIST"
      },
      "cmd": [
        "browselibrary",
        "items"
      ]
    }
  },
  "text": "Album Artists",
  "weight": 9,
  "homeMenuText": "Browse Album Artists",
  "id": "myMusicArtistsAlbumArtists",
  "node": "myMusic"
},
{
  "actions": {
    "go": {
      "params": {
        "mode": "playlists",
        "menu": 1
      },
      "cmd": [
        "browselibrary",
        "items"
      ]
    }
  },
  "text": "Playlists",
  "weight": 80,
  "id": "myMusicPlaylists",
  "node": "myMusic"
},
{
  "actions": {
    "go": {
      "params": {
        "mode": "bmf",
        "menu": 1
      },
      "cmd": [

```

```

        "browselibrary",
        "items"
    ]
}
},
"text": "Music Folder",
"weight": 70,
"homeMenuText": "Music Folder",
"id": "myMusicMusicFolder",
"node": "myMusic"
},
{
    "actions": {
        "go": {
            "params": {
                "mode": "search",
                "menu": 1
            },
            "cmd": [
                "browselibrary",
                "items"
            ]
        }
    },
    "text": "Search",
    "weight": 90,
    "id": "myMusicSearch",
    "node": "myMusic"
},
{
    "icon": "html/images/albums.png",
    "actions": {
        "go": {
            "params": {
                "mode": "albumsWithFrickinLongTracks",
                "menu": 1,
                "library_id": "88db7f2e"
            },
            "cmd": [
                "browselibrary",
                "items"
            ]
        }
    },
    "text": "Albums with outros and other longish tracks",
    "weight": 25,
    "homeMenuText": "Albums with outros and other longish tracks",
    "id": "albumsWithFrickinLongTracks",

```



```

    "node": "myMusic"
  },
  {
    "icon": "html/images/artists.png",
    "actions": {
      "go": {
        "params": {
          "mode": "artists",
          "menu": 1,
          "role_id": "ALBUMARTIST,ARTIST,BAND,COMPOSER,CONDUCTOR,TRACKARTIST"
        },
        "cmd": [
          "browselibrary",
          "items"
        ]
      }
    },
    "text": "All Artists",
    "weight": 11,
    "homeMenuText": "All Artists",
    "id": "myMusicArtistsAllArtists",
    "node": "myMusic"
  },
  {
    "icon": "html/images/artists.png",
    "actions": {
      "go": {
        "params": {
          "mode": "artistsWithFrickinLongTracks",
          "menu": 1,
          "library_id": "88db7f2e"
        },
        "cmd": [
          "browselibrary",
          "items"
        ]
      }
    },
    "text": "Artists loving long tracks",
    "weight": 15,
    "homeMenuText": "Artists loving long tracks",
    "id": "artistsWithFrickinLongTracks",
    "node": "myMusic"
  },
  {
    "actions": {
      "go": {
        "params": {

```

```

        "mode": "albums",
        "menu": 1
    },
    "cmd": [
        "browselibrary",
        "items"
    ]
},
{
    "text": "Albums",
    "weight": 20,
    "homeMenuText": "Browse Albums",
    "id": "myMusicAlbums",
    "node": "myMusic"
},
{
    "actions": {
        "go": {
            "params": {
                "mode": "genres",
                "menu": 1
            },
            "cmd": [
                "browselibrary",
                "items"
            ]
        }
    },
    "text": "Genres",
    "weight": 30,
    "homeMenuText": "Browse Genres",
    "id": "myMusicGenres",
    "node": "myMusic"
},
{
    "actions": {
        "go": {
            "params": {
                "mode": "years",
                "menu": 1
            },
            "cmd": [
                "browselibrary",
                "items"
            ]
        }
    },
    "text": "Years",

```

```

    "weight": 40,
    "homeMenuText": "Browse Years",
    "id": "myMusicYears",
    "node": "myMusic"
  },
  {
    "actions": {
      "go": {
        "params": {
          "menu": "deezer"
        },
        "cmd": [
          "deezer",
          "items"
        ],
        "player": 0
      }
    },
    "window": {
      "icon-id": "http://www.mysqueezebox.com/static/images/icons/deezer.png",
      "titleStyle": "album"
    },
    "displayWhenOff": 0,
    "node": "",
    "uuid": "5B30DC4B-FACD-455D-8385-D0B030DED8A7",
    "text": "Deezer",
    "weight": 25,
    "id": "opmldeezer",
    "isApp": 1
  },
  {
    "actions": {
      "go": {
        "params": {
          "opml_url":
"http://www.mysqueezebox.com/static/picks/split/Absolute%20Radio%20UK.opml",
          "menu": "opml_generic"
        },
        "cmd": [
          "opml_generic",
          "items"
        ],
        "player": 0
      }
    },
    "window": {
      "icon-id": "http://www.mysqueezebox.com/static/images/icons/absolute.png"
    },
  },

```

```

    "text": "Absolute Radio UK",
    "weight": 26,
    "displayWhenOff": 0,
    "id": "opmlabsoluteradio",
    "node": "",
    "isApp": 1
  },
  {
    "actions": {
      "go": {
        "params": {
          "opml_url":
"http://www.mysqueezebox.com/static/picks/split/BBC%20%28International%29.opml",
          "menu": "opml_generic"
        },
        "cmd": [
          "opml_generic",
          "items"
        ],
        "player": 0
      }
    },
    "window": {
      "icon-id": "http://www.mysqueezebox.com/static/images/icons/bbc.png"
    },
    "text": "BBC",
    "weight": 27,
    "displayWhenOff": 0,
    "id": "opmlbbc",
    "node": "",
    "isApp": 1
  },
  {
    "actions": {
      "go": {
        "params": {
          "search": "__TAGGEDINPUT__",
          "menu": "globalsearch"
        },
        "cmd": [
          "globalsearch",
          "items"
        ]
      }
    },
    "input": {
      "len": 1,
      "processingPopup": {

```

```

        "text": "Searching..."
    },
    "help": {
        "text": "Use the scroll wheel to change letters, then press the center button to select that
letter. Press the center button again to start your search."
    }
},
"window": {
    "text": "Search"
},
"homeMenuText": "Search",
"node": "home",
"text": "Search",
"weight": 22,
"id": "globalSearch"
}
],
"offset": 0
}
}

```

<playerid> favorites

Sent when selecting the top level “Favorites” menu from the player home screen. The menu entry generated the following request

```

{"id":1,"method":"slim.request","params":["00:25:22:28:8e:6e","favorites","items",0,999999,"menu:favorites",
useContextMenu:1"]}

```

```

{
    <... omitted request fields ...>
    "result": {
        "offset": 0,
        "title": "Favorites",
        "base": {
            "actions": {
                "add-hold": {
                    "params": {
                        "menu": "favorites"
                    },
                    "itemsParams": "params",
                    "cmd": [
                        "favorites",
                        "playlist",
                        "insert"
                    ],
                    "player": 0
                }
            }
        }
    }
}

```

```
"playControl": {
  "params": {
    "_index": "0",
    "_quantity": 999999,
    "menu": "favorites",
    "useContextMenu": "1"
  },
  "itemsParams": "playControlParams",
  "cmd": [
    "favorites",
    "items"
  ],
  "window": {
    "isContextMenu": 1
  },
  "player": 0
},
"add": {
  "params": {
    "menu": "favorites"
  },
  "itemsParams": "params",
  "cmd": [
    "favorites",
    "playlist",
    "add"
  ],
  "player": 0
},
"play": {
  "params": {
    "menu": "favorites"
  },
  "itemsParams": "params",
  "cmd": [
    "favorites",
    "playlist",
    "play"
  ],
  "player": 0,
  "nextWindow": "nowPlaying"
},
"more": {
  "params": {
    "menu": "favorites"
  },
  "itemsParams": "params",
  "window": {
```

```

        "isContextMenu": 1
    },
    "cmd": [
        "favorites",
        "items"
    ],
    "player": 0
},
"go": {
    "params": {
        "menu": "favorites"
    },
    "itemsParams": "params",
    "cmd": [
        "favorites",
        "items"
    ]
}
},
"item_loop": [
    {
        "actions": {
            "go": {
                "params": {
                    "menu": "favorites",
                    "item_id": "57171beb.0"
                },
                "cmd": [
                    "favorites",
                    "items"
                ]
            }
        },
        "addAction": "go",
        "icon-id": "html/images/favorites.png",
        "text": "On mysqueezebox.com"
    }
],
"count": 1,
"window": {
    "windowStyle": "home_menu"
}
}
}

```

<playerid> status

```
{
  "id": 1, "method": "slim.request", "params": [
    "00:25:22:28:8e:6e", ["status", "-", 1, "tags:cgABbehldiqtyrSuoKLN"]
  ]
}
{
  <... omitted request fields ...>
  "result": {
    "player_name": "Lite",
    "player_connected": 1,
    "player_ip": "192.168.2.104:62405",
    "power": 1,
    "signalstrength": 0,
    "mode": "stop",
    "mixer volume": 67,
    "playlist repeat": 0,
    "playlist shuffle": 0,
    "playlist mode": "off",
    "seq_no": "3",
    "playlist_tracks": 0
  }
}
```

Comet

Haven't looked in to this much yet.

The reference Comet client implementation for Java is http://docs.cometd.org/3/reference/#_java_client. It's on GitHub, client code in <https://github.com/cometd/cometd/blob/master/cometd-java/cometd-java-client/src/main/java/org/cometd/client/BayeuxClient.java>, JavaDoc at <http://docs.cometd.org/apidocs/org/cometd/client/BayeuxClient.html>.

Various resources online suggest that the server does not necessarily follow the Comet spec properly

- <http://forums.slimdevices.com/showthread.php?79108-Getting-Started-Using-Comet>
- <http://forums.slimdevices.com/showthread.php?92770-trying-to-connect-via-comet>
- <http://forums.slimdevices.com/showthread.php?101094-JSON-RPC-Notes>

I initially thought this might only be for receiving asynchronous information from the server as events happen (i.e., the same way you get async server stats from the CLI interface) but [http://forums.slimdevices.com/showthread.php?93877-Requests-made-through-comet-\(-slim-request\)-and-JSON-RPC-have-different-effects&highlight=comet](http://forums.slimdevices.com/showthread.php?93877-Requests-made-through-comet-(-slim-request)-and-JSON-RPC-have-different-effects&highlight=comet) suggests that there's a /slim/request channel that can be used to send requests to the server.