



SGMETADATA API DOCUMENTATION

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INTRODUCTION

This document covers client-side JavaScript integration for the SGmetadata service using REST API requests and Socket.io web sockets. After performing the integration steps outlined in this document, your page will display in-stream metadata by a) Requesting metadata at load time, or b) Opening a persistent socket connection to SGmetadata at load time and handling metadata update push events from the server.

INTEGRATION REQUIREMENTS

In order to integrate with SGmetadata you will need the following:

- 1) An account on SGmetadata with at least 1 metadata scraper running.
- 2) A SGmetadata API key. This will be provided to you by StreamGuys technical support. This key will grant your page(s) access to the SGmetadata API.
- 3) One SGmetadata scraper UUID per station you wish to retrieve metadata for. These will be provided to you by StreamGuys technical support. These ids allow you to request metadata for a specific scraper in the system.
- 4) If performing a push-based integration, the Socket.io JavaScript client must be included in the head of your page. See the [Socket.io Client Integration](#) section for more details.

REST API JAVASCRIPT CLIENT INTEGRATION PROCEDURE

If you wish to write your own custom REST API client, skip to the [REST API Endpoints](#) section. Otherwise, perform the following steps to add SGmetadata REST API support to your page.

- 1) Download the SGMetadata client JavaScript file from:
<https://jet.streamguys.com/js/sgmetadata-client.js>
- 2) Include the SGmetadata client JavaScript in the head of your page:

```
<script src="sgmetadata-client.js" type="text/javascript"></script>
```


REST API JAVASCRIPT CLIENT

The functions available to the JavaScript SGMetadata client are detailed below. The client may be downloaded here:

<http://example.streamguys.com/sgmetadata/sgmetadata-client.js>

A live example may be seen here: <http://example.streamguys.com/sgmetadata/api.html>

Constructor: SGMetadata(config)

Invoke the SGMetadata constructor to create a new SGMetadata API client instance that can be used to issue API requests.

PARAMETERS:

- 1) **(Object) config** – The main SGMetadata client configuration object. This object extends and overrides the default settings of the SGMetadata class. The config object may have the following properties:
 - a. **[Required] (String) apiKey** – The SGMetadata account API key to use for this instance's API requests. This config parameter is required for any API request functions to succeed.
 - b. **[Optional] (String) apiBase** – The base URL string to use when constructing api request endpoints. Includes protocol, domain, and port. Only change this if instructed to by StreamGuys. Example: `https://jetapi.streamguys.com`
 - c. **[Optional] (Object) endpoints** – An object that maps endpoint names to REST API endpoint path strings. Used to construct the final portion of the api request URL string. Only change this if instructed to by StreamGuys.

Example:

```
endpoints: {
  //Returns a single metadadata object
  current: '/metadata',
  //Returns the entire metadata array of a scraper
  metadata: '/metadata/all',
  //Returns a single raw metadata string
  currentRaw: '/metadata/raw',
  //Returns the entire array of raw metadata strings.
  metadataRaw: '/metadata/raw/all'
```



```
sgmd.getSmartMetadata(monitorUUID, function(smartMetadata) {  
    //Handle the smart metadata object from the api response.  
    console.log("Smart Metadata streamTitle: "+smartMetadata.streamTitle);  
    console.log("Smart Metadata streamUrl: "+smartMetadata.streamUrl);  
    console.log("Smart Metadata data: ", smartMetadata.data);  
});
```

Function: SGMetadata.getSmartMetadataPage(uuid, pageNumber, pageSize, callback(smartMetadataPage){})

This function requests requests a single page of smart metadata objects from the entire history of metadata objects for the Smart Monitor matching the given UUID. The smartMetadataPage passed to the callback contains an array of smart metadata objects with the same properties as the single response object returned by SGMetadata.getSmartMetadata().

PARAMETERS:

- 1) **(String) uuid** – The SGmetadata unique id string matching the Smart Monitor you wish to request metadata for.
- 2) **(Integer) pageNumber** – The page number you'd like your paginated response data to begin on.
- 3) **(Integer) pageSize** – The number of smart metadata entries you'd like to receive per-page.
- 4) **(Function) callback(metadata)** – The function that will be invoked with response data when the api request is complete.

RESULTS:

The **smartMetadataPage** parameter passed to the callback is a smart metadata object with the following properties:

(Object) meta – The object with pagination details to aid in formulating subsequent requests for paginated data from this smart monitor.

REST API ENDPOINTS

The SGmetadata REST API endpoints are detailed below. For each endpoint request replace `<API_KEY>` with your account API key provided by StreamGuys and replace `<SCRAPER_UUID>` with the UUID for the metadata scraper you wish to retrieve metadata from.

Endpoint: Current Metadata

Send a GET request to the following endpoint to request a JSON payload containing the single most recent metadata object:

```
https://jetapi.streamguys.com/<API_KEY>/scraper/<SCRAPER_UUID>/metadata
```

EXAMPLE RESPONSE:

```
{"StreamTitle":"Vicky Emerson - Flight","date":"Thu Dec 08 2016 13:42:21 GMT-0600 (CST)","timestamp":1481226141687}
```

The response JSON object will have the following properties:

Property Name: StreamTitle

Type: String

Description: The most recent in-stream metadata string recorded by the metadata scraper. This string will contain all metadata from the streaming server's StreamTitle field.

Example: Vicky Emerson - Flight

Property Name: StreamUrl

Type: String or Undefined

Description: The most recent StreamUrl metadata string recorded by the metadata scraper. This string will contain all metadata from the streaming server's StreamUrl field. If the stream does not receive StreamUrl metadata from the encoder, then this field will not be present in the JSON response to the API request.

Example:

```
?autoID=OM39&autoCat=OM1&sec=130&dur=125&cat=music&album=&Label=&YearSG=&Field1=&Field2=
```

Property Name: date

Type: String

Description: The date of when the metadata changed. This property is localized to SGmetadata server time (Central Standard Time).

Example: Thu Dec 08 2016 13:42:21 GMT-0600 (CST)

Property Name: timestamp

Type: Integer

Description: The epoch timestamp (in milliseconds) of when the metadata changed. This property can be used to build a date string localized to the client's time zone.

Example: 1481226141687

Endpoint: All Metadata

Send a GET request to the following endpoint to request a JSON payload containing an array of all metadata objects for the scraper:

```
https://jetapi.streamguys.com/<API_KEY>/scraper/<SCRAPER_UUID>/metadata/all
```

EXAMPLE RESPONSE:

```
[{"StreamTitle":"Vicky Emerson - Flight","date":"Thu Dec 08 2016 13:42:21 GMT-0600 (CST)","timestamp":1481226141687}, {"StreamTitle":"Beatrix Becker - La Gatita Loca","date":"Thu Dec 08 2016 13:39:39 GMT-0600 (CST)","timestamp":1481225979059}, {"StreamTitle":"Whisperings - Customize Your Playlist with the Whisperings Player...","date":"Thu Dec 08 2016 13:38:16 GMT-0600 (CST)","timestamp":1481225896438}, {"StreamTitle":"Whisperings - Get Your Copy! Whisperings Solo Piano Vol. 1 and 2","date":"Thu Dec 08 2016 13:37:06 GMT-0600 (CST)","timestamp":1481225826913}, {"StreamTitle":"Catherine Marie Charlton - Shenandoah (Folk Song)","date":"Thu Dec 08 2016 13:29:57 GMT-0600 (CST)","timestamp":1481225397561}, {"StreamTitle":"Christopher Boscole - Takako","date":"Thu Dec 08 2016 13:23:39 GMT-0600 (CST)","timestamp":1481225019114}]
```

Each object in the response JSON array will have the same properties as the single response from the [Current Metadata](#) endpoint.

Endpoint: Current Raw Metadata

Send a GET request to the following endpoint to request a single string response containing the most recent unprocessed metadata string directly from the stream. If the encoder is receiving StreamUrl metadata, this endpoint will return a string response containing both the StreamTitle field and the StreamUrl field:

```
https://jetapi.streamguys.com/<API_KEY>/scraper/<SCRAPER_UUID>/metadata/raw
```

EXAMPLE RESPONSE:

```
"StreamTitle='Vicky Emerson - Flight';"
```

EXAMPLE RESPONSE WITH STREAMURL:

```
"StreamTitle='JOHN MELLENCAMP - Paper In Fire';StreamUrl='?autoID=OY49&autoCat=OM1&sec=227&dur=205&cat=music&album=&Label=&YearSG=&Field1=&Field2=';"
```

Endpoint: All Raw Metadata

Send a GET request to the below endpoint to request a JSON payload containing an array of all metadata strings for the scraper.

```
https://jetapi.streamguys.com/<API_KEY>/scraper/<SCRAPER_UUID>/metadata/raw/all
```

EXAMPLE RESPONSE:

```
["StreamTitle='Vicky Emerson - Flight';", "StreamTitle='Beatrix Becker - La Gatita Loca';", "StreamTitle='Whisperings - Customize Your Playlist with the Whisperings Player...';", "StreamTitle='Whisperings - Get Your Copy! Whisperings Solo Piano Vol. 1 and 2';", "StreamTitle='Catherine Marie Charlton - Shenandoah (Folk Song)';", "StreamTitle='Christopher Boscole - Takako';"]
```

Each entry in the JSON response array is a raw metadata string with the same formatting as metadata strings returned from the [Current Raw Metadata](#) endpoint.

Endpoint: Smart Metadata

Send a GET request to the below endpoint to request a JSON payload containing an array of all smart metadata objects for a particular Smart Monitor.

```
https://jetapi.streamguys.com/<API_KEY>  
/smartmetadata/monitor/<MONITOR_UUID>/metadata?page=<PAGE_NUMBER>&size=<PAGE_SIZE>
```

Replace **<MONITOR_UUID>** with the UUID value for the Smart Monitor you wish to retrieve metadata from.

Replace **<PAGE_NUMBER>** with the page number that your paginated results should begin on.

Replace **<PAGE_SIZE>** with the number of results you want per page.

To iterate the entire metadata set for a Smart Monitor, make a request with **<PAGE_NUMBER>** equal to 1 and **<PAGE_SIZE>** set to a reasonable value (anywhere from 10 to 100). The larger **<PAGE_SIZE>** is, the longer results take to process. After receiving results, increment your **<PAGE_NUMBER>** value and make another request. Continue this until your **<PAGE_NUMBER>** value matches the **lastPage** value from the results of your first request.

EXAMPLE RESPONSE

```
{  
  "data": [  
    {  
      "streamTitle": "Ave Maria - Greg Maroney - Hymns Healing  
Piano Solos",  
      "streamUrl": "isrc=USDY41639233&label=Hen House  
Records&duration=00:07:00",  
      "data": {  
        "type": "real-time",  
        "timestamp_utc": "2020-06-05 22:58:43",  
        "music": [  
          {  
            "album": {  
              "name": "Hymns Healing Piano Solos"            }  
          }  
        ]  
      }  
    }  
  ]  
}
```

```
    },
    "play_offset_ms": 16640,
    "sample_begin_time_offset_ms": 140,
    "title": "Ave Maria",
    "result_from": 1,
    "release_date": "2016-06-10",
    "sample_end_time_offset_ms": 9060,
    "label": "Hen House Records",
    "duration_ms": 420780,
    "score": 100,
    "db_begin_time_offset_ms": 7820,
    "artists": [
      {
        "name": "Greg Maroney"
      }
    ],
    "db_end_time_offset_ms": 16740,
    "external_ids": {
      "isrc": "USDY41639233",
      "upc": "888295451420"
    },
    "external_metadata": {}
  }
]
}
],
"meta": {
  "currentPage": 1,
  "lastPage": 326,
  "perPage": 1,
  "from": 0,
  "to": 0,
  "total": 326
}
}
```

The response JSON object will have the following properties:

Property Name: data

Type: array

Description: The array of Metadata objects for the Smart Monitor belonging to the UUID in the request. Contains the following properties:

streamTitle: The formatted stream title string built from the smart monitor metadata contained in the data property.

streamUrl: The formatted stream url string built from the smart monitor metadata contained in the data property.

data: An object containing various metadata fields that was used to generate the streamTitle and streamUrl strings.

Example: [{"streamTitle":"Island - Wayne Gratz - A Gift Of The Sea", "streamUrl":"isrc=USNA19614748&label=Narada&duration=00:05:43", "data":{"type":"real-time", "timestamp_utc":"2020-06-05 23:49:26", "music":[{"album":{"name":"A Gift Of The Sea"}}, {"play_offset_ms":20480, "genres":[{"name":"Alternative"}, {"name":"Jazz"}, {"name":"Pop"}]}, {"contributors":{"composers":["Wayne Gratz"]}], "title":"Island", "result_from":3, "release_date":"1996-05-21", "sample_end_time_offset_ms":9260, "sample_begin_time_offset_ms":0, "label":"Narada", "duration_ms":343266, "score":100, "db_begin_time_offset_ms":11520, "artists":[{"name":"Wayne Gratz"}], "db_end_time_offset_ms":20780, "external_ids":{"isrc":"USNA19614748", "upc":"083616105451"}, "external_metadata":{"spotify":{"track":{"id":"2ssKYdh1Fd3sg9usFkAgGa"}, "album":{"id":"63CeLKhN6iBivWHnOYg7di"}, "artists":[{"id":"18xSLnaLxBTsXjqkVvPzEk"}]}, "musicstory":{"track":{"id":"2297860"}}, "deezer":{"track":{"id":"3229938"}, "album":{"id":"308813"}, "artists":[{"id":"215433"}]}, "youtube":{"vid":"sRdr0kgca88"}]}]}, {"streamTitle":"A Light In the Dark of Night - Josh Johnston - The Shape of Things", "streamUrl":"isrc=IEADN1000011&label=Shandon Records&duration=00:03:37", "data":{"type":"real-time", "timestamp_utc":"2020-06-05 23:44:06", "music":[{"album":{"name":"The Shape of Things"}}, {"play_offset_ms":21140, "genres":[{"name":"Pop"}, {"name":"Rock"}]}, {"title":"A Light In the Dark of Night", "result_from":3, "release_date":"2010-09-25", "sample_end_time_offset_ms":9260, "sample_begin_time_offset_ms":0, "label":"Shandon Records", "duration_ms":217960, "score":100, "db_begin_time_offset_ms":11880, "artists":[{"name":"Josh Johnston"}], "db_end_time_offset_ms":21140, "external_ids":{"isrc":"IEADN1000011", "upc":"5391512446611"}, "external_metadata":{"spotify":{"track":{"id":"4B50Cx22jDXZOe6x7ZXPeF"}, "album":{"id":"5JFlu8erBz0rfZ6EtriKZF"}, "artists":[{"id":"1uB6PEEeNCQ80eIrW8YS5y"}]}, "deezer":{"track":{"id":"7105229"}, "album":{"id":"655235"}, "artists":[{"id":"804895"}]}]}]}]}

Property Name: meta

Type: object

Description: An object containing pagination information about the entire set of response data. Contains the following properties:

currentPage: The page the current results set belongs to.

lastPage: The page number of the last page in the results set.

perPage: The number of data items on each page of the result set.

from: The item number the result set begins with.

to: The item number the result set ends with.

total: The total number of items in the entire result set.

Example:

```
{"currentPage":1,"lastPage":172,"perPage":2,"from":0,"to":1,"total":344}}
```

SOCKET INTEGRATION PROCEDURE

Perform the following steps to add SGmetadata push support to your page. For more detailed integration directions, see the [socket.io functions](#) entry for each function call and event registration listed in the steps below as well as the [SGmetadata Socket Integration example](#) section.

- 1) Include socket.io client JavaScript on your page. See the [Socket.io Client Integration](#) section.
- 2) Create a socket by calling `io.connect()`
- 3) Register a `socket.on('connect')` event handler function that contains a call to `socket.emit('listen', scraperUuid)`. This will set your socket to listen for metadata events from your scraper once it is connected.
- 4) Register a `socket.on('metadata')` event handler function. This function will be called every time new metadata for your scraper is pushed through the socket connection. This handler function is where you will place your application logic that deals with metadata sent from the server.
- 5) (Optionally) Register a `socket.on('disconnect')` event handler function. This function will be called every time the socket is disconnected from the server.

SOCKET.IO CLIENT INTEGRATION

Before your page can connect to the SGmetadata server, the socket.io client JavaScript file must be included in your page's head tag. Add the following script tag to your page's head tag:

```
<script type="text/javascript"
src="//jetio.streamguys.com/socket.io/socket.io.js"></script>
```

This is the Socket.io client JavaScript served by the SGmetadata system's servers.

If you would rather host the Socket.io client JavaScript yourself, please perform the integration directions on the “*Getting the Socket.io Client*” section of Socket.io’s download page: <http://socket.io/download/>

SOCKET.IO FUNCTIONS

For a complete list of socket.io client functions see: <http://socket.io/docs/client-api/>

The socket.io calls used by SGmetadata are listed below:

Function: `io.connect()`

This function sets up the socket.io connection to the SGmetadata server. All subsequent SGmetadata event bindings will be attached to the socket object returned by calling `io.connect()`.

PARAMETERS:

- 1) **(String) url** – The socket server url string to connect to. For HTTP pages, use: [//jetio.streamguys.com](http://jetio.streamguys.com) or <http://jetio.streamguys.com>
For HTTPS pages use: [//jetio.streamguys.com](https://jetio.streamguys.com) or <https://jetio.streamguys.com>
- 2) **(Object) options** – socket.io configuration options object. See socket.io’s client-api page for complete documentation of available options. SGmetadata requires at least the 2 following options:

```
{ 'forceNew': true, 'query': 'key='+YOUR_API_KEY }
```

RETURNS:

(Object) socket – A socket.io socket instance. SGmetadata event listeners will be registered to this.

Function: `socket.disconnect()`

This function terminates the socket connection to the SGmetadata server. It should be called on the `socket` object returned by the initial call to `io.connect()`.

This function has no parameters and returns nothing.

SOCKET.IO EMIT CHANNELS

Use these channels with `socket.emit()` calls to send messages to the SGmetadata server over a connected socket.

Channel: `listen`

Call `socket.emit('listen', uuid)` after the `socket.on('connect')` listener has called back to begin listening for metadata events from a scraper matching the given UUID. The first emit of the `listen` channel on a socket will trigger the server to call the `socket.metadata` event with the scraper's current metadata object. Every time scraper metadata changes after `listen` has been emitted, the `socket.metadata` event will be triggered with new scraper metadata from the server.

PARAMETERS:

- 1) **(String) uuid** – The UUID string of the metadata scraper you wish to listen to metadata from.
- 2) **(optional)(Boolean) raw** – Set this to true if you want 'raw' metadata from the server. Raw metadata is not run through server-side special character decoding. In most cases this should be omitted or set to false.

Channel: monitor

Call `socket.emit('monitor', uuid)` after the `socket.on('connect')` listener has called back to begin listening for Smart Metadata events from a Smart Monitor matching the given UUID. The first emit of the `monitor` channel on a socket will trigger the server to call the socket `smartMetadata` event with the monitor's current Smart Metadata object. Every time Smart Monitor metadata changes after `monitor` has been emitted, the socket `smartMetadata` event will be triggered with new Smart Metadata from the server.

PARAMETERS:

- 3) **(String) uuid** – The UUID string of the Smart Monitor you wish to listen to metadata from.

Channel: stop

Call `socket.emit('stop', uuid)` on a connected socket to stop listening to metadata events from the scraper matching the given UUID. This call may be followed up with a new `socket.emit('listen', newUuid)` call if you wish to then listen to metadata from a different scraper.

PARAMETERS:

- (String) uuid** – The UUID string to stop listening to.

Channel: getMetadata

Call `socket.emit('getMetadata', uuid)` to manually trigger a `metadata` event from the server. Use this when you wish to fetch metadata before it has been pushed from the server. This function should not be used in the most common use cases.

PARAMETERS:

- 1) **(String) uuid** – The UUID string of the metadata scraper you wish to get metadata from.
- 2) **(optional)(Boolean) raw** – Set this to true if you want 'raw' metadata from the server. Raw metadata is not run through server-side special character decoding. In most cases this should be omitted or set to false.

Channel: getScrapersInfo

Call `socket.emit('getScrapersInfo', uuid)` to trigger a `scrapersInfo` event from the server. After calling this emit, a `scrapersInfo` object will be sent to your `socket.on('scrapersInfo')` event handler function. `scrapersInfo` objects contain non-metadata related information about the scraper process.

PARAMETERS:

- (String) uuid** – The UUID string of a specific scraper.

SOCKET.IO EVENTS

Use these calls with `socket.on('EVENT_NAME', function(params) {
//Handler code here });` to listen for SGmetadata response events.

Event: connect

This event is fired when the socket connects to the SGmetadata server. Place any calls that require an open socket connection (such as `listen` emits) inside the `socket.on('connect')` event handler function.

PARAMETERS:

function() – The function to execute when the connect event is fired. You can emit signals to the socket server inside this connect handler function.

EXAMPLE:

```
//When the socket connects, emit the listen event  
//to receive metadata for our specific scraper.  
socket.on('connect', function() {  
  //Listen for on metadata events  
  //for our specific scraper.  
  socket.emit('listen', scraperUUID);  
});
```

Event: metadata

This event is fired when new scraper metadata is pushed from the server. A `listen` emit must be sent to the server before the `socket.on('metadata')` event will be fired.

PARAMETERS:

function(metadata) – The function to execute when the socket metadata event is fired. The metadata array passed to this function is an array of metadata objects with the following parameters: StreamTitle, StreamUrl, date, timestamp.

EXAMPLE:

```
//Register our main socket metadata event handler.
//When our scraper's metadata changes, it will be
//pushed to this client through this event handler.
socket.on('metadata', function(metadata) {
    //Do something with the metadata object from the server.
    console.log("New metadata received from the server: ", metadata);
});
```

Event: rawMetadata

This event is fired when new scraper raw metadata is pushed from the server. A `listen` emit with the `raw` Boolean set to true, must be sent to the server before the `socket.on('rawMetadata')` event will be fired.

PARAMETERS:

function(rawMetadata) – The function to execute when the socket rawMetadata event is fired. The rawMetadata array passed to this function is an array of unprocessed metadata strings.

Event: smartMetadata

This event is fired when new Smart Monitor metadata is pushed from the server. A `monitor emit` must be sent to the server before the `socket.on('smartMetadata')` event will be fired.

PARAMETERS:

function(metadata) – The function to execute when the socket smart metadata event is fired. The metadata array passed to this function is an array of smart metadata objects with the following parameters: `streamTitle`, `streamUrl`, `data`.

EXAMPLE:

```
//Register our main socket Smart Metadata event handler.
//When our smart monitor's metadata changes, it will be
//pushed to this client through this event handler.
socket.on('smartMetadata', function(metadata) {
  //Metadata properties are as follows:
  //metadata.streamTitle This is the formatted stream title string built
  from the metadata.data object.
  //metadata.streamUrl This is the formatted stream url string built from
  the metadata.data object.
  //metadata.data This is the raw smart metadata object that streamTitle
  and streamUrl are formatted from.
  //Do something with the metadata object from the server.
  console.log("New smart metadata received from the server: ", metadata);
});
```

Event: scraperInfo

This event is called when a new `scraperInfo` object is pushed from the server in response to a `scraperInfo emit`.

PARAMETERS:

function(scraperInfo) – The function to execute when the socket scraperInfo event is fired. The `scraperInfo` object passed to this function contains various fields about the state of the scraper process as well as the url of the stream being scraped for metadata.

Event: disconnect

This event is called when a scraper connection is disconnected from the server.

PARAMETERS:

function(error) – The function to execute when the socket disconnect event is fired. If there was an error that caused the disconnect, it will be passed as an error object to this function. Otherwise, error will be undefined or null.

SGMETADATA SOCKET INTEGRATION EXAMPLE

Place the following JavaScript tag on your page just before its closing body tag (</body>). Make sure to set the apiKey and scraperUUID variables in the example below to the values you received from StreamGuys technical support.

```
<script type="text/javascript">
  //Paste your unique SGmetadata API key here.
  var apiKey = 'xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx';

  //Paste your scraper's UUID here.
  var scraperUUID = 'xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxxxx';

  //This is the SGmetadata socket connection url.
  var sgMetadataServer = '//jetio.streamguys.com';

  //Our Socket.io connection options.
  //For more connection options see: http://socket.io/docs/client-api/
  var socketOptions = {
    'forceNew':true,
    'query':'key='+apiKey
  };

  //Connect to the SGmetadata socket.
  var socket = io.connect(sgMetadataServer, socketOptions);

  //When the socket connects, emit the listen event
  //to receive metadata for our specific scraper.
  socket.on('connect', function() {
    //Listen for on metadata events
    //for our specific scraper.
    socket.emit('listen', scraperUUID);
  });

  //Register our main socket metadata event handler.
  //When our scraper's metadata changes, it will be
  //pushed to this client through this event handler.
  socket.on('metadata', function(metadata) {
    //Do something with the metadata object from the server.
    console.log("New metadata received from the server: ", metadata);
  });

  //If the socket's connection is interrupted
  //or terminated, this event will be thrown.
  socket.on('disconnect', function(error) {
    console.error('Disconnected from socket server.', error);
  });
</script>
```