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# 1 Extracting data with the HTTP API

You can send data extraction requests via command line or scripts using the Data Download HTTP API, for example to automate daily downloads from all stations.

## 1.1 Syntax

```
http://[taurus_ip]/playback/download/  
?[param_name]=[param_value]&[param_name]=[param_value]
```

Additional rules:

- ◆ Parameter names and some parameter values are case-sensitive (see Table 1-1).
- ◆ The *channels* parameter must use this format:

```
taurus_[s/n]/band/timeSeries[#]/
```

For example:

```
taurus_0011/band/timeSeries1/
```

is the first time series channel of Taurus Serial Number 0011.

- ◆ `wget` makes these substitutions automatically when the URI is enclosed in quotes:
  - Replaces “/” (forward slash) with %2F
  - Replaces “,” (comma) with %2C
  - Replaces “ ” (space) with %20

## 1.2 Command parameters

Table 1-1 lists the command parameters.

**Table 1-1** HTTP download API parameters

Name*	Value	Value case sensitivity
channels	[channel1],[channel2],[channel3] Can be set as shown (with commas) or as multiple parameters (all with name "channels")	sensitive
dataType	TimeSeries . SystemLogs . StateOfHealth . SystemConfiguration	insensitive
dataFormat	MiniSEED . Seisan . ASCII . Log ▶ For Seisan, you must run the conversion application <code>storeDataToSeisan</code> on the downloaded file.	insensitive
network	any string (first 2 chars (uppercase & numbers only) used for miniSeed)	N/A
station	any string (first 5 chars (uppercase & numbers only) used for miniSeed)	N/A
Start Time (one of these 2 choices)	startMillis	milliseconds since 1970
	startTime	ISO9601 Formatted String (yyyy-MM-dd HH:mm:ss)

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**Table 1-1** HTTP download API parameters (Continued)

<b>Name*</b>	<b>Value</b>	<b>Value case sensitivity</b>	
End Time	endMillis	milliseconds since 1970	N/A
(one of these 3 choices)	endTime	ISO9601 Formatted String (yyyy-MM-dd HH:mm:ss)	N/A
	duration	xyz[units], where xyz is a number and units is one of Days, Hours, Minutes, or Seconds (can use d, h, m, s) Also support a space or _ as a delimiter between xyz and [units]	insensitive
channelName	[channel](pipe)[channelName]	sensitive	

\* All parameter names are case-sensitive.

### 1.3 Example extract command

The command

```
wget -O Taurus0134.seed "http://199.71.138.57/playback/download?channels=taurus_0134/band/timeSeries1/,taurus_01234/band/timeSeries2/&dataType=timeSeries&dataFormat=MiniSeed&duration=120_s&startTime=2005-08-31 00:00:00"
```

will get data from Taurus Serial Number 0134 at the specified IP address, for channels 1 and 2, in MiniSEED format, starting at 2005-08-31 00:00:00 for 2 minutes (120 seconds).

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