



# **TRANSOUTAGE SPECIFICATIONS**

By IT Reliability

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Version 1.0

# REVISION HISTORY

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DATE OR VERSION NUMBER	AUTHOR	CHANGE DESCRIPTION	COMMENTS
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# INTRODUCTION

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## TRANSOUTAGE

The Transoutage website is a public website that displays active and historic transmission outage data. This data is refreshed and updated throughout the day to provide users with new outage information as it occurs.

This document explains the download functionality and technical details to allow users to automate pulling this data.

## DOWNLOADING OUTAGE DATA

The Transoutage website has functionality that allows for users to append commands to the URL in order to query for outage data and download it as a CSV file.

This functionality is accessible by appending a '?' to the end of the Transoutage website URL and then including one or more of the support commands detailed below.

This download functionality supports up to three commands at once:

- **Download=true**  
This command is required to use the download functionality and must be the first included after the URL. When used by itself it returns outages with an Actual End Date greater than or equal to the previous day's date.
- **Actualendgreaterthan=m/d/yyyy**  
This command is optional, but can be appended to limit the downloaded outages to be those with an Actual End Date greater than or equal to the date provided in place of "m/d/yyyy".  
If this command isn't provided the downloaded data will default to returning all outages with an Actual End Date greater than or equal to the previous day's date.
- **Includenulls=true**  
This command is optional and can be included in place of actualendgreaterthan or after it to return outages whose Actual End Date is null.
- **History=true**  
This command is optional and can be included in place of actualendgreaterthan and includenulls to return a csv file containing all historic outages older than 30 days. This file is updated montly.

These download commands may be chained together by separating each command with a '&' in the URL.

## EXAMPLES

This section contains examples of all actions that can be performed within the Transoutage website.

## DOWNLOAD URLs

Listed below are all combinations of commands that may be used to download outage data from the Transoutage website.

- Return outages  
<https://transoutage.spp.org/report.aspx?download=true>
- Return outages with an Actual End Date greater than February 25<sup>th</sup>, 2023  
<https://transoutage.spp.org/report.aspx?download=true&actualendgreaterthan=2/25/2023>
- Return outages with an Actual End Date greater than February 25<sup>th</sup>, 2023 and also include outages where their Actual End Date is null  
<https://transoutage.spp.org/report.aspx?download=true&actualendgreaterthan=2/25/2023&includenulls=true>
- Return outages and include outages where their Actual End Date is null  
<https://transoutage.spp.org/report.aspx?download=true&includenulls=true>
- Return historic outages  
<https://transoutage.spp.org/report.aspx?download=true&history=true>

## QUERIES

Listed below are several queries showing different methods of calling the Transoutage website with download commands included and saving the results to a file. All of these commands are executed using PowerShell.

### *INVOKE-WEBREQUEST*

The uri below consists of the Transoutage website base URL and some download commands. The outage data returned from this command is stored in a property called Content, which is selected below and written out to a file.

```
Invoke-WebRequest -uri  
"https://transoutage.spp.org/report.aspx?download=true&includenulls=true" | Select-Object -  
Expand Content | Out-File "transoutage_data_w_nulls.csv"
```

Invoke-WebRequest -uri

```
"https://transoutage.spp.org/report.aspx?download=true&history=true" | Select-Object -Expand Content | Out-File "transoutage_historic_outages.csv"
```

### *INVOKE-RESTMETHOD*

The uri below consists of the Transoutage website base URL and some download commands. The outage data returned from this command is written out to a file.

Invoke-RestMethod -uri

```
"https://transoutage.spp.org/report.aspx?download=true&includenulls=true" | Out-File "transoutage_data_w_nulls.csv"
```

Invoke-RestMethod -uri

```
"https://transoutage.spp.org/report.aspx?download=true&history=true" | Out-File "transoutage_historic_outages.csv"
```

### *CURL*

The URL below is the Transoutage website base URL and some download commands. The outage data returned from this command is written out to a file.

```
curl "https://transoutage.spp.org/report.aspx?download=true&includenulls=true" | Out-File "transoutage_data_w_nulls.csv"
```

```
curl " https://transoutage.spp.org/report.aspx?download=true&history=true " | Out-File "transoutage_historic_outages.csv"
```