New York ISO
Independent System Operator

# UG XX

# Bidding Upload/Download (BUD) APIs Draft User Guide

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New York ISO

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# Table of Contents

# Table of Figures

# Revision History

| Version | Effective Date | Revisions |
|---|---|---|
| X.X | MM/DD/YYYY | Draft for Market Trials |

# 1. Important Usage Notes and Introduction

## 1.1 Important Usage Notes

- The **Bidding Upload/Download (BUD)** system replaces the legacy Upload/Download Batch Procedures described in Section 8 (specifically, Section 8.1, Introduction, of the Upload/Download Batch Procedures chapter) of the NYISO Market Participants User's Guide (MPUG), available at https://www.nyiso.com, for bidding data. All Market Participants currently using the MIS Upload/Download Batch Procedures for bid submission, deletion, confirmation, and retrieval should transition to the BUD system.
- The BUD system provides **three interactive methods for entering and receiving data into MIS**:
    1. **REST JSON API** — A modern, programmatic interface for submitting, deleting, confirming, and retrieving bids using structured JSON payloads over HTTPS.
    2. **CSV Endpoint** — A backward-compatible endpoint that accepts the same CSV template format used by the legacy MIS Upload/Download Batch Procedures (see MPUG Section 8).
    3. **Web GUI** — A browser-based drag-and-drop interface for uploading CSV files.
- The CSV endpoint is **backward-compatible** with existing MIS CSV templates as described in Section 8 of the MPUG.

**Market Participant Responsibility:** Each Market Participant is responsible for entering bid information into the MIS accurately, completely, and in a timely fashion. Each Market Participant is responsible for the results, intended or otherwise, of its individual bidding strategies. See Section 1 of the Market Participant Use's Guide (MPUG). for additional discussion of Market Participant Responsibilities and Controls.

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## 1.2 Introduction

The BUD system is the NYISO's API platform for managing electricity market bids. The BUD system supports three categories of market bidding operations:

- **Load Bids** — Submission, deletion, and retrieval of load (demand-side) bids, including physical load, virtual load, and virtual supply bids. Also supports retrieval of load unit details (load-detail) and load schedules (load-sch).
- **Transaction Bids** — Submission, deletion, confirmation, and retrieval of bilateral transaction (internal bilateral) bids, including Day-Ahead Market (DAM), Hour-Ahead Market (HAM), and Non-Firm transactions. Also supports retrieval of transaction schedules (tran-sch) and transaction contracts (tran-contract).
- **Generator Bids** — Submission, deletion, and retrieval of generator bids, including unit commitment data, for all generator types (utility, non-utility, quick-start, 30-minute start, curtailable, ESR, BTM, CSR). Also supports retrieval of generator details (gen-detail), DAM/HAM schedules (gen-sch), real-time dispatch schedules (gen-rtd), generator outages/deratings (gen-out), and unit commitment parameters (u-comm), as well as submission of unit commitment data (uc-data).

For information on obtaining a NYISO MIS user account, refer to Section 1 of the Market Participant Use's Guide (MPUG). For information on obtaining and linking NAESB-compliant digital certificates, refer to Section 4 of the of the Market Participant Use's Guide (MPUG).. For full CSV upload/download template specifications, refer to Section 8 of the Market Participant Use's Guide (MPUG).

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# 2. Using the BUD APIs

## 2.1 General Usage Guidelines

- The BUD API is **stateless** — each request must include full authentication credentials (HTTP Basic Authentication header and a valid NAESB digital certificate).
- All timestamps in request payloads and query parameters must include a **timezone offset** (e.g., -05:00 for EST, -04:00 for EDT). Do not use bare UTC Z suffix.
- All POST submissions return a **structured response** containing accepted, rejected, failed validation, updated, deleted, and error details.

- The nyisoRequestId (UUID) is **auto-generated** by the system for every request for end-to-end request tracing and support correlation. Users do not need to provide this value — it is included automatically in every response.
- **Market windows** (bidding open/close times) are enforced by the system. Submitting a bid outside of the applicable market window will result in a rejection in the response body — not an HTTP-level error.
- **Production Base URL:** https://updown-api.nyiso.com/updown/api/v1/
- **Test Environment Base URL:** https://updown-api-test.nyiso.com/ (when available)

### 2.2 Network Protocols

All BUD API communication uses **HTTPS 1.1 over TLS 1.2** (minimum). Connections that do not present a valid NAESB-compliant digital certificate will be rejected at the transport layer.

### 2.3 Location of BUD API Service Endpoints

**Base URL:** https://updown-api.nyiso.com/updown/api/v1/

All endpoint paths listed in this document are relative to the base URL above. For example, the full URL for the Load Schedules endpoint is:

https://updown-api.nyiso.com/updown/api/v1/load-sch

Endpoints are grouped by category:

**Load Endpoints:** - GET /load-detail - GET /load-sch - POST /load-bid - POST /delete-load-bid

**Transaction Endpoints:** - GET /tran-sch - GET /tran-contract - POST /tran-bid - POST /confirm-tran-bid - POST /delete-tran-bid

**Generator Endpoints:** - GET /gen-detail - GET /gen-sch - GET /gen-rtd - GET /gen-out - GET /u-comm - POST /gen-bid - POST /delete-gen-bid - POST /uc-data

**CSV Endpoint:** - POST /csv

### 2.4 Authentication

All BUD API requests require two forms of authentication:

1. **HTTP Basic Authentication** — Every request must include an Authorization header containing a Base64-encoded username and password.

2. **NAESB/NYISO Digital Certificate** — Every request must be made over a TLS connection that presents a valid NAESB-compliant digital certificate linked to the same MIS user account.

#### 2.4.2 How to Obtain Access Credentials

1. **Step 1:** Register for a NYISO MIS user account. Refer to Section 1 of the MPUG for registration procedures.
2. **Step 2:** Obtain a NAESB-compliant digital certificate from an authorized Certificate Authority. Refer to Section 4 of the MPUG for a list of approved providers and certificate requirements.
3. **Step 3:** Link the digital certificate to your MIS user account through the MIS certificate management interface. Refer to Section 4 of the MPUG for detailed instructions.

#### 2.4.3 HTTP Authorization Header Format

Authorization: Basic <base64(username:password)>

**Example:** For username EXAMPLE_USER and password MyP@ssw0rd:
Authorization: Basic RVhBTVBMRV9VU0VSOk15UEBzc3cwcmQ=

**Important:** NYISO recommends **not** including USERID or PASSWORD rows in BUD requests. Embedding credentials in request payloads is unnecessary and poses a security risk. If these rows are present (e.g., in legacy CSV templates), they are silently ignored and authentication is always taken from the HTTP Authorization header only. This backward-compatibility behavior exists solely to support existing templates formatted per MPUG Section 8.

#### 2.4.4 NAESB Digital Certificate (TLS Client Certificate)

In addition to the Authorization header, every request must present a valid NAESB-compliant digital certificate over TLS. The certificate file (.pem or .crt) and corresponding private key (.key) must be passed with every request.

**curl syntax:**

--cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem

**HTTPie syntax:**

--cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem

**Note:** If your certificate and private key are bundled in a single PKCS#12 (.p12) file, use --cert /path/to/naesb-cert.p12 (curl will prompt for the passphrase, or use --cert /path/to/naesb-cert.p12:<passphrase>). All examples in this guide assume separate PEM files.

For detailed information on obtaining NAESB-compliant digital certificates, approved Certificate Authorities, certificate requirements, and linking certificates to your MIS user account, refer to **Section 4 — Digital Certificates** of the MPUG.

#### 2.4.5 Security Roles and Endpoint Access

The BUD system enforces the same MIS user privileges and authorization flags as the existing MIS Upload/Download process. No new security roles are required.

**Security notice:** Specific security role names, privilege mappings, and endpoint-to-role authorization details are **not** published in this guide. Publishing such information externally would expose the internal authorization model and increase the attack surface for privilege-escalation attempts. The authoritative and complete reference on user account setup, MIS roles, organization roles, privileges, authorization flags, and digital certificate requirements can be found in Section 4 of the NYISO Market Participant User's Guide, available from the NYISO Web site at the following URL:

https://www.nyiso.com/manuals-tech-bulletins-user-guides

## 2.5 Data Formatting

#### 2.5.1 Formatting Numbers

- **MW values:** Integer or decimal values. Precision varies by field — generator MW values support up to 4 integer digits and 1 fractional digit (e.g., 100.5); load MW values support up to 6 integer digits with no fractional digits (e.g., 300).
- **Dollar values:** Decimal values with up to 2 fractional digits for cost fields (e.g., 999.99), or up to 4 fractional digits for fuel price (e.g., 30.1234).
- **PTID values:** Integer values with up to 6 digits (e.g., 123456).

#### 2.5.2 Formatting Dates and Times

All date/time values in the BUD API use **ISO-8601 format with a timezone offset**:

yyyy-MM-ddTHH:mm-ZZ:ZZ

**Examples:** - Eastern Standard Time (EST): "2024-11-30T00:00-05:00" - Eastern Daylight Time (EDT): "2024-06-15T00:00-04:00"

**25-Hour Day Handling (Fall-Back DST Transition):**

On the day when Daylight Saving Time transitions to Standard Time (typically the first Sunday in November), the hour from 01:00 to 02:00 occurs twice. The BUD system handles this by: - The first occurrence of 02:00 uses the EDT offset (-04:00) - The second occurrence of 02:00 (the repeated hour) can be submitted using a bid time of 25:00 in CSV format, or by using the EST offset (-05:00) in JSON format

For example, on November 3, 2024: - First 2:00 AM: "2024-11-03T02:00-04:00" (EDT) - Second 2:00 AM: "2024-11-03T02:00-05:00" (EST)

**Request vs. response time conventions.** Request payloads and query parameters must include an explicit offset (±HH:MM). Response payloads return bidDate values in **UTC** using the bare Z suffix (e.g., "2024-11-30T05:00:00Z"). Response timestamps on the outer envelope (requestTimestamp) use the format yyyy-MM-dd HH:mm:ss z (e.g., 2024-11-30 10:15:30 EST). Client applications that display bid times to users should convert the response UTC value back to Eastern Time using the applicable offset for the bid date.

#### 2.5.3 Response requestType Echo Behavior

The requestType field is **not required** in the request body. The server determines the operation type from the endpoint URL and ignores any requestType value the client may include in submissionParameters. In the **response body**, the server echoes requestType in its lower-case **path form** that matches the endpoint URL (for example, load-bid, delete-load-bid, confirm-tran-bid, uc-data). Client applications that inspect requestType in the response should expect this lower-case hyphenated form.

#### 2.5.4 Worked 25-Hour DST Example (JSON POST /load-bid)

The following /load-bid payload illustrates a complete 25-hour load bid submission for the fall-back DST transition day of **November 3, 2024**. Note the two entries at 02:00: the first uses the EDT offset (-04:00) and the second uses the EST offset (-05:00):


```
{
    "submissionParameters": {
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "submitLoadBids": [
      { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T00:00-04:00", "priceCap1Mw": 10, "priceCap1
  MwDollar": 20.0 },
      { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T01:00-04:00", "priceCap1Mw": 10, "priceCap1
```

```
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T02:00-04:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T02:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T03:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T04:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T05:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T06:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T07:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T08:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T09:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T10:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T11:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T12:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T13:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T14:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T15:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T16:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T17:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T18:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T19:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T20:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T21:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T22:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 },
   { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-11-03T23:00-05:00", "priceCap1Mw": 10, "priceCap1
MwDollar": 20.0 }
  ]
}
```


In CSV format, the second 02:00 row is identified using hour 25:00 (see MPUG Section 8):

EXAMPLE_VL_NY-CITY,11/03/2024 02:00,,,10,20,,,,,,,,

EXAMPLE_VL_NY-CITY,11/03/2024 25:00,,,10,20,,,,,,,,

The 23-hour **spring-forward** day (typically the second Sunday in March) omits the 02:00 hour entirely — do not submit a bid at 02:00 on that day.

#### 2.5.5 JSON Payload Structure

All POST request payloads follow a consistent structure:

**Note:** JSON is an unordered format — the order of attributes in request and response objects may vary and should not be relied upon. Client applications must access fields by name, not by position.

```
{
    "submissionParameters": {
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "bids": [
      { /* bid object 1 */ },
      { /* bid object 2 */ }
    ]
}
```

| Field | Type | Required | Description |
|---|---|---|---|
| submissionParameters.doCommit | Boolean | Yes | When true, bids that pass validation are committed to the market. When false, only validation is performed (dry run). |
| submissionParameters.processUnidentifiedBids | Boolean | No | When true, bids for units not directly associated with the submitting user's organization will still be processed. Default behavior varies by endpoint. |
| bids | Array | Yes | Array of bid objects. The field name varies by operation type (see individual endpoint documentation). |

**Note (request array naming):** All eight POST submission endpoints accept a **canonical** request-body array named bids. Each endpoint also accepts an operation-named alias for that array (e.g., submitLoadBids, deleteLoadBids, submitTransactionBids, etc.) — either name is valid on input; **no other name is accepted**. POST submission responses do **not** echo the request array back; instead they return the categorized result arrays accepted, rejected, updated, deleted, passedValidation, and failedValidation (see Section 2.6 of this guide). Each endpoint section below documents both names.

### 2.6 HTTP Status Codes for Responses

| Code | Name | When It Occurs | Response Body |
|---|---|---|---|
| 200 | OK | Request completed successfully. For GET requests, the response body contains the requested data. For POST requests, the | Structured JSON (see per-endpoint documentation) |

| Code | Name | When It Occurs | Response Body |
|---|---|---|---|
| | | response body contains submission results including accepted, rejected, and validation details. | |
| 400 | Bad Request | Invalid query parameters, malformed request body, or field-level validation failures detected before processing. | JSON object with errors array containing descriptive error messages |
| 401 | Unauthorized | Missing or invalid credentials in the Authorization header, or the digital certificate is not valid. | Standard server error object(timestamp, status, error, path) |
| 403 | Forbidden | The authenticated user does not have the required security role to access the requested endpoint. | Standard server error object (timestamp, status, error, path) |
| 500 | InternalServer Error | An unexpected system error occurred during processing. | JSON error object with error details |

#### 2.6.1 Standard 400 Bad Request Response Shape

For POST endpoints, per-field validation errors are returned in a validationErrors map keyed by "Bid Index: <n> <Unit>: <name>" with an array of error messages per key. For GET endpoints, a simple errors string array is returned.


```
{
  "errors": [
    "Bid date and time cannot be null"
  ],
  "validationErrors": {
    "Bid Index: 0 Load Name: EXAMPLE_VL_NY-CITY": [
      "Bid date and time cannot be null"
    ]
  }
}
```


#### 2.6.2 Standard 401 Unauthorized Response Shape


```
{
  "timestamp": "2026-04-27T18:23:18.966+00:00",
  "status": 401,
  "error": "Unauthorized",
  "path": "/updown/api/v1/tran-sch"
}
```


**Note:** This is the standard server error response shape — it is **not** a standard BUD API response object. The path value reflects whichever endpoint was called.

Returned when (a) the Authorization header is missing or empty, (b) the username or password is invalid (MIS error UDF-10007), (c) the user's password has expired (UDF-10004), or (d) the presented

digital certificate is missing, expired, or not linked to the submitting MIS user account.

#### 2.6.3 Standard 403 Forbidden Response Shape


```
{
  "timestamp": "2026-04-27T18:25:02.114+00:00",
  "status": 403,
  "error": "Forbidden",
  "path": "/updown/api/v1/gen-bid"
}
```


**Note:** Same standard server error shape as 401. The path value reflects whichever endpoint was called. Returned when the authenticated user is valid but lacks the required security role for the requested endpoint.

#### 2.6.4 Standard 500 Internal Server Error Response Shape


```
{
  "error": "Internal Server Error",
  "message": "An unexpected error occurred. Please contact NYISO Stakeholder Services and include the nyiso RequestId for tracing.",
  "status": 500,
  "nyisoRequestId": "b8c9d0e1-f2a3-4567-bcde-789012345678"
}
```


Every endpoint in this guide defers to the four shapes above for 400/401/403/500 responses. Per-endpoint response sections document only the endpoint-specific success (200) payload and any endpoint-specific validation error detail.

### 2.7 Interaction Methods Overview

The BUD system supports three methods for interacting with the bidding system:

**Option 1: REST JSON API** - Modern, programmatic interface using structured JSON payloads - Full per-field validation error reporting - Supports all current and future bid fields - Ideal for automated systems, custom integrations, and CI/CD pipelines - See Section 3 for detailed usage

**Option 2: CSV Legacy Endpoint** - Backward-compatible with existing MIS Upload/Download CSV templates (MPUG Section 8) - POST CSV content to the /csv endpoint - Response returned as CSV text in the same format as legacy MIS responses - Ideal for organizations with existing CSV-based automation - See Section 4 for detailed usage

**Option 3: Web GUI (BUD UI)** - Browser-based drag-and-drop interface - Upload CSV files through a web browser - View results on-screen after upload - Ideal for manual, occasional bid submissions - See Section 5 for detailed usage

# 3. Option 1: REST JSON API

## 3.1 Overview & When to Use

The REST JSON API is the recommended method for programmatic interaction with the BUD system. It provides:

- **Structured JSON responses** with per-field validation error details
- **Full feature parity** with the latest market system capabilities
- **Modern tooling support** — easily consumed by any language or framework that supports HTTP/JSON
- **Granular error handling** — validation errors are returned per-bid with specific field-level messages

Use the REST JSON API when:

- Building automated bid submission systems
- Integrating with energy management systems (EMS)
- Developing custom market participant portals
- Requiring detailed, programmatic error handling

## 3.2 General Workflow

All BUD JSON endpoints share the same interaction pattern, regardless of the specific operation (submit, delete, confirm, or retrieve):

1. **Construct the request** — Build the JSON request body (POST endpoints) or query-parameter set (GET endpoints) per the contract for the chosen endpoint. See **Section 7 of this guide** for the per-endpoint request schemas, field descriptions, and validation rules.
2. **Authenticate** — Include the Authorization: Basic <credentials> header (Base64-encoded username:password) and present a valid NAESB-compliant TLS client certificate. See Section 2.4 of this guide for full authentication details.
3. **Send the request over HTTPS** — POST endpoints use Content-Type: application/json; GET endpoints use a query string (?param=value&param2=value).

4. **Process the structured JSON response** — POST endpoints return classified outcome arrays (accepted, rejected, failedValidation, deleted); GET endpoints return data arrays appropriate to the request. See **Section 7** for the per-endpoint response schemas and examples.

### 3.3 Repeatability, Retries, and Error Handling

- **Network retries** — All BUD endpoints are safe to retry on connection-level failures (timeout, connection reset, 5xx response) provided the original request did not return an HTTP response body.
- **Application-level results** — Once an HTTP 200 OK response is returned, retrying the same request body may produce duplicate bids (for submission endpoints) or no-op outcomes (for delete endpoints already executed). Safe-retry behavior is the responsibility of the caller — track bid IDs returned from prior submissions to avoid resubmission.
- **Validation errors** — Returned in the failedValidation array of an HTTP 200 OK response. The original request was syntactically valid; only the rejected bids need correction and resubmission.
- **HTTP-level errors** — See Section 2.6 of this guide for the full HTTP status code reference and Section 2.4 for authentication-failure scenarios.

### 3.4 Operation-Specific Reference

For the request body, response schema, validation rules, and worked examples for each individual JSON endpoint (submit, delete, confirm, retrieve — for load, transaction, and generator markets), refer to the corresponding subsection of **Section 7 of this guide**:

- Load endpoints — §7.1
- Transaction endpoints — §7.2
- Generator endpoints — §7.3

# 4. Option 2: CSV Legacy Endpoint

## 4.1 Overview & When to Use

The CSV endpoint provides a **direct replacement** for the legacy MIS Upload/Download Batch Procedures described in Section 8 of the MPUG. It is intended for Market Participants who already have CSV-based automation in place and want to transition to the BUD system with minimal changes.

Use the CSV endpoint when:

- You have existing automation that generates CSV files in the MIS Upload/Download format (MPUG Section 8)
- You want a drop-in replacement with no changes to your CSV file structure
- You prefer text-based CSV responses over JSON

## 4.2 How the BUD CSV Endpoint Works

1. **POST** your CSV content to https://updown-api.nyiso.com/updown/api/v1/csv with Content-Type: text/csv
2. The BUD system accepts the same CSV template format as the legacy MIS Upload/Download Batch Procedures (MPUG Section 8)
3. The BUD system internally routes the CSV to the appropriate processing logic based on the BID_TYPE (for uploads) or QUERY_TYPE (for downloads) header row
4. Response is returned as CSV text in the same format as the legacy MIS response
5. **Authentication** uses HTTP Basic Auth (Authorization header) — the USERID and PASSWORD rows in the CSV are **ignored** by the BUD system

## 4.3 Supported CSV Upload Operations (BID_TYPE values)

| BID_TYPE | Description | |
|---|---|---|
| LOAD_BID | Submit load bids | |
| DELETE_LOAD_BID | Delete load bids | |
| GEN_BID | Submit generator bids | |
| DELETE_GEN_BID | Delete generator bids | |
| UC_DATA | Submit unit commitment data | |
| TRAN_BID | Submit transaction bids | |

| BID_TYPE | Description | |
|---|---|---|
| DELETE_TRAN_BID | Delete transaction bids | |
| CONFIRM_TRAN_BID | Confirm transaction bids | |

For the complete field definitions, data types, and submission/response column order for each upload template, refer to **Section 8.2 of the MPUG**.

### 4.4 Supported CSV Download Operations (QUERY_TYPE values)

| QUERY_TYPE | Description | |
|---|---|---|
| LOAD_DETAIL | Retrieve load unit details | |
| LOAD_SCH | Retrieve load bid schedules | |
| GEN_DETAIL | Retrieve generator unit details | |
| GEN_SCH | Retrieve generator bids and schedules | |
| GEN_RTD | Retrieve generator real-time dispatch schedules | |
| GEN_OUT | Retrieve generator outage declarations | |
| U_COMM | Retrieve unit commitment parameters | |
| TRAN_SCH | Retrieve transaction bid schedules | |
| TRAN_CONTRACT | Retrieve transaction contracts | |

For the complete field definitions and response column order for each download template, refer to **Section 8 of the MPUG**.

### 4.5 CSV Template Format Overview

CSV upload templates use the following header structure:

BID_TYPE=&

USERID=&

PASSWORD=&

DATA_ROWS=&

<data row 1>

<data row 2>

…

CSV download templates use:

QUERY_TYPE=&
USERID=&
PASSWORD=&

**Data commit logic:** The BUD system performs all-or-nothing initial validation on the submitted data. Business rule validation is performed in 250-row batches.

**Note:** USERID and PASSWORD rows may be included for backward compatibility with the legacy format but are **not required** and are **ignored** by the BUD system. Authentication is always performed via the HTTP Authorization header.

For complete template format specifications, upload/download process procedures, and field-level data dictionaries, refer to **Section 8 of the MPUG**.

### 4.6 Worked Examples

For complete CSV request-body examples for every supported BID_TYPE (upload) and QUERY_TYPE (download), including the 25-hour fall-back DST example, refer to **Section 7.4.1.2 (Request Examples) of this guide** under the /csv endpoint reference in **Section 7 — Complete Endpoint Reference**.

# 5. Option 3: Web GUI (BUD UI)

## 5.1 Overview & When to Use

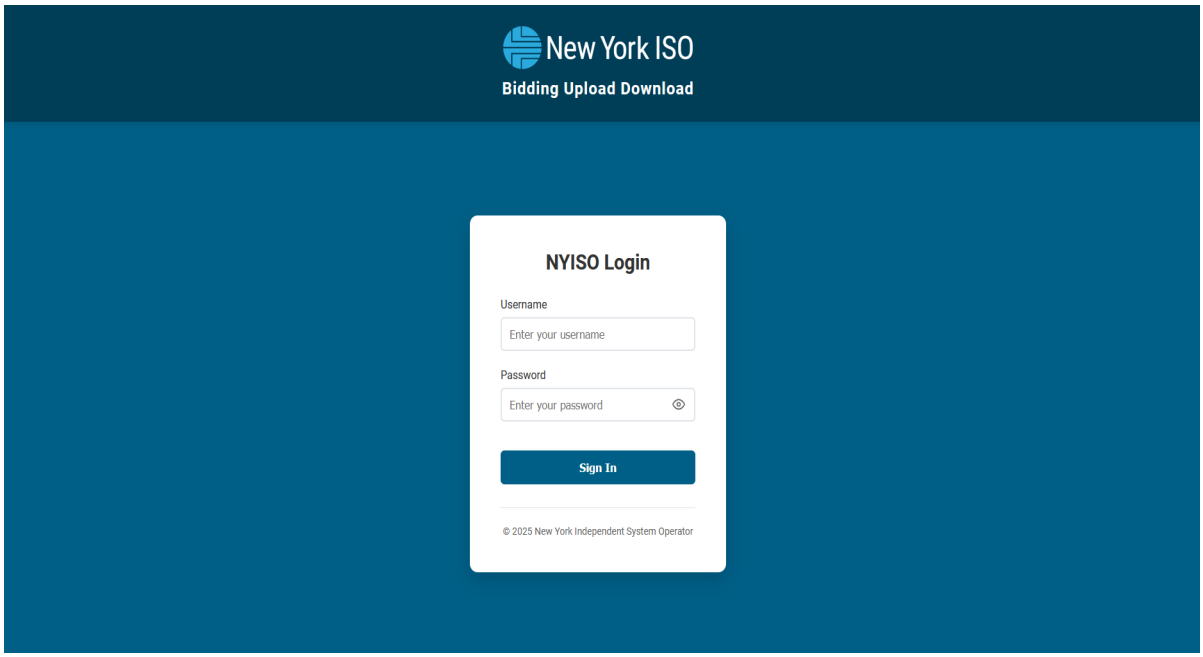
The BUD Web GUI provides a browser-based interface for uploading CSV files. It is designed for manual, occasional bid submissions by Market Participants who prefer a visual interface.

## 5.2 Accessing the BUD UI

**URL:** https://updown-api.nyiso.com/login

1. Navigate to the BUD UI URL in your web browser
2. Enter your NYISO MIS username and password on the login screen
3. Your browser must present a valid NAESB digital certificate during the TLS handshake

**Figure 1 BUD UI Login screen**



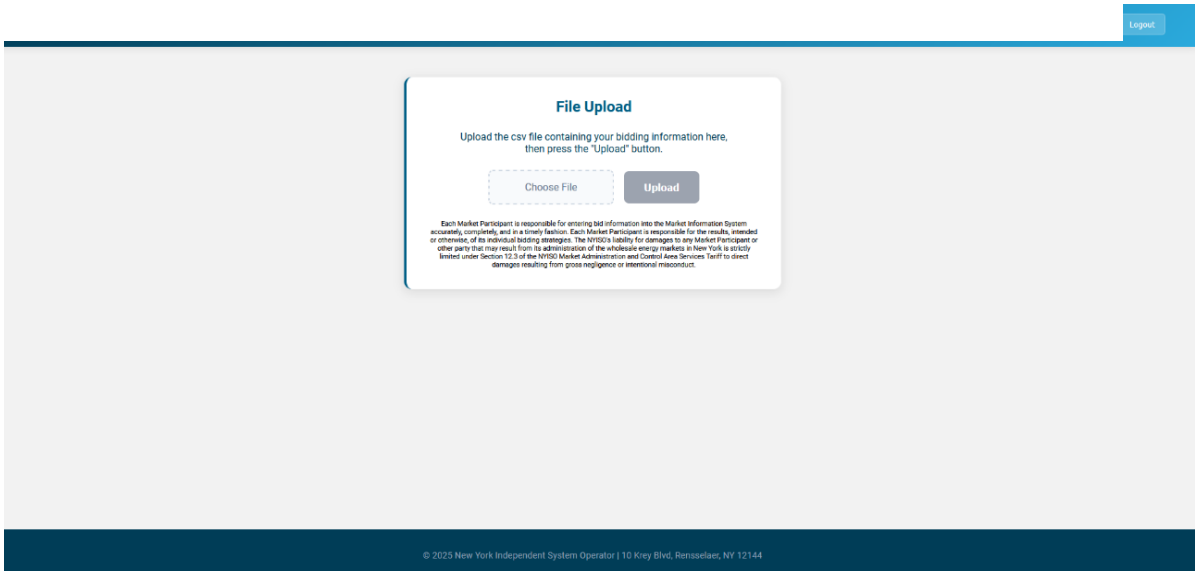

## 5.3 Uploading a CSV File

1. **Log in** to the BUD UI with your MIS credentials
2. **Select a file** by either:

- Dragging and dropping a CSV file onto the upload area, OR
- Clicking “Choose File” and selecting a CSV file from your file system

3. **Click “Upload”** to submit the file
4. **View results** on the Result page that appears after processing

**Figure 2 BUD UI Home screen showing the drag-and-drop upload area.**




BUD UI Home screen showing the drag-and-drop upload area

## 5.4 Accepted File Types

The BUD UI accepts .csv files only. The CSV file must follow the standard MIS template format (see Section 4 or MPUG Section 8).

## 5.5 Interpreting Results

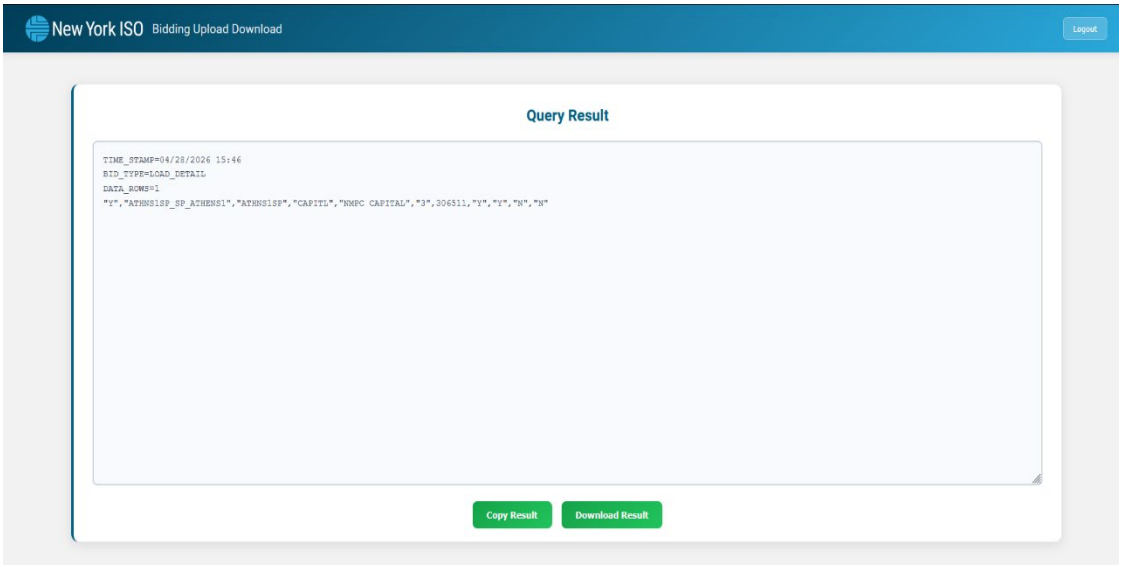
After uploading, the Result page displays:

- The raw response from the BUD system
- Success or failure status for each bid in the file
- Specific error messages for any bids that failed validation or were rejected

**Result page actions:**

| Button | Description |
|---|---|
| Copy Result | Copies the result text to your clipboard, enabling you to paste it into any application |
| Download Result | Downloads the result as a CSV file |

**Figure 3 BUD UI Result page showing the raw BUD response**




**Note:** The CSV response format from the GUI will not include fields for features added in future releases. For full-featured responses, use the REST JSON API.

# 6. Comparison: CSV Endpoint vs. JSON API

## 6.1 Feature Comparison Table

| Feature | JSON REST API | CSV Endpoint |
|---|---|---|
| Data Format | JSON | CSV (legacy MIS format) |
| Error Granularity | Per-field validation errors with field names | Row-level error messages |
| Automation | Full REST client support (any language) | Requires CSV file generation |
| New Features | All current and future features supported | May not include newest fields |
| Backward Compatibility | N/A (new interface) | Full legacy MIS Upload/Download compatibility |
| Response Format | Structured JSON with typed fields | CSV text |
| GUI Support | N/A | Supported via drag-and-drop upload |
| Authentication | HTTP Basic Auth + Certificate | HTTP Basic Auth + Certificate |
| Batch Size | Limited by request body size | Limited by request body size |

## 6.2 Pros and Cons

**JSON REST API:**

- ✅ **Pros:** Granular per-field error handling, structured responses, modern tooling support, full feature parity with latest market capabilities, easy to parse and process programmatically
- ❌ **Cons:** Requires JSON payload construction, new integration effort for existing CSV-based systems

**CSV Legacy Endpoint:**

- ✅ **Pros:** Drop-in replacement for the legacy MIS Upload/Download procedures, familiar format for existing users, GUI support for manual uploads, no changes needed to existing CSV generation logic
- ❌ **Cons:** Limited error detail compared to JSON, may lag on new features, text-based responses require custom parsing

# 7. Complete Endpoint Reference

Load Endpoint Table

| Category | Method | Path | Full URL | Description |
|---|---|---|---|---|
| Load | GET | /load-detail | https://updown-api.nyiso.com/updown/api/v1/load-detail | Retrieve load bus details |
| Load | GET | /load-sch | https://updown-api.nyiso.com/updown/api/v1/load-sch | Retrieve load bids and schedules |
| Load | POST | /load-bid | https://updown-api.nyiso.com/updown/api/v1/load-bid | Submit load bids |
| Load | POST | /delete-load-bid | https://updown-api.nyiso.com/updown/api/v1/delete-load-bid | Delete load bids |
| Transaction | GET | /tran-sch | https://updown-api.nyiso.com/updown/api/v1/tran-sch | Retrieve internal transaction bids and schedules |
| Transaction | GET | /tran-contract | https://updown-api.nyiso.com/updown/api/v1/tran-contract | Retrieve transaction contracts |
| Transaction | POST | /tran-bid | https://updown-api.nyiso.com/updown/api/v1/tran-bid | Submit internal transaction bids |
| Transaction | POST | /confirm-tran-bid | https://updown-api.nyiso.com/updown/api/v1/confirm-tran-bid | Confirm transaction bids |
| Transaction | POST | /delete-tran-bid | https://updown-api.nyiso.com/updown/api/v1/delete-tran-bid | Delete transaction bids |
| Generator | GET | /gen-detail | https://updown-api.nyiso.com/updown/api/v1/gen-detail | Retrieve generator details |
| Generator | GET | /gen-sch | https://updown-api.nyiso.com/updown/api/v1/gen-sch | Retrieve generator bids and schedules |
| Generator | GET | /gen-rtd | https://updown-api.nyiso.com/updown/api/v1/gen-rtd | Retrieve generator RTD schedules |
| Generator | GET | /gen-out | https://updown-api.nyiso.com/updown/api/v1/gen-out | Retrieve generator outages/deratings |

| Category | Method | Path | Full URL | Description |
|---|---|---|---|---|
| Generator | GET | /u-comm | https://updown-api.nyiso.com/updown/api/v1/u-comm | Retrieve generator commitment parameters |
| Generator | POST | /gen-bid | https://updown-api.nyiso.com/updown/api/v1/gen-bid | Submit generator bids |
| Generator | POST | /delete-gen-bid | https://updownapi.nyiso.com/updown/api/v1/deete-gen-bid | Delete generator bids |
| Generator | POST | /uc-data | https://updown-api.nyiso.com/updown/api/v1/uc-data | Submit generator commitment parameters |
| CSV | POST | /csv | https://updown-api.nyiso.com/updown/api/v1/csv | Legacy CSV upload/download for all bid types |

## 7.1 Load Endpoints

### 7.1.1 GET /load-detail — Retrieve Load Details

#### 7.1.1.1 Request

**HTTP Method + Full URL:**

GET https://updown-api.nyiso.com/updown/api/v1/load-detail

**Description:** Retrieves detailed information about load units, including load name, PTID, station, voltage class, zone, subzone, and qualification flags (energy bid qualified, price cap qualified, interruptible). Results can be filtered by load name or PTID.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| TLS Client Certificate | NAESB-compliant.pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see Section 2.4 of this guide). |

**Query Parameters:**

| Name | Type | Required | Description | Example |
|---|---|---|---|---|
| loadName | String | No | Name of the load unit. Must contain only alphanumeric characters, underscores, hyphens, and spaces. | EXAMPLE_LOAD_NAME |
| Ptid | Integer | No | PTID (Point Identifier) of the load, up to 6 digits. | 546231 |

**Note:** If neither loadName nor ptid is provided, all load details accessible to the authenticated user are returned.

#### 7.1.1.2 Request Examples

**curl:**

```
curl -X GET "https://updown-api.nyiso.com/updown/api/v1/load-detail?loadName=EXAMPLE_VL_NY-CITY" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem
```

**HTTPie:**

```
http GET "https://updown-api.nyiso.com/updown/api/v1/load-detail" \
     "Authorization:Basic <base64-encoded-credentials>" \
     --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
     loadName==EXAMPLE_VL_NY-CITY
```

**curl (by PTID):**

```
curl -X GET "https://updown-api.nyiso.com/updown/api/v1/load-detail?ptid=546231" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem
```

#### 7.1.1.3 Response

**200 OK — Success:**

| Field | Type | Description |
|---|---|---|
| requestStartTime | String | ISO-8601 timestamp when request processing began |
| requestEndTime | String | ISO-8601 timestamp when request processing completed |
| nyisoRequestId | String | Auto-generated unique request correlation ID (UUID) |
| Count | Integer | Number of records returned |

| Field | Type | Description |
|---|---|---|
| Message | String | Status message (e.g., "Success") |
| loadDetails | Array | Array of load detail objects |
| loadDetails[].ptid | Integer | PTID of the load |
| loadDetails[].active | Boolean | Whether the load is currently active |
| loadDetails[].energyBidQualified | Boolean | Whether the load is qualified for energy bids |
| loadDetails[].priceCapQualified | Boolean | Whether the load is qualified for price cap bids |
| loadDetails[].interruptible10Minute | Boolean | Whether the load is qualified for 10-minute interruption |
| loadDetails[].interruptible30Minute | Boolean | Whether the load is qualified for 30-minuteinterruption |
| loadDetails[].edcArea | String | Electric distribution company area code |
| loadDetails[].lse | Object | Load serving entity |
| loadDetails[].lse.lseName | String | LSE name |
| loadDetails[].subzone | Object | Subzone information |
| loadDetails[].subzone.subzoneName | String | Subzone name |
| loadDetails[].subzone.zone | Object | Zone information |
| loadDetails[].subzone.zone.zoneName | String | Zone name |
| loadDetails[].displayName | String | Full display name (e.g., "EXMPLSE_SP_LOADBUS1") |

**400 Bad Request — Validation Error:**

| Field | Type | Description |
|---|---|---|
| Errors | Array | Array of error message strings describing what failed |

**401 Unauthorized / 403 Forbidden:** See Section and Section 2.6.3 of this guide for the standard server error shape (timestamp, status, error, path).

#### 7.1.1.4 Response Examples

**200 OK — Success:**


```
{
    "requestStartTime": "2026-04-27T19:10:36.343404842Z",
    "requestEndTime": "2026-04-27T19:10:36.345389594Z",
    "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
    "count": 1,
    "message": "Success",
    "loadDetails": [
      {
```

```
      "ptid": 100001,
      "active": true,
      "energyBidQualified": true,
      "priceCapQualified": true,
      "interruptible10Minute": false,
      "interruptible30Minute": false,
      "edcArea": "3",
      "lse": {
       "lseName": "EXMPLSE"
      },
      "subzone": {
       "subzoneName": "EXAMPLE SUBZONE",
       "zone": {
        "zoneName": "EXZONE"
       }
      },
      "displayName": "EXMPLSE_SP_LOADBUS1"
     }
    ]
   }
```


**200 OK — Validation Error (unrecognized load bus):**


```
{
    "requestStartTime": "2026-04-28T12:20:57.020226649Z",
    "requestEndTime": "2026-04-28T12:20:57.020228308Z",
    "count": 0,
    "message": "Upload/Download Error",
    "errors": [
     "ERROR: Submitted load bus EXMPLSE_SP_LOADBUS could not be identified. The Bus either does not e
    xist, the user is not an authorized user of the Bus or the Bus is associated with a Load Type that is not authorize
    d to display Load Bus Details. Contact NYISO if you feel you received this message in error."
    ]
   }
```


**Note:** GET endpoints return validation errors as a 200 OK with "message": "Upload/Download Error" and count: 0, not as a 400 Bad Request. The startDateTime query parameter is required for /tran-sch.

### 7.1.2 GET /load-sch — Retrieve Load Schedules

#### 7.1.2.1 Request

**HTTP Method + Full URL:**

GET https://updown-api.nyiso.com/updown/api/v1/load-sch

**Description:** Retrieves load bid schedules for the authenticated user's organization. Results can be filtered by date/time, number of hours, load name, PTID, bid status, and last modified date.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |

**Query Parameters:**

| Name | Type | Required | Description | Allowed Values | Example |
|---|---|---|---|---|---|
| startDateTime | String | Yes | Start date/time in ISO-8601 format with timezone offset | ISO-8601 with offset | 2024-11-30T00:00-05:00 |
| numHours | Integer | No | Number of hours of data to retrieve | 1—24 (25 on fall-back DST days) | 6 |
| loadName | String | No | Name of the load unit | Alphanumeric + _- | EXAMPLE_VL_NY-CITY |
| Ptid | Integer | No | PTID of the load (up to 6 digits) | Numeric | 546231 |
| Status | String | No | Filter by bid status | WAITING VALIDATION, VALIDATION FAILED, WAITING CONFIRMATION, VALIDATION PASSED, EVALUATING, BID REJECTED, ADVISORY REJECTED, BID ACCEPTED, ADVISORY ACCEPTED, MODIFIED, PRE SCHED QUEUED, PRE SCHED REJECTED, PRE SCHED CONFIRMED, PRE SCH MRKT CLOSED | BID ACCEPTED |
| modifiedDate | String | No | Filter by last modified date/time | ISO-8601 with offset | 2024-11-30T00:00-05:00 |

#### 7.1.2.2 Request Examples

**curl:**

```
curl -X GET "https://updown-api.nyiso.com/updown/api/v1/load-sch?startDateTime=2024-11-30T00:00-05:00&numHours=6" \
  -H "Authorization: Basic <base64-encoded-credentials>" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem
```

**HTTPie:**

```
http GET "https://updown-api.nyiso.com/updown/api/v1/load-sch" \
  "Authorization:Basic <base64-encoded-credentials>" \
  --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
  startDateTime=="2024-11-30T00:00-05:00" numHours==6
```

#### 7.1.2.3 Response

**200 OK — Success:**

| Field | Type | Description |
|---|---|---|
| requestStartTime | String | ISO-8601 timestamp when request processing began |
| RequestEndTime | String | ISO-8601 timestamp when request processing completed |
| NyisoRequestId | String | Auto-generated request correlation ID (UUID) |
| Count | Integer | Number of records returned |
| Message | String | Status message (e.g., "Success") |
| LoadSchedules | Array | Array of load schedule objects |
| loadSchedules[].bidDate | String | Bid hour in UTC (e.g., "2026-04-10T05:00Z") |
| loadSchedules[].displayName | String | Full display name (e.g., "EXMPLSE_VL_LOADBUS2") |
| loadSchedules[].ptid | Integer | Load PTID |
| loadSchedules[].bidId | Integer | Unique bid ID assigned by the system |
| loadSchedules[].forecastMw | Number | Forecasted MW to be consumed |
| loadSchedules[].fixedBidMw | Number | Fixed-block DAM MW |
| oadSchedules[].priceCap1Mw | Number | Price-cap MW block 1 |
| loadSchedules[].priceCap1MwDollar | Number | Price-cap $/MWh for block 1 |
| loadSchedules[].priceCap2Mw | Number | Price-cap MW block 2 |
| loadSchedules[].priceCap2MwDollar | Number | Price-cap $/MWh for block 2 |

| Field | Type | Description |
|---|---|---|
| loadSchedules[].priceCap3Mw | Number | Price-cap MW block 3 |
| loadSchedules[].priceCap3MwDollar | Number | Price-cap $/MWh for block 3 |
| loadSchedules[].interruptType | String | "10MIN" or "30MIN" |
| loadSchedules[].interruptFixedMw | Number | Interruptible fixed MW |
| loadSchedules[].interruptFixedMwDollar | Number | Interruptible fixed $/MW |
| loadSchedules[].interruptPriceCapMw | Number | Interruptible price-cap MW |
| loadSchedules[].interruptPriceCapMwDollar | Number | Interruptible price-cap $/MW |
| loadSchedules[].scheduledPriceCapMw | Number | Scheduled energy associated with price-cappedbid(MW) |
| loadSchedules[].scheduledInterruptFixedMw | Number | Scheduled interruptible fixed MW |
| loadSchedules[].scheduledInterruptCapMw | Number | Scheduled interruptible price-cap MW |
| loadSchedules[].bidStatus | String | Bid status (e.g., "VALIDATION_PASSED", "BID_ACCEPTED") |
| loadSchedules[].passedValidationMessages | Array | Validation messages for passed bids |
| loadSchedules[].passedValidationMessages[].message | String | Validation message text |
| loadSchedules[].validationMessages | Array | Validation messages providing bid details |
| loadSchedules[].validationMessages[].message | String | Validation message text |

**Note**: Only fields with non-null values appear in the response. The actual fields returned depend on the bid type and status.

**400 Bad Request:** See §2.6.1. **401 / 403 / 500:** See §2.6.2—§2.6.4.

#### 7.1.2.4 Response Examples

**200 OK — Success:**


```
{
    "requestStartTime": "2026-04-27T19:41:54.209306600Z",
    "requestEndTime": "2026-04-27T19:41:54.213302300Z",
    "nyisoRequestId": "b2c3d4e5-f6a7-8901-bcde-f12345678901",
    "count": 2,
    "message": "Success",
    "loadSchedules": [
      {
        "bidDate": "2026-04-10T05:00Z",
        "displayName": "EXMPLSE_VL_LOADBUS2",
        "ptid": 100002,
```

```
      "bidId": 1000000001,
      "priceCap1Mw": 1,
      "priceCap1MwDollar": 1.0,
      "bidStatus": "VALIDATION_PASSED",
      "passedValidationMessages": [
        {
          "message": "Validation Passed Subject to Credit Evaluation."
        }
      ]
    },
    {
      "bidDate": "2026-04-10T06:00Z",
      "displayName": "EXMPLSE_VL_LOADBUS2",
      "ptid": 100002,
      "bidId": 1000000003,
      "priceCap1Mw": 1,
      "priceCap1MwDollar": 1.0,
      "bidStatus": "VALIDATION_PASSED",
      "passedValidationMessages": [
        {
          "message": "Validation Passed Subject to Credit Evaluation."
        }
      ]
    }
  ]
}
```


#### 7.1.3 POST /load-bid — Submit Load Bids

##### 7.1.3.1 Request

**HTTP Method + Full URL:**

POST https://updown-api.nyiso.com/updown/api/v1/load-bid

**Description:** Submits one or more load bids for processing. Each bid represents a single hour of load bidding data for a specific load unit. The system validates all bids before committing. If doCommit is true and all bids pass validation, they are committed to the market. Bids submitted outside the applicable market window will be rejected.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |

| Requirement | Value / Format | Description |
|---|---|---|
| Content-Type Header | application/json | Required. Request body format. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |

**Request Body Schema:**

**Array name:** The canonical request-body array for this endpoint is bids; submitLoadBids is also accepted on input as an alias. Either name works — examples below use submitLoadBids.

| Field | Type | Required | Description | Constraints | Example |
|---|---|---|---|---|---|
| submissionParameters.doCommit | Boolean | Yes | Commit bids if validation passes | true or false | true |
| submissionParameters.processUnidentifiedBids | Boolean | No | Process bids for units not in user's org | true or false | true |
| submitLoadBids (alias: bids) | Array | Yes | Array of load bid objects | At least 1 entry | See below |
| submitLoadBids[].loadName | String | Conditional | Load name (required if ptid not provided) | Alphanumeric + _- | "EXAMPLE_VL_NY-CITY" |
| submitLoadBids[].ptid | Integer | Conditional | PTID (required if loadName not provided) | Up to 6 digits | 546231 |
| submitLoadBids[].bidDate | String | Yes | Bid date/time in ISO-8601 with timezone | Must be top of hour | "2024-11-30T00:00-05:00" |
| submitLoadBids[].forecastMw | Number | No | Forecasted MW to be consumed | Up to 6 integer digits | 300 |
| submitLoadBids[].fixedBidMw | Number | No | Fixed MW to procure from DAM | Up to 6 integer digits | 300 |

| Field | Type | Required | Description | Constraints | Example |
|---|---|---|---|---|---|
| submitLoadBids[].priceCap1Mw | Number | No | First price cap MW block | Up to 6 integer digits | 350 |
| submitLoadBids[].priceCap1MwDollar | Number | No | Dollar per MW for first price cap | Up to 6 integer digits | 20.0 |
| submitLoadBids[].priceCap2Mw | Number | No | Second price cap MW block | Up to 6 integer digits | 450 |
| submitLoadBids[].priceCap2MwDollar | Number | No | Dollar per MW for second price cap | Up to 6 integer digits | 25.0 |
| submitLoadBids[].priceCap3Mw | Number | No | Thirdprice cap MW block | Up to 6 integer digits | 500 |
| submitLoadBids[].priceCap3MwDollar | Number | No | Dollar per MW for third price cap | Up to 6 integer digits | 30.0 |
| submitLoadBids[].interruptType | String | No | Interruption type | 10MIN or 30MIN | "10MIN" |
| submitLoadBids[].interruptFixedMw | Number | No | Interruptible fixed MW | Up to 6 int, 1 frac | 20.0 |
| submitLoadBids[].interruptFixedMwDollar | Number | No | Cost for interruptible fixed MW | Up to 6 integer digits | 250.0 |
| submitLoadBids[].interruptPriceCapMw | Number | No | Interruptible price cap MW | Up to 6 int, 1 frac | 10.0 |
| submitLoadBids[].interruptPriceCapMwDollar | Number | No | Cost for interruptible price cap MW | Up to 6 integer digits | 400.0 |

**Note:** Either loadName or ptid (or both) must be provided for each bid. Price cap pairs (MW and Dollar) must both be provided or both be null. Price cap values cannot be negative. The fields above are the complete set supported for JSON submission; numHours, energyBidMw, fixedMinGenMw, and additional interruptible price-cap pairs are not supported in the current JSON API; submit one row per hour and use the single interruptPriceCapMw / interruptPriceCapMwDollar pair.

#### 7.1.3.2 Request Examples

**curl — Single bid:**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/load-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": true
     },
     "submitLoadBids": [{
       "loadName": "EXAMPLE_VL_NY-CITY",
       "bidDate": "2024-11-30T00:00-05:00",
       "priceCap1Mw": 10,
       "priceCap1MwDollar": 10.0
     }]
   }'
```

**HTTPie — Single bid:**

```
http POST "https://updown-api.nyiso.com/updown/api/v1/load-bid" \
     "Authorization:Basic <base64-encoded-credentials>" \
     "Content-Type:application/json" \
     --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
     < load-bid-body.json
```

**curl — Multi-bid (4 hours):**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/load-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": true
     },
     "submitLoadBids": [
       {
         "loadName": "EXAMPLE_VL_NY-CITY",
         "bidDate": "2024-09-30T00:00-04:00",
         "priceCap1Mw": 10,
         "priceCap1MwDollar": 10.0
       },
       {
         "loadName": "EXAMPLE_VL_NY-CITY2",
         "bidDate": "2024-09-30T01:00-04:00",
         "priceCap1Mw": 10,
         "priceCap1MwDollar": 10.0
       },
       {
         "loadName": "EXAMPLE_VL_NY-CITY3",
         "bidDate": "2024-09-30T02:00-04:00",
```

```
    "priceCap1Mw": 10,
    "priceCap1MwDollar": 10.0
   },
   {
    "loadName": "EXAMPLE_VL_NY-CITY",
    "bidDate": "2024-09-30T03:00-04:00",
    "priceCap1Mw": 10,
    "priceCap1MwDollar": 10.0
   }
  ]
}'
```

#### 7.1.3.3 Response

**200 OK — Submission Result:**

| Field | Type | Description |
|---|---|---|
| requestTimestamp | String | Timestamp of the request (yyyy-MM-dd HH:mm:ss z) |
| submissionParameters | Object | Echo of the submission parameters |
| nyisoRequestId | String | Auto-generated unique request correlation ID (UUID) for tracing and support |
| Errors | Array | Global error messages (empty on success) |
| validationErrors | Object | Map of bid key -> array of per-field error messages |
| failedValidation | Array | Array of bid objects that failed validation |
| passedValidation | Array | Array of bid objects that passed validation |
| Accepted | Array | Array of bid objects accepted by the market |
| Rejected | Array | Array of bid objects rejected by the market |

**400 Bad Request:** See §2.6.1 for the canonical errors[] + validationErrors{} shape. validationErrors is keyed by "Bid Index: <n> Load Name: <name>".

**401 / 403 / 500:** See §2.6.2—§2.6.4.

#### 7.1.3.4 Response Examples

**200 OK — Bids accepted and rejected:**


```
{
    "requestTimestamp": "2026-04-27 15:51:01 EDT",
    "submissionParameters": {
      "requestType": "load-bid",
      "doCommit": true,
      "processUnidentifiedBids": true,
      "nyisoRequestId": "c3d4e5f6-a7b8-9012-cdef-234567890123",
      "fingerprint": "a1b2c3d4e5f6a7b8c9d0e1f2a3b4c5d6e7f8a9b0",
      "caller": "JSMITH"
    },
    "requestStartTime": "2026-04-27T19:51:01.451228600Z",
```

```
"count": 8,
"accepted": [
  {
    "bidDate": "2026-05-01T15:00Z",
    "displayName": "EXMPLSE_PA_LOADBUS3",
    "ptid": 100003,
    "bidId": 1000000005,
    "bidStatus": "VALIDATION_PASSED",
    "forecastMw": 170,
    "fixedBidMw": 1
  },
  {
    "bidDate": "2026-05-01T16:00Z",
    "displayName": "EXMPLSE_PA_LOADBUS3",
    "ptid": 100003,
    "bidId": 1000000009,
    "bidStatus": "VALIDATION_PASSED",
    "forecastMw": 170,
    "fixedBidMw": 1
  }
],
"rejected": [
  {
    "bidDate": "2026-05-01T04:00Z",
    "displayName": "EXMPLSE_PA_LOADBUS3",
    "ptid": 100003,
    "bidId": 1000000007,
    "bidStatus": "VALIDATION_PASSED",
    "forecastMw": 170,
    "fixedBidMw": 1,
    "validationMessages": [
      {
        "message": "Bid found with no updates. No action taken."
      }
    ]
  }
]
}
```


**Note:** The accepted[] array above is truncated for brevity — the actual response contained 7 accepted bids. Only non-null fields appear per bid. The rejected[] array includes validationMessages explaining why each bid was rejected.

#### 7.1.4 POST /delete-load-bid — Delete Load Bids

##### 7.1.4.1 Request

**HTTP Method + Full URL:**

POST https://updown-api.nyiso.com/updown/api/v1/delete-load-bid

**Description:** Deletes one or more previously submitted load bids. Bids can be identified either by bidId alone, or by a combination of loadName (or ptid) and bidDate.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. |
| Content-Type Header | application/json | Required. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate (see §2.4). |

**Request Body Schema:**

**Array name:** The canonical request-body array for this endpoint is bids; deleteLoadBids is also accepted on input as an alias. Either name works — examples below use deleteLoadBids.

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| submissionParameters.doCommit | Boolean | Yes | Commit deletion | true |
| deleteLoadBids (alias: bids) | Array | Yes | Array of bid delete objects | See below |
| deleteLoadBids[].bidId | Integer | Conditional | Bid ID to delete (sufficient alone) | 1174702467 |
| deleteLoadBids[].bidDate | String | Conditional | Bid date (required if no bidId) | "2024-11-30T00:00-05:00" |
| deleteLoadBids[].loadName | String | Conditional | Load name (required if no bidId) | "EXAMPLE_VS_NY-CITY" |
| deleteLoadBids[].ptid | Integer | Conditional | PTID (alternative to loadName) | 546231 |

#### 7.1.4.2 Request Examples

**curl — Delete by loadName and bidDate:**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/delete-load-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": false
     },
     "deleteLoadBids": [{
       "bidDate": "2026-02-14T01:00:00-05:00",
       "loadName": "EXAMPLE_VS_NY-CITY"
     }]
   }'
```

**HTTPie:**

```
http POST "https://updown-api.nyiso.com/updown/api/v1/delete-load-bid" \
     "Authorization:Basic <base64-encoded-credentials>" \
     "Content-Type:application/json" \
     --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
     < delete-load-bid-body.json
```

**curl — Multi-bid (3 hours for two loads):**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/delete-load-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": false
     },
     "deleteLoadBids": [
       { "bidId": 1174702467 },
       { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-01-22T00:00-05:00" },
       { "loadName": "EXAMPLE_VL_NY-CITY", "bidDate": "2024-01-22T01:00-05:00" }
     ]
   }'
```

#### 7.1.4.3 Response

Same response structure as POST /load-bid, with deleted array populated on success and rejected array on failure.

**400 / 401 / 403 / 500:** See Section 2.6 of this guide.

#### 7.1.4.4 Response Examples

200 OK — Bid successfully deleted:

```
{
     "requestTimestamp": "2026-04-27 15:57:17 EDT",
     "submissionParameters": {
```

```
    "requestType": "delete-load-bid",
    "doCommit": true,
    "processUnidentifiedBids": true,
    "nyisoRequestId": "d4e5f6a7-b8c9-0123-defa-345678901234",
    "fingerprint": "a1b2c3d4e5f6a7b8c9d0e1f2a3b4c5d6e7f8a9b0",
    "caller": "JSMITH"
  },
  "requestStartTime": "2026-04-27T19:57:17.604602300Z",
  "count": 1,
  "deleted": [
    {
      "bidDate": "2026-05-01T15:00Z",
      "displayName": "EXMPLSE_PA_LOADBUS3",
      "ptid": 100003,
      "bidId": 1000000005,
      "bidStatus": "VALIDATION_PASSED",
      "forecastMw": 170,
      "fixedBidMw": 1
    }
  ]
}
```


200 OK — Bid not found (rejected):


```
{
  "requestTimestamp": "2026-04-27 15:55:59 EDT",
  "submissionParameters": {
    "requestType": "delete-load-bid",
    "doCommit": true,
    "processUnidentifiedBids": true,
    "nyisoRequestId": "e5f6a7b8-c9d0-1234-efab-456789012345",
    "fingerprint": "b2c3d4e5f6a7b8c9d0e1f2a3b4c5d6e7f8a9b0c1",
    "caller": "MJONES"
  },
  "errors": [
    "CBM-21134 ERROR: The following bid was not located in the system: Load [] BID ID [1000000005] Date
[]"
  ],
  "requestStartTime": "2026-04-27T19:55:59.092557900Z",
  "count": 1,
  "rejected": [
    {
      "bidId": 1000000005
    }
  ]
}
```


**Note:** When a bid cannot be found, the response still returns HTTP 200 but places the bid in the rejected[] array with only the identifying field(s) provided. The errors array contains the descriptive error message.

### 7.2 Transaction Endpoints

### 7.2.1 GET /tran-sch — Retrieve Transaction Schedules

#### 7.2.1.1 Request

**HTTP Method + Full URL:**

GET https://updown-api.nyiso.com/updown/api/v1/tran-sch

Description: Retrieves transaction (bilateral) bid schedules for the authenticated user's organization. Requires marketType and startDateTime as mandatory parameters.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |

**Query Parameters:**

| Name | Type | Required | Description | Allowed Values | Example |
|---|---|---|---|---|---|
| marketType | String | Yes | Market type | DAM, HAM, NON-FIRM | DAM |
| startDateTime | String | Yes | Start date/time (ISO-8601) | ISO-8601 with offset | 2024-11-30T00:00:00-05:00 |
| transactionId | Long | No | Filter by transaction contract ID | Numeric | 1234 |
| sourceName | String | No | Source generator name | Alphanumeric | EXAMPLE_GEN |
| sourcePtid | Integer | No | Source PTID | Up to 6 digits | 23818 |
| sinkName | String | No | Sink load/generator name | Alphanumeric | EXAMPLE_LOAD |
| sinkPtid | Integer | No | Sink PTID | Up to 6 digits | 110802 |
| Status | String | No | Bid status filter | WAITING VALIDATION, VALIDATION FAILED, WAITING CONFIRMATION, VALIDATION PASSED, EVALUATING, BID | BID ACCEPTED |

| Name | Type | Required | Description | Allowed Values | Example |
|---|---|---|---|---|---|
| | | | | REJECTED, ADVISORY REJECTED, BID ACCEPTED, ADVISORY ACCEPTED, MODIFIED, PRE SCHED QUEUED, PRE SCHED REJECTED, PRE SCHED CONFIRMED, PRE SCH MRKT CLOSED | |
| userReference | String | No | User reference string | Text | S12345 |
| numHours | Integer | No | Number of hours | 0—23 | 6 |
| modifiedDate | String | No | Last modified date/time | ISO-8601 with offset | 2024-11-30T00:00-05:00 |

#### 7.2.1.2 Request Examples

**curl:**

```
curl -X GET "https://updown-api.nyiso.com/updown/api/v1/tran-sch?marketType=DAM&startDateTime=2024-11-30T00:00:00-05:00" \
  -H "Authorization: Basic <base64-encoded-credentials>" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem
```

**HTTPie:**

```
http GET "https://updown-api.nyiso.com/updown/api/v1/tran-sch" \
  "Authorization:Basic <base64-encoded-credentials>" \
  --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
  marketType==DAM startDateTime=="2024-11-30T00:00:00-05:00"
```

#### 7.2.1.3 Response

**200 OK — Success:**

| Field | Type | Description |
|---|---|---|
| nyisoRequestId | String | Auto-generated request correlation ID (UUID) |
| Errors | Array | Empty on success |
| transactionBids | Array | Array of transaction bid objects |
| transactionBids[].bidId | Integer | Unique bid ID |
| transactionBids[].bidDate | String | Bid hour (UTC, Z suffix) |
| transactionBids[].market | String | DAM, HAM, or NON-FIRM |
| transactionBids[].bidStatus | String | Bid status (e.g., WAITING_CONFIRMATION, BID_ACCEPTED) |
| transactionBids[].internalBilateralMw | Number | MW on this transaction |
| transactionBids[].priceCap | Number | Price-cap $/MWh (HAM only, if applicable) |

| Field | Type | Description |
|---|---|---|
| transactionBids[].nonFirmPriority | Integer | NERC priority (non-firm only) |
| transactionBids[].frpConfStatus | Boolean | FRP confirmation |
| transactionBids[].buyerConfStatus | Boolean | Buyer confirmation |
| transactionBids[].sellerConfStatus | Boolean | Seller confirmation |
| transactionBids[].contract | Object | Nested contract object (see below) |
| transactionBids[].contract.contractId | Integer | Contract ID |
| transactionBids[].contract.source | Object | Source generator summary (displayName, ptid) |
| transactionBids[].contract.sink | Object | Sink load summary (displayName, ptid) |
| transactionBids[].contract.userReference | String | User-supplied reference (e.g., S12345) |

**400 / 401 / 403 / 500:** See §2.6.

#### 7.2.1.4 Response Examples

**200 OK — Success:**


```
{
    "nyisoRequestId": "c3d4e5f6-a7b8-9012-cdef-345678901234",
    "errors": [],
    "transactionBids": [
      {
        "bidId": 1000000017,
        "bidDate": "2024-11-30T05:00:00Z",
        "contract": {
          "contractId": 90000001,
          "source": {
            "displayName": "EXAMPLE_GEN",
            "ptid": 23818
          },
          "sink": {
            "displayName": "EXAMPLE_CE_NY-CITY",
            "ptid": 110802
          },
          "userReference": "S12345"
        },
        "bidStatus": "BID_ACCEPTED",
        "market": "DAM",
        "internalBilateralMw": 10.0
      }
    ]
  }
```


**200 OK — Validation Error (missing required startDateTime parameter):**


```
{
    "requestStartTime": "2025-08-15T15:48:32.128968697Z",
    "requestEndTime": "2025-08-15T15:48:32.128971106Z",
    "count": 0,
```

```
  "message": "Invalid request parameters",
  "errors": [
   "getTransactionSchedules.startDateTime: UPD-10001 ERROR: The field Date & Time can not be null."
  ]
 }
```


**401 / 403 — User unauthorized to access transaction bidding:**


```
{
  "requestStartTime": "2025-09-02T01:06:28.636304556Z",
  "requestEndTime": "2025-09-02T01:06:28.636306257Z",
  "count": 0,
  "message": "Upload/Download Error",
  "errors": [
   "CBM-20000 ERROR: User is unauthorized to access the resource"
  ]
 }
```


### 7.2.2 GET /tran-contract — Retrieve Transaction Contracts

#### 7.2.2.1 Request

**HTTP Method + Full URL:**

GET https://updown-api.nyiso.com/updown/api/v1/tran-contract

**Description:** Retrieves bilateral transaction contracts. All parameters are optional filters.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |

**Query Parameters:**

| Name | Type | Required | Description | Example |
|---|---|---|---|---|
| transactionId | Long | No | Contract ID | 90000001 |
| sourceName | String | No | Source name | EXAMPLE_GEN |
| sourcePtid | Integer | No | Source PTID | 23818 |
| sinkName | String | No | Sink name | EXAMPLE_LOAD |
| sinkPtid | Integer | No | Sink PTID | 110802 |

| Name | Type | Required | Description | Example |
|---|---|---|---|---|
| userReference | String | No | User reference | S12345 |
| numRows | Integer | No | Max rows to return | 100 |
| sourceEnergyOrgId | Integer | No | Source energy org ID | 546231 |
| sinkEnergyOrgId | Integer | No | Sink energy org ID | 546231 |

#### 7.2.2.2 Request Examples

**curl:**

```
curl -X GET "https://updown-api.nyiso.com/updown/api/v1/tran-contract?sourcePtid=23818&sinkPtid=110802" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem
```

**HTTPie:**

```
http GET "https://updown-api.nyiso.com/updown/api/v1/tran-contract" \
     "Authorization:Basic <base64-encoded-credentials>" \
     --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
     sourcePtid==23818 sinkPtid==110802
```

#### 7.2.2.3 Response

**200 OK — Success:**

| Field | Type | Description |
|---|---|---|
| nyisoRequestId | String | Auto-generated request correlation ID |
| Errors | Array | Empty on success |
| transactionContracts | Array | Array of contract objects |
| transactionContracts[].contractId | Integer | Unique contract identifier |
| transactionContracts[].source.displayName | String | Source generator display name |
| transactionContracts[].source.ptid | Integer | Source PTID |
| transactionContracts[].source.generatorType | String | Generator type (e.g., NORMAL_30_MINUTE_START) |
| transactionContracts[].sink.displayName | String | Sink load display name |
| transactionContracts[].sink.ptid | Integer | Sink PTID |
| transactionContracts[].sink.loadType | String | Load type (e.g., REAL_LOAD) |
| transactionContracts[].userReference | String | User reference |
| transactionContracts[].sourceEnergyOrgId | Integer | Source energy organization ID |
| transactionContracts[].sinkEnergyOrgId | Integer | Sink energy organization ID |
| transactionContracts[].active | Boolean | Whether the contract is currently active |

#### 7.2.2.4 Response Examples

**200 OK:**


```
{
    "requestStartTime": "2026-01-15T10:00:00.000000000Z",
    "requestEndTime": "2026-01-15T10:00:00.050000000Z",
    "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
    "count": 3,
    "message": "Success",
    "transactionContracts": [
     {
      "contractId": 10000001,
      "source": {
       "displayName": "EXAMPLE_GEN_A",
       "ptid": 20001
      },
      "sink": {
       "ptid": 110001,
       "displayName": "EXAMPLE_LOAD_NORTH"
      },
      "userReference": "REF-001",
      "lastUpdateTime": "2026-01-10T08:30:00Z",
      "lastUpdateUser": {
       "contactName": "Jane Smith"
      }
     },
     {
      "contractId": 10000002,
      "source": {
       "displayName": "EXAMPLE_GEN_B",
       "ptid": 20002
      },
      "sink": {
       "ptid": 110002,
       "displayName": "EXAMPLE_LOAD_SOUTH"
      },
      "userReference": "REF-002",
      "lastUpdateTime": "2026-01-11T09:15:00Z",
      "lastUpdateUser": {
       "contactName": "John Doe"
      }
     },
     {
      "contractId": 10000003,
      "source": {
       "displayName": "EXAMPLE_GEN_HUB",
       "ptid": 320001
      },
      "sink": {
       "ptid": 100001,
       "displayName": "EXAMPLE_LOAD_HUB"
      },
      "userReference": "REF-HUB-001",
      "sourceEnergyOwnerOrg": {
       "orgId": 9000001
      },
      "sinkEnergyOwnerOrg": {
```

```
      "orgId": 9000001
    },
    "lastUpdateTime": "2026-01-12T14:45:00Z",
    "lastUpdateUser": {
      "contactName": "Jane Smith"
    }
  }
 ]
}
```


**400 / 401 / 403 / 500:** See §2.6.

#### 7.2.3 POST /tran-bid — Submit Transaction Bids

##### 7.2.3.1 Request

**HTTP Method + Full URL:**

POST https://updown-api.nyiso.com/updown/api/v1/tran-bid

**Description:** Submits one or more bilateral transaction bids. Each bid represents a single hour of transaction data between a source (generator) and sink (load).

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| Content-Type Header | application/json | Required. Request body format. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |

**Request Body Schema:**

**Array name:** The canonical request-body array for this endpoint is bids; submitTransactionBids is also accepted on input as an alias.

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| submissionParameters.doCommit | Boolean | Yes | Commit if valid | true |
| submissionParameters.processUnidentifiedBids | Boolean | No | Process bids for unidentified contracts | true |

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| bids[].bidDate (alias: submitTransactionBids[]) | String | Yes | Bid date/time (ISO-8601 with offset) | "2026-05-02T00:00:00-04:00" |
| bids[].sourceName | String | Conditional | Source generator display name | "EXAMPLE_GEN_A" |
| bids[].sourcePtid | Integer | Conditional | Source PTID (alternative to sourceName) | 100001 |
| bids[].sinkName | String | Conditional | Sink load display name | "EXAMPLE_LOAD_WEST" |
| bids[].sinkPtid | Integer | Conditional | Sink PTID (alternative to sinkName) | 110001 |
| bids[].userReference | String | Yes | Unique user reference for this contract | "S12345" |
| bids[].market | String | Yes | Market type | "DAM", "HAM", "NON-FIRM" |
| bids[].bidEnergyMw | Number | Yes | Fixed block energy MW | 1000 |
| bids[].nercPriority | Integer | No | NERC curtailment priority (1—7) | 7 |

#### 7.2.3.2 Request Examples

**curl — Single transaction bid (new contract by names):**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/tran-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": true
     },
     "bids": [{
       "bidDate": "2026-05-02T00:00:00-04:00",
       "sourceName": "EXAMPLE_GEN_A",
       "sinkName": "EXAMPLE_LOAD_WEST",
       "market": "DAM",
       "nercPriority": 7,
       "userReference": "S12345",
       "bidEnergyMw": 1000
```

```
    }]
  }'
```

**curl — Multi-bid (2 hours, DAM + HAM, by PTID and by name):**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/tran-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": true
     },
     "bids": [
       {
         "bidDate": "2026-05-02T00:00:00-04:00",
         "sourcePtid": 100001,
         "sinkPtid": 110001,
         "market": "DAM",
         "nercPriority": 7,
         "userReference": "S12345",
         "bidEnergyMw": 1000
       },
       {
         "bidDate": "2026-05-02T01:00:00-04:00",
         "sourceName": "EXAMPLE_GEN_A",
         "sinkName": "EXAMPLE_LOAD_WEST",
         "market": "HAM",
         "userReference": "S12346",
         "bidEnergyMw": 800
       }
     ]
   }'
```

**HTTPie:**

```
http POST "https://updown-api.nyiso.com/updown/api/v1/tran-bid" \
     "Authorization:Basic <base64-encoded-credentials>" \
     "Content-Type:application/json" \
     --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
     < tran-bid-body.json
```

#### 7.2.3.3 Response

Returns a submission response. Successfully submitted bids appear in accepted[]; re-bids on an existing contract appear in updated[]; rejected bids appear in rejected[].

| Field | Type | Description |
|---|---|---|
| requestTimestamp | String | Timestamp of the request (yyyy-MM-dd HH:mm:ss z) |
| submissionParameters | Object | Echo of the submission parameters |

| Field | Type | Description |
|---|---|---|
| nyisoRequestId | String | Auto-generated unique request correlation ID (UUID) for tracing and support |
| Errors | Array | Global error messages (empty on success) |
| validationErrors | Object | Map of bid key -> array of per-field error messages |
| failedValidation | Array | Array of bid objects that failed validation |
| passedValidation | Array | Array of bid objects that passed validation |
| Accepted | Array | Array of bid objects accepted by the market |
| Rejected | Array | Array of bid objects rejected by the market |

**400 Bad Request:** See §2.6.1 for the canonical errors[] + validationErrors{} shape. validationErrors is keyed by "Bid Index: <n> Load Name: <name>".

**401 / 403 / 500:** See §2.6.2—§2.6.4.

#### 7.2.3.4 Response Examples

**200 OK — Success (bid accepted, awaiting confirmation):**


```
{
    "requestTimestamp": "2026-05-02 08:53:03 EDT",
    "submissionParameters": {
      "requestType": "tran-bid",
      "doCommit": true,
      "processUnidentifiedBids": true,
      "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
      "fingerprint": "a1b2c3d4e5f6a7b8c9d0e1f2a3b4c5d6e7f8a9b0",
      "caller": "JSMITH"
    },
    "requestStartTime": "2026-05-02T12:53:03.620174607Z",
    "count": 1,
    "accepted": [
      {
        "bidDate": "2026-05-02T04:00Z",
        "bidId": 1000000001,
        "contract": {
          "contractId": 90000001,
          "source": {
            "displayName": "EXAMPLE_GEN_A",
            "ptid": 100001
          },
          "sink": {
            "displayName": "EXAMPLE_LOAD_WEST",
            "ptid": 110001
          },
          "userReference": "S12345"
        },
        "bidStatus": "WAITING_CONFIRMATION",
```

```
      "frpConfStatus": true,
      "buyerConfStatus": true,
      "sellerConfStatus": false,
      "market": "DAM",
      "internalBilateralMw": 1000,
      "nercPriority": 7
    }
  ]
}
```


**Note:** bidStatus: "WAITING_CONFIRMATION" is the normal initial state for bilateral transaction bids. All parties (frpConfStatus, buyerConfStatus, sellerConfStatus) must confirm before the bid is eligible for market scheduling. See §7.2.4 for the confirm-tran-bid endpoint.

**400 Bad Request — Invalid bid date (ISO-8601 violation, e.g., 2025-09-31):**


```
{
    "requestStartTime": "2025-08-15T15:48:32.128968697Z",
    "requestEndTime": "2025-08-15T15:48:32.128971106Z",
    "count": 0,
    "message": "Invalid request parameters",
    "errors": [
      "getTransactionSchedules.startDateTime: UPD-10001 ERROR: The field Date & Time can not be null."
    ]
}
```


**401 / 403 — User unauthorized to access transaction bidding:**


```
{
    "requestStartTime": "2025-09-02T01:06:28.636304556Z",
    "requestEndTime": "2025-09-02T01:06:28.636306257Z",
    "count": 0,
    "message": "Upload/Download Error",
    "errors": [
      "CBM-20000 ERROR: User is unauthorized to access the resource"
    ]
}
```


### 7.2.4 POST /confirm-tran-bid — Confirm Transaction Bids

#### 7.2.4.1 Request

**HTTP Method + Full URL:**

POST https://updown-api.nyiso.com/updown/api/v1/confirm-tran-bid

**Description**: Confirms or rejects one or more bilateral transaction bids that are in WAITING_CONFIRMATION status. Bilateral transactions require confirmation from multiple parties (seller, buyer, and/or FRP) before they are eligible for market scheduling.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| Content-Type Header | application/json | Required. Request body format. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |

**Request Body Schema:**

**Array name:** The canonical request-body array for this endpoint is bids; confirmTransactionBids is also accepted on input as an alias. Either name works.

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| submissionParameters.doCommit | Boolean | Yes | Commit confirmation | true |
| bids[].bidId (alias: confirmTransactionBids[]) | Integer | Yes | Bid ID to confirm/reject | 1000000017 |
| bids[].tranId | Integer | No | Transaction (contract) ID | 90000001 |
| bids[].bidDate | String | No | Bid date/time (ISO-8601) | "2026-05-01T00:00:00-04:00" |
| bids[].confirmFlag | Boolean | Yes | true to confirm, false to reject | true |

#### 7.2.4.2 Request Examples

**curl:**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/confirm-tran-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": true
     },
     "bids": [{
       "bidId": 1000000017,
       "tranId": 90000001,
       "bidDate": "2026-05-01T00:00:00-04:00",
       "confirmFlag": true
```

```
    }]
  }'
```

**HTTPie:**

```
http POST "https://updown-api.nyiso.com/updown/api/v1/confirm-tran-bid" \
    "Authorization:Basic <base64-encoded-credentials>" \
    "Content-Type:application/json" \
    --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
    < confirm-tran-body.json
```

**curl — Multi-bid (2 bids, one confirm + one reject):**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/confirm-tran-bid" \
    -H "Authorization: Basic <base64-encoded-credentials>" \
    -H "Content-Type: application/json" \
    --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
    -d '{
    "submissionParameters": {
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "bids": [
      { "bidId": 1000000021, "confirmFlag": true },
      { "bidId": 1000000019, "confirmFlag": false }
    ]
  }'
```

#### 7.2.4.3 Response

**200 OK:** Returns submission result with an updated array containing the confirmed/rejected bids. Each entry includes the contract details (source generator and sink load), confirmation statuses (frpConfStatus, buyerConfStatus, sellerConfStatus), and bidStatus.

**400 / 401 / 403 / 500:** See §2.6.

#### 7.2.4.4 Response Examples

**200 OK — Bid confirmation updated (seller rejected, sellerConfStatus: false):**


```
{
    "requestTimestamp": "2026-04-28 10:04:15 EDT",
    "submissionParameters": {
      "requestType": "confirm-tran-bid",
      "doCommit": true,
      "processUnidentifiedBids": true,
      "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
      "fingerprint": "a1b2c3d4e5f6a7b8c9d0e1f2a3b4c5d6e7f8a9b0",
      "caller": "JSMITH"
    },
    "updated": [
      {
        "bidId": 1000000017,
        "bidDate": "2026-05-01T04:00:00Z",
```

```
      "contract": {
        "contractId": 90000001,
        "source": {
          "displayName": "EXAMPLE_GEN_A",
          "ptid": 100001
        },
        "sink": {
          "displayName": "EXAMPLE_LOAD_WEST",
          "ptid": 110001
        },
        "userReference": "S12345"
      },
      "bidStatus": "WAITING_CONFIRMATION",
      "frpConfStatus": true,
      "buyerConfStatus": true,
      "sellerConfStatus": false,
      "market": "DAM"
    }
  ]
}
```


**401 / 403 — Dispatcher/observer role lacks confirm-tran-bid authority:**


```
{
  "requestStartTime": "2025-09-04T13:29:37.031694842Z",
  "requestEndTime": "2025-09-04T13:29:37.031696005Z",
  "count": 0,
  "message": "Upload/Download Error",
  "errors": [
    "CBM-20000 ERROR: User is unauthorized to access the resource"
  ]
}
```


### 7.2.5 POST /delete-tran-bid — Delete Transaction Bids

#### 7.2.5.1 Request

**HTTP Method + Full URL:**

POST https://updown-api.nyiso.com/updown/api/v1/delete-tran-bid

**Description:** Deletes one or more previously submitted bilateral transaction bids. Bids can be identified by bidId, or by a combination of tranId, bidDate, and market.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| Content-Type Header | application/json | Required. Request body format. |

| Requirement | Value / Format | Description |
|---|---|---|
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |

**Request Body Schema:**

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| deleteTransactionBids[].bidId | Integer | Conditional | Bid ID (sufficient alone) | 1000000019 |
| deleteTransactionBids[].tranId | Long | Conditional | Transaction/contract ID | 90000002 |
| deleteTransactionBids[].market | String | No | Market type | "DAM" or "HAM" |
| deleteTransactionBids[].bidDate | String | Conditional | Bid date (ISO-8601) | "2025-09-05T06:00:00-04:00" |

#### 7.2.5.2 Request Examples

**curl — Delete 3 bids by bidId:**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/delete-tran-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": true
     },
     "bids": [
       { "bidId": 1000000001 },
       { "bidId": 1000000003 },
       { "bidId": 1000000005 }
     ]
    }'
```

**curl — Delete by tranId + bidDate + market (when bidId is unknown):**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/delete-tran-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true
     },
```

```
  "bids": [
    { "tranId": 90000002, "bidDate": "2026-05-02T00:00:00-04:00", "market": "DAM" }
  ]
}'
```

**HTTPie:**

```
http POST "https://updown-api.nyiso.com/updown/api/v1/delete-tran-bid" \
    "Authorization:Basic <base64-encoded-credentials>" \
    "Content-Type:application/json" \
    --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
    < delete-tran-body.json
```

#### 7.2.5.3 Response

**200 OK:** Returns submission result with deleted array.

**400 / 401 / 403 / 500:** See §2.6.

#### 7.2.5.4 Response Examples

**200 OK — Success (bid deleted):**


```
{
    "requestTimestamp": "2026-05-02 09:52:40 EDT",
    "submissionParameters": {
      "requestType": "delete-tran-bid",
      "doCommit": true,
      "processUnidentifiedBids": true,
      "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
      "fingerprint": "a1b2c3d4e5f6a7b8c9d0e1f2a3b4c5d6e7f8a9b0",
      "caller": "JSMITH"
    },
    "requestStartTime": "2026-05-02T13:52:40.317660Z",
    "count": 1,
    "deleted": [
      {
        "bidId": 1000000001,
        "bidDate": "2026-05-02T04:00Z",
        "contract": {
          "contractId": 90000001,
          "source": {
            "displayName": "EXAMPLE_GEN_A",
            "ptid": 100001
          },
          "sink": {
            "displayName": "EXAMPLE_LOAD_WEST",
            "ptid": 110001
          },
          "userReference": "S12345"
        },
        "bidStatus": "WAITING_CONFIRMATION",
        "market": "DAM"
      }
```

```
    ]
  }
```


**200 OK — All 3 bids not found (all rejected):**

**Note:** When submitted bidId values do not match any existing bid, the response is still HTTP 200. Each unmatched bid appears in rejected array with the corresponding error in the top-level errors array (one entry per rejected bid). count reflects the number of entries processed — not necessarily deleted.


```
{
    "requestTimestamp": "2026-04-28 13:46:08 EDT",
    "submissionParameters": {
      "requestType": "delete-tran-bid",
      "doCommit": true,
      "processUnidentifiedBids": true,
      "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
      "fingerprint": "a1b2c3d4e5f6a7b8c9d0e1f2a3b4c5d6e7f8a9b0",
      "caller": "JSMITH"
    },
    "errors": [
      "CBM-10065 ERROR: Bid not found. Cannot delete. (bidId: 1000000013)",
      "CBM-10065 ERROR: Bid not found. Cannot delete. (bidId: 1000000005)",
      "CBM-10065 ERROR: Bid not found. Cannot delete. (bidId: 1000000007)"
    ],
    "requestStartTime": "2026-04-28T17:46:08.787864300Z",
    "count": 3,
    "rejected": [
      { "bidId": 1000000013, "nercPriority": 7 },
      { "bidId": 1000000005, "nercPriority": 7 },
      { "bidId": 1000000007, "nercPriority": 7 }
    ]
  }
```


**401 / 403 — User role lacks delete-tran-bid authority:**


```
{
    "requestStartTime": "2025-09-04T13:29:37.031694842Z",
    "requestEndTime": "2025-09-04T13:29:37.031696005Z",
    "count": 0,
    "message": "Upload/Download Error",
    "errors": [
      "CBM-10051 ERROR: User is not authorized to delete transactions."
    ]
  }
```


## 7.3 Generator Endpoints

### 7.3.1 GET /gen-detail — Retrieve Generator Details

#### 7.3.1.1 Request

**HTTP Method + Full URL:**

GET https://updown-api.nyiso.com/updown/api/v1/gen-detail

**Description:** Retrieves detailed information about generator units, including generator name, PTID, type, operating limits, zone, and qualifications. Results can be filtered by generator name or PTID.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |

**Query Parameters:**

| Name | Type | Required | Description | Example |
|---|---|---|---|---|
| genName | String | No | Generator name | EXAMPLE_GEN |
| Ptid | Integer | No | Generator PTID (up to 6 digits) | 546231 |

#### 7.3.1.2 Request Examples

**curl:**

```
curl -X GET "https://updown-api.nyiso.com/updown/api/v1/gen-detail?genName=EXAMPLE_GEN" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem
```

**HTTPie:**

```
http GET "https://updown-api.nyiso.com/updown/api/v1/gen-detail" \
     "Authorization:Basic <base64-encoded-credentials>" \
     --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
     genName==EXAMPLE_GEN
```

#### 7.3.1.3 Response

**200 OK — Success:**

| Field | Type | Description |
|---|---|---|
| requestStartTime | String | ISO-8601 timestamp when request processing began |
| requestEndTime | String | ISO-8601 timestamp when request processing completed |
| nyisoRequestId | String | Auto-generated unique request correlation ID (UUID) |

| Field | Type | Description |
|---|---|---|
| Count | Integer | Number of records returned |
| Message | String | Status message (e.g., "Success") |
| generatorDetails | Array | Array of generator detail objects |
| generatorDetails[].displayName | String | Full display name (e.g., "EXMPLSE_SP_LOADBUS1") |
| generatorDetails[].ptid | Integer | Generator PTID |
| generatorDetails[].active | Boolean | Whether the generator is currently active |
| generatorDetails[].generatorType | String | Generator type (e.g., NON_UTILITY_GENERATOR, NORMAL_30_MINUTE_START, QUICK_START, WIND, ESR, BTM_NG, CSR) |
| generatorDetails[].physicalMinimumGenerationMw | Number | Physical minimum generation (MW) |
| generatorDetails[].maxRegulationResponseRate | Number | Max regulation response rate |
| generatorDetails[].max6SecRegulationResponseRate | Number | Max 6-second regulation response rate |
| generatorDetails[].emergencyResponseRate | Number | Emergency response rate |
| generatorDetails[].normalResponseRate1 | Number | Normal response rate |
| generatorDetails[].avrQualified | Boolean | AVR qualified |
| generatorDetails[].bidDamFixedEnergyQualified | Boolean | DAM fixed energy bid qualified |
| generatorDetails[].bidHamFixedEnergyQualified | Boolean | HAM fixed energy bid qualified |
| generatorDetails[].damDispatchableEnergyQualified | Boolean | DAM dispatchable energy qualified |
| generatorDetails[].hamDispatchableEnergyQualified | Boolean | HAM dispatchable energy qualified |
| generatorDetails[].dam10MinuteSpinningQualified | Boolean | DAM 10-min spinning reserve qualified |
| generatorDetails[].dam10MinuteNonSynchQualified | Boolean | DAM 10-min non-synch reserve qualified |
| generatorDetails[].dam30MinuteSpinningQualified | Boolean | DAM 30-min spinning reserve qualified |
| generatorDetails[].dam30MinuteNonSynchQualified | Boolean | DAM 30-min non-synch reserve qualified |
| generatorDetails[].damRegulationControlQualified | Boolean | DAM regulation control qualified |
| generatorDetails[].ham10MinuteSpinningQualified | Boolean | HAM 10-min spinning reserve qualified |
| generatorDetails[].ham10MinuteNonSynchQualified | Boolean | HAM 10-min non-synch reserve qualified |
| generatorDetails[].ham30MinuteSpinningQualified | Boolean | HAM 30-min spinning reserve qualified |

| Field | Type | Description |
|---|---|---|
| generatorDetails[].ham30MinuteNonSynchQualified | Boolean | HAM 30-min non-synch reserve qualified |
| generatorDetails[].hamRegulationControlQualified | Boolean | HAM regulation control qualified |
| generatorDetails[].subzone | Object | Subzone information |
| generatorDetails[].subzone.ptid | Integer | Subzone PTID |
| generatorDetails[].subzone.subzoneName | String | Subzone name |
| generatorDetails[].subzone.zone | Object | Zone information |
| generatorDetails[].subzone.zone.ptid | Integer | Zone PTID |
| generatorDetails[].subzone.zone.zoneName | String | Zone name |
| generatorDetails[].limits | Object | Operating limits |
| generatorDetails[].limits.maxSummerOperatingLimit | Number | Maximum summer operating limit (MW) |
| generatorDetails[].limits.maxWinterOperatingLimit | Number | Maximum winter operating limit (MW) |
| generatorDetails[].limits.summerIcapContracts | Number | Summer ICAP contracts (MW) |
| generatorDetails[].limits.winterIcapContracts | Number | Winter ICAP contracts (MW) |
| generatorDetails[].contact | Object | Contact info for the generator's responsible party |
| generatorDetails[].contact.contactName | String | Contact person name |
| generatorDetails[].contact.contactAddress | String | Full address (single string) |
| generatorDetails[].contact.addressLine1 | String | Address line 1 |
| generatorDetails[].contact.addressLine2 | String | Address line 2 |
| generatorDetails[].contact.addressLine3 | String | Address line 3 |
| generatorDetails[].contact.primaryPhone | String | Primary phone number |
| generatorDetails[].contact.secondPhone | String | Secondary phone number |
| generatorDetails[].contact.faxNumber | String | Fax number |
| generatorDetails[].contact.primaryEmail | String | Primary email address |

**400 / 401 / 403 / 500:** See §2.6. ##### 7.3.1.4 Response Examples **200 OK — Success:**


```
{
    "requestStartTime": "2026-04-28T13:43:38.872468280Z",
    "requestEndTime": "2026-04-28T13:43:39.660559994Z",
    "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
    "count": 1,
    "message": "Success",
    "generatorDetails": [
      {
        "displayName": "EXAMPLE_NUG_FALLS",
        "ptid": 100001,
```

```
      "active": true,
      "subzone": {
       "ptid": 200001,
       "subzoneName": "EXAMPLE SUBZONE",
       "zone": {
        "ptid": 300001,
        "zoneName": "EXZONE"
       }
      },
      "generatorType": "NON_UTILITY_GENERATOR",
      "bidDamFixedEnergyQualified": true,
      "bidHamFixedEnergyQualified": true,
      "dam10MinuteSpinningQualified": false,
      "dam10MinuteNonSynchQualified": false,
      "dam30MinuteSpinningQualified": false,
      "dam30MinuteNonSynchQualified": false,
      "damRegulationControlQualified": false,
      "physicalMinimumGenerationMw": 0,
      "maxRegulationResponseRate": 0.5,
      "max6SecRegulationResponseRate": 0.05,
      "damDispatchableEnergyQualified": true,
      "hamDispatchableEnergyQualified": true,
      "ham10MinuteSpinningQualified": false,
      "ham10MinuteNonSynchQualified": false,
      "ham30MinuteSpinningQualified": false,
      "ham30MinuteNonSynchQualified": false,
      "hamRegulationControlQualified": false,
      "contact": {
       "contactName": "Jane Doe",
       "contactAddress": "Example Energy Corp. 123 Main St. Anytown, NY 10001",
       "addressLine1": "Example Energy Corp.",
       "addressLine2": "123 Main St.",
       "addressLine3": "Anytown, NY 10001",
       "primaryPhone": "555-123-4567",
       "secondPhone": "555-234-5678",
       "faxNumber": "555-345-6789",
       "primaryEmail": "contact@example.com"
      },
      "limits": {
       "maxSummerOperatingLimit": 44,
       "maxWinterOperatingLimit": 44,
       "summerIcapContracts": 0,
       "winterIcapContracts": 0
      },
      "emergencyResponseRate": 0.5,
      "normalResponseRate1": 0.5,
      "avrQualified": false
     }
    ]
   }
```


**200 OK — Generator not found or not authorized:** > **Note:** Generator lookup errors are returned as HTTP 200 with count: 0 and the error message in the errors[] array (one entry per error).


```
{
    "requestStartTime": "2026-04-28T13:36:55.283474990Z",
```

```
  "requestEndTime": "2026-04-28T13:36:55.283476575Z",
  "count": 0,
  "message": "Upload/Download Error",
  "errors": [
    "CBM-40002 ERROR: Submitted Generator could not be identified.  The Generator either does not exist, th
e user is not authorized to bid on the Generator or the Generator is associated with a Generator Type that is not
qualified to bid generation."
  ]
}
```


#### 7.3.2 GET /gen-sch — Retrieve Generator Bids & Schedules

##### 7.3.2.1 Request

**HTTP Method + Full URL:**

GET https://updown-api.nyiso.com/updown/api/v1/gen-sch

**Description:** Retrieves generator bids and schedules for the authenticated user's organization. Requires marketType, startDateTime, and currentAdvisorySchedulesFlag.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see Section 2.4 of this guide). |

**Query Parameters:**

| Name | Type | Required | Description | Allowed Values | Example |
|---|---|---|---|---|---|
| marketType | String | Yes | Market type | DAM, HAM | DAM |
| startDateTime | String | Yes | Start date/time (ISO-8601) | ISO-8601 with offset | 2026-05-01T00:00:00-04:00 |
| currentAdvisorySchedulesFlag | String | Yes | Include current advisory schedules | Y, N | Y |
| genName | String | No | Generator name | Alphanumeric | EXAMPLE_GEN |
| Ptid | Integer | No | Generator PTID | Up to 6 digits | 546231 |

| Name | Type | Required | Description | Allowed Values | Example |
|---|---|---|---|---|---|
| Status | String | No | Bid status filter | VALIDATION PASSED, VALIDATION FAILED, EVALUATING, BID ACCEPTED, BID REJECTED | BID ACCEPTED |
| numHours | Integer | No | Number of hours | 0—23 | 6 |
| lastModifiedDateTime | String | No | Last modified date | ISO-8601 with offset | 2026-05-01T00:00:00-04:00 |

#### 7.3.2.2 Request Examples

**curl:**

```
curl -X GET "https://updown-api.nyiso.com/updown/api/v1/gen-sch?marketType=DAM&startDateTime=2026-05-01T00:00:00-04:00&currentAdvisorySchedulesFlag=Y" \
  -H "Authorization: Basic <base64-encoded-credentials>" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem
```

**HTTPie:**

```
http GET "https://updown-api.nyiso.com/updown/api/v1/gen-sch" \
  "Authorization:Basic <base64-encoded-credentials>" \
  --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
  marketType==DAM startDateTime=="2026-05-01T00:00:00-04:00" currentAdvisorySchedulesFlag==Y
```

#### 7.3.2.3 Response

**200 OK — Success:**

| Field | Type | Description |
|---|---|---|
| requestStartTime | String | ISO-8601 timestamp when request processing began |
| requestEndTime | String | ISO-8601 timestamp when request processing completed |
| nyisoRequestId | String | Auto-generated unique request correlation ID (UUID) |
| count | Integer | Number of records returned |
| message | String | Status message (e.g., "Success") |
| generatorBidAndSchedules | Array | Array of bid+schedule wrapper objects |
| generatorBidAndSchedules[].generatorBid | Object | Generator bid details |
| generatorBidAndSchedules[].generatorBid.generator | Object | Generator identity |
| generatorBidAndSchedules[].generatorBid.generator.displayName | String | Full generator display name |

| Field | Type | Description |
|---|---|---|
| generatorBidAndSchedules[].generatorBid.generator.ptid | Integer | Generator PTID |
| generatorBidAndSchedules[].generatorBid.bidDate | String | Bid hour in UTC (Z suffix) |
| generatorBidAndSchedules[].generatorBid.generatorBidMarket | String | Market type (e.g., DAM or HAM) |
| generatorBidAndSchedules[].generatorBid.bidStatus | String | Bid status (e.g., VALIDATION_PASSED, BID_ACCEPTED) |
| generatorBidAndSchedules[].generatorBid.upperOperatingLimit | Number | Upper operating limit (MW) |
| generatorBidAndSchedules[].generatorBid.emergencyUpperOperatingLimit | Number | Emergency upper operating limit (MW) |
| generatorBidAndSchedules[].generatorBid.scheduleType | String | Schedule type (e.g., ISO_COMMITTED_FLEXIBLE, SELF_COMMITTED_FLEXIBLE) |
| generatorBidAndSchedules[].generatorBid.fixedMinimumGenerationMw | Number | Fixed min-gen MW |
| generatorBidAndSchedules[].generatorBid.fixedMinimumGenerationCost | Number | Fixed min-gen cost |
| generatorBidAndSchedules[].generatorBid.dispatchCurve | Object | Dispatch curve (dispatchDollar1/dispatchMw1 … dispatchDollar12/dispatchMw12) |
| generatorBidAndSchedules[].generatorBid.regulationMw | Number | Regulation MW offered (present when bid includes regulation) |
| generatorBidAndSchedules[].generatorBid.regulationCost | Number | Regulation cost |
| generatorBidAndSchedules[].generatorBid.regulationMovementCost | Number | Regulation movement cost |
| generatorBidAndSchedules[].generatorBid.bidId | Integer | Assigned bid ID |
| generatorBidAndSchedules[].generatorBid.esrBidFields | Object | ESR-specific fields (e.g., esrLowerOperatingLimit) |
| generatorBidAndSchedules[].generatorBid.genSchedules | Array | RTD schedule entries for this bid |
| generatorBidAndSchedules[].generatorBid.genSchedules[].generator | Object | Generator identity (displayName, ptid) |
| generatorBidAndSchedules[].generatorBid.genSchedules[].market | String | Market identifier (RTD) |
| generatorBidAndSchedules[].generatorBid.genSchedules[].intervalBeginTimeStamp | String | Schedule interval start time (UTC) |

| Field | Type | Description |
|---|---|---|
| generatorBidAndSchedules[].generatorBid.genSchedules[].intervalEndTimeStamp | String | Schedule interval end time (UTC) |
| generatorBidAndSchedules[].generatorBid.genSchedules[].schedMw | Number | Scheduled energy MW |
| generatorBidAndSchedules[].generatorBid.genSchedules[].schedTenMinSpinReserve | Number | Scheduled 10-min spinning reserve MW |
| generatorBidAndSchedules[].generatorBid.genSchedules[].schedThirtyMinSpinReserve | Number | Scheduled 30-min spinning reserve MW |
| generatorBidAndSchedules[].generatorBid.genSchedules[].schedRegulationMw | Number | Scheduled regulation MW |
| generatorBidAndSchedules[].generatorBid.genSchedules[].schedStartUpCost | Number | Scheduled startup cost |
| generatorBidAndSchedules[].generatorBid.genSchedules[].bidId | Integer | Assigned bid ID |
| generatorBidAndSchedules[].generatorBid.genSchedules[].esrBidFields | Object | ESR-specific fields (e.g., esrLowerOperatingLimit) |
| generatorBidAndSchedules[].currentAdvisorySchedulesFlag | Boolean | Whether advisory schedules were included for this bid |
| generatorAdvSchedules | Array | Advisory/historical schedule records (present when currentAdvisorySchedulesFlag=Y) |
| generatorAdvSchedules[].generator | Object | Generator identity (displayName, ptid) |
| generatorAdvSchedules[].intervalEndTimeStamp | String | Schedule interval end time (UTC) |
| generatorAdvSchedules[].schedMw | Number | Scheduled energy MW |
| generatorAdvSchedules[].schedTenMinSpinReserve | Number | Scheduled 10-min spinning reserve MW |
| generatorAdvSchedules[].schedThirtyMinSpinReserve | Number | Scheduled 30-min spinning reserve MW |
| generatorAdvSchedules[].schedRegulationMw | Number | Scheduled regulation MW |
| generatorAdvSchedules[].schedStartUpCost | Number | Scheduled startup cost |
| generatorAdvSchedules[].isAdvisory | Boolean | Whether this is an advisory schedule |
| generatorAdvSchedules[].scheduleSourceType | String | Schedule source (e.g., RTD Hist, RTC) |

**400 / 401 / 403 / 500:** See Section 2.6 of this guide.

#### 7.3.2.4 Response Examples

**200 OK — Success (truncated to 1 of 19 bid records and 2 of 13 advisory schedule records):**


```
{
    "requestStartTime": "2026-05-01T13:43:38.872468280Z",
```

```
"requestEndTime": "2026-05-01T13:43:39.660559994Z",
"nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
"count": 19,
"message": "Success",
"generatorBidAndSchedules": [
 {
  "generatorBid": {
   "generator": {
    "displayName": "EXAMPLE_GEN_A",
    "ptid": 100001
   },
   "bidDate": "2026-05-02T04:00Z",
   "generatorBidMarket": "DAM",
   "bidStatus": "VALIDATION_PASSED",
   "upperOperatingLimit": 250,
   "emergencyUpperOperatingLimit": 250,
   "startupCost": 0,
   "scheduleType": "ISO_COMMITTED_FIXED",
   "fixedMinimumGenerationMw": 20,
   "fixedMinimumGenerationCost": 100,
   "dispatchCurve": {
    "dispatchDollar1": 255,
    "dispatchMw1": 250
   },
   "bidId": 1000000001,
   "esrBidFields": {
    "esrLowerOperatingLimit": 20
   },
   "genSchedules": [
    {
     "generator": {
      "displayName": "EXAMPLE_GEN_A",
      "ptid": 100001
     }
    }
   ]
  },
  "currentAdvisorySchedulesFlag": false
 }
],
"generatorAdvSchedules": [
 {
  "generator": {
   "displayName": "EXAMPLE_GEN_A",
   "ptid": 100001
  },
  "intervalEndTimeStamp": "2026-05-01T00:00:00Z",
  "schedTenMinNonSyncReserve": 0,
  "schedThirtyMinNonSyncReserve": 0,
  "schedStartUpCost": 0,
  "isAdvisory": true,
  "scheduleSourceType": "RTD Hist"
 },
 {
  "generator": {
   "displayName": "EXAMPLE_GEN_A",
```

```
        "ptid": 100001
      },
      "intervalEndTimeStamp": "2026-05-01T00:15:00Z",
      "schedMw": 0,
      "schedRegulationMw": 0,
      "isAdvisory": true,
      "scheduleSourceType": "RTC"
    }
  ]
}
```


**400 Bad Request — Missing required currentAdvisorySchedulesFlag parameter:**


```
{
  "requestStartTime": "2026-05-01T13:42:03.057002172Z",
  "count": 0,
  "errors": [
    "getGenSch.currentAdvisorySchedulesFlag: UPD-10044 ERROR: The field CURRENT_ADVISORY_SCH
  EDULES_FLAG cannot be null."
  ]
}
```


#### 7.3.3.4 Response Examples

**200 OK — Success (truncated to 2 of 1806 bid records; generatorAdvSchedules similarly truncated):**


```
{
  "requestStartTime": "2026-04-28T17:09:48.196632Z",
  "requestEndTime": "2026-04-28T17:09:48.209633800Z",
  "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
  "count": 1806,
  "message": "Success",
  "generatorBidAndSchedules": [
    {
      "generatorBid": {
        "generator": {
          "displayName": "EXAMPLE_GEN_A",
          "ptid": 100001
        },
        "bidDate": "2026-04-15T04:00Z",
        "generatorBidMarket": "HAM",
        "bidStatus": "VALIDATION_PASSED",
        "upperOperatingLimit": 369.9,
        "emergencyUpperOperatingLimit": 369.9,
        "scheduleType": "SELF_COMMITTED_FLEXIBLE",
        "selfCommitmentCurve": {
          "selfCommitMw00": 75,
          "selfCommitMw15": 75,
          "selfCommitMw30": 75,
          "selfCommitMw45": 75
        },
        "fixedMinimumGenerationMw": 75,
        "fixedMinimumGenerationCost": 4455,
        "dispatchCurve": {
          "dispatchDollar1": 255,
          "dispatchMw1": 250
        },
        "bidId": 1000000001,
```

```
    "esrBidFields": {
      "esrLowerOperatingLimit": 75
    },
    "genSchedules": [
      {
        "generator": {
          "displayName": "EXAMPLE_GEN_A",
          "ptid": 100001
        },
        "market": "RTD",
        "intervalBeginTimeStamp": "2026-04-15T04:15:00Z",
        "intervalEndTimeStamp": "2026-04-15T04:30:00Z",
        "schedMw": 75,
        "schedTenMinSpinReserve": 35,
        "schedThirtyMinSpinReserve": 0,
        "schedRegulationMw": 0,
        "schedStartUpCost": 0
      },
      {
        "generator": {
          "displayName": "EXAMPLE_GEN_A",
          "ptid": 100001
        },
        "market": "RTD",
        "intervalBeginTimeStamp": "2026-04-15T04:30:00Z",
        "intervalEndTimeStamp": "2026-04-15T04:45:00Z",
        "schedMw": 75,
        "schedTenMinSpinReserve": 35,
        "schedThirtyMinSpinReserve": 0,
        "schedRegulationMw": 0,
        "schedStartUpCost": 0
      }
    ]
  },
  "currentAdvisorySchedulesFlag": false
},
{
  "generatorBid": {
    "generator": {
      "displayName": "EXAMPLE_GEN_B",
      "ptid": 100002
    },
    "bidDate": "2026-04-15T04:00Z",
    "generatorBidMarket": "HAM",
    "bidStatus": "VALIDATION_PASSED",
    "upperOperatingLimit": 17,
    "emergencyUpperOperatingLimit": 17,
    "scheduleType": "ISO_COMMITTED_FLEXIBLE",
    "fixedMinimumGenerationMw": 0,
    "fixedMinimumGenerationCost": 0,
    "dispatchCurve": {
      "dispatchDollar1": 92.91,
      "dispatchMw1": 17
    },
    "bidId": 1000000003,
    "esrBidFields": {
```

```
      "esrLowerOperatingLimit": 0
     },
     "genSchedules": [
      {
       "generator": {
        "displayName": "EXAMPLE_GEN_B",
        "ptid": 100002
       },
       "market": "RTD",
       "intervalBeginTimeStamp": "2026-04-15T04:15:00Z",
       "intervalEndTimeStamp": "2026-04-15T04:30:00Z",
       "schedMw": 17.5,
       "schedTenMinSpinReserve": 0,
       "schedThirtyMinSpinReserve": 0,
       "schedRegulationMw": 0,
       "schedStartUpCost": 72.55
      }
     ]
    },
    "currentAdvisorySchedulesFlag": false
   }
  ],
  "generatorAdvSchedules": [
   {
    "generator": {
     "displayName": "EXAMPLE_GEN_A",
     "ptid": 100001
    },
    "intervalEndTimeStamp": "2026-03-11T00:00:00Z",
    "schedMw": 75,
    "schedTenMinSpinReserve": 35,
    "schedThirtyMinSpinReserve": 0,
    "schedRegulationMw": 0,
    "schedStartUpCost": 0,
    "isAdvisory": true,
    "scheduleSourceType": "RTD Hist"
   },
   {
    "generator": {
     "displayName": "EXAMPLE_GEN_A",
     "ptid": 100001
    },
    "intervalEndTimeStamp": "2026-03-19T23:30:00Z",
    "schedMw": 180,
    "schedTenMinSpinReserve": 40,
    "schedThirtyMinSpinReserve": 80,
    "schedRegulationMw": 20,
    "schedStartUpCost": 0,
    "isAdvisory": true,
    "scheduleSourceType": "RTC"
   }
  ]
 }
```


**200 OK — Error (missing required currentAdvisorySchedulesFlag parameter):**

**Note:** As with other BUD GET endpoints, parameter validation errors are returned as HTTP 200 with count: 0 and the error in errors[].


```
{
  "requestStartTime": "2026-04-28T13:42:03.057002172Z",
  "count": 0,
  "errors": [
    "getGenSch.currentAdvisorySchedulesFlag: UPD-10044 ERROR: The field CURRENT_ADVISORY_SCHEDULES_FLAG cannot be null."
  ]
}
```


#### 7.3.4 GET /gen-out — Retrieve Generator Outages/Deratings

##### 7.3.4.1 Request

**HTTP Method + Full URL:**

GET https://updown-api.nyiso.com/updown/api/v1/gen-out

**Description:** Retrieves generator outage/derating declarations (GEN_OUT in MPUG Section 8.3). If genOutages=CURRENT is provided, only current outages are returned; otherwise all outages are retrieved regardless of date.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see Section 2.4 of this guide). |

**Query Parameters:**

| Name | Type | Required | Description | Example |
|---|---|---|---|---|
| genName | String | No | Generator name | EXAMPLE_GEN |
| Ptid | Integer | No | Generator PTID | 546231 |
| genOutages | String | No | If CURRENT, only current outages | CURRENT or omit |

##### 7.3.4.2 Request Examples

**curl:**

```
curl -X GET "https://updown-api.nyiso.com/updown/api/v1/gen-out?genName=EXAMPLE_GEN&genOutages=CURRENT" \
  -H "Authorization: Basic <base64-encoded-credentials>" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem
```

**HTTPie:**

```
http GET "https://updown-api.nyiso.com/updown/api/v1/gen-out" \
  "Authorization:Basic <base64-encoded-credentials>" \
  --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
  genName==EXAMPLE_GEN genOutages==CURRENT
```

#### 7.3.4.3 Response

**200 OK — Success:**

| Field | Type | Description |
|---|---|---|
| requestStartTime | String | ISO-8601 timestamp when request processing began |
| requestEndTime | String | ISO-8601 timestamp when request processing completed |
| nyisoRequestId | String | Auto-generated request correlation ID |
| Count | Integer | Number of outage/derating records returned |
| Message | String | Status message (e.g., "Success") |
| generatorOutOfMerits | Array | Array of outage/derating declaration objects |
| generatorOutOfMerits[].generatorDetails | Object | Generator identity and attributes |
| generatorOutOfMerits[].generatorDetails.displayName | String | Full generator display name |
| generatorOutOfMerits[].generatorDetails.ptid | Integer | Generator PTID |
| generatorOutOfMerits[].startDateTime | String | Derating period start (ISO-8601 with offset) |
| generatorOutOfMerits[].endDateTime | String | Derating period end (ISO-8601 with offset) |
| generatorOutOfMerits[].derating | Number | Derating MW value (may be null if not applicable) |
| generatorOutOfMerits[].outOfMeritTypeDescription | String | Description of the out-of-merit action (e.g., GEN REQUEST/MODIFY UOL, GEN REQUEST/MODIFY BOTH, OPS INTERVENE/MODIFY BOTH) |

**400 / 401 / 403 / 500:** See Section 2.6 of this guide.

#### 7.3.4.4 Response Examples

**400 Bad Request — ptid and genName do not match the same Generator:**

```
{
  "requestStartTime": "2026-04-28T14:02:10.879084300Z",
  "requestEndTime": "2026-04-28T14:02:13.249773200Z",
  "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
  "count": 0,
  "message": "Invalid Request",
  "requestParameters": {
    "ptid": 100001,
    "username": "EXAMPLE_USER",
    "genName": "EXAMPLE_GEN_X",
    "genOutages": true
  },
  "errors": [
    "UPD-20004 ERROR: ptid and genName do not correspond to the same Generator. When both are present, t
  hey must match the same Generator"
  ]
}
```


**200 OK — Success (truncated to 3 of 253 records):**


```
{
  "requestStartTime": "2026-04-28T16:00:00.000000000Z",
  "requestEndTime": "2026-04-28T16:00:01.123456789Z",
  "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
  "count": 253,
  "message": "Success",
  "generatorOutOfMerits": [
    {
      "generatorDetails": {
        "displayName": "EXAMPLE_GEN_A",
        "ptid": 100001
      },
      "startDateTime": "2026-04-17T04:00:00-04:00",
      "endDateTime": "2026-04-17T05:00:00-04:00",
      "derating": 180,
      "outOfMeritTypeDescription": "GEN REQUEST/MODIFY UOL"
    },
    {
      "generatorDetails": {
        "displayName": "EXAMPLE_GEN_A",
        "ptid": 100001
      },
      "startDateTime": "2026-04-17T05:00:00-04:00",
      "endDateTime": "2026-04-17T06:00:00-04:00",
      "derating": 220,
      "outOfMeritTypeDescription": "OPS INTERVENE/MODIFY BOTH"
    },
    {
      "generatorDetails": {
        "displayName": "EXAMPLE_GEN_A",
        "ptid": 100001
      },
      "startDateTime": "2026-04-17T10:00:00-04:00",
      "endDateTime": "2026-04-17T11:00:00-04:00",
      "derating": null,
      "outOfMeritTypeDescription": "GEN REQUEST/MODIFY BOTH"
    }
```

```
  ]
}
```

#### 7.3.5 GET /u-comm — Retrieve Unit Commitment Parameters

##### 7.3.5.1 Request

**HTTP Method + Full URL:**

GET https://updown-api.nyiso.com/updown/api/v1/u-comm

**Description:** Retrieves unit commitment parameters for generators, including minimum run time, minimum down time, startup cost curves, and notification time curves.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |

**Query Parameters:**

| Name | Type | Required | Description | Example |
|---|---|---|---|---|
| genName | String | No | Generator name | EXAMPLE_GEN |
| Ptid | Integer | No | Generator PTID | 546231 |

##### 7.3.5.2 Request Examples

**curl:**

```
curl -X GET "https://updown-api.nyiso.com/updown/api/v1/u-comm?ptid=100001" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem
```

**HTTPie:**

```
http GET "https://updown-api.nyiso.com/updown/api/v1/u-comm" \
     "Authorization:Basic <base64-encoded-credentials>" \
     --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
     ptid==100001
```

**Note:** Omitting all query parameters retrieves unit commitment data for all generators in the authenticated user's organization.

#### 7.3.5.3 Response

**200 OK — Success:**

| Field | Type | Description |
|---|---|---|
| requestStartTime | Strig | ISO-8601 timestamp when request processing began |
| requestEndTime | String | ISO-8601 timestamp when request processing completed |
| nyisoRequestId | String | Auto-generated unique request correlation ID (UUID) |
| Count | Integer | Number of records returned |
| Message | String | Status message (e.g., "Success") |
| unitCommitments | Array | Array of unit commitment parameter objects |
| unitCommitments[].displayName | String | Full generator display name |
| unitCommitments[].ptid | Integer | Generator PTID |
| unitCommitments[].unitCommitmentId | Integer | Unique unit commitment record ID |
| unitCommitments[].lastUpdateTime | String | Last modification timestamp (UTC) |
| unitCommitments[].lastUpdateUser | String | Username of last modifier |
| unitCommitments[].minRunTime | Number | Minimum run time (hours) |
| unitCommitments[].minDownTime | Number | Minimum down time (hours) |
| unitCommitments[].maxStopsPerDay | Integer | Maximum stops per operating day |
| unitCommitments[].startUpNotificationTime | Number | Startup notification time (hours) |
| unitCommitments[].startupCostCurve | Array | Array of up to 6 startup cost curve points |
| unitCommitments[].startupCostCurve[].startupCost | Number | Startup cost ($); null for unused points |
| unitCommitments[].startupCostCurve[].hoursOffLine | Number | Hours offline threshold; null for unused points |
| unitCommitments[].notificationTimeCurve | Array | Array of up to 6 notification time curve points |
| unitCommitments[].notificationTimeCurve[].hoursToStart | Number | Hours to start; null for unused points |
| unitCommitments[].notificationTimeCurve[].hoursOffLine | Number | Hours offline threshold; null for unused points |

**400 / 401 / 403 / 500:** See Section 2.6 of this guide.

#### 7.3.5.4 Response Examples

**200 OK — Success (truncated to 2 of 55 unit commitment records):**


```
{
    "requestStartTime": "2026-04-28T17:09:48.196632Z",
    "requestEndTime": "2026-04-28T17:09:48.209633800Z",
    "nyisoRequestId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890",
    "count": 55,
    "message": "Success",
    "unitCommitments": [
     {
      "displayName": "EXAMPLE_GEN_A",
      "ptid": 100001,
      "unitCommitmentId": 104800001,
      "lastUpdateTime": "2026-04-28T18:52:05Z",
      "lastUpdateUser": "JSMITH",
      "minRunTime": 1,
      "minDownTime": 2,
      "maxStopsPerDay": 3,
      "startUpNotificationTime": 0.5,
      "startupCostCurve": [
       { "startupCost": 0, "hoursOffLine": 0 },
       { "startupCost": null, "hoursOffLine": null },
       { "startupCost": null, "hoursOffLine": null },
       { "startupCost": null, "hoursOffLine": null },
       { "startupCost": null, "hoursOffLine": null },
       { "startupCost": null, "hoursOffLine": null }
      ],
      "notificationTimeCurve": [
       { "hoursToStart": null, "hoursOffLine": null },
       { "hoursToStart": null, "hoursOffLine": null },
       { "hoursToStart": null, "hoursOffLine": null },
       { "hoursToStart": null, "hoursOffLine": null },
       { "hoursToStart": null, "hoursOffLine": null },
       { "hoursToStart": null, "hoursOffLine": null }
      ]
     },
     {
      "displayName": "EXAMPLE_GEN_B",
      "ptid": 100002,
      "unitCommitmentId": 118800002,
      "lastUpdateTime": "2024-07-01T19:00:37Z",
      "lastUpdateUser": "JDOE",
      "minRunTime": 0,
      "minDownTime": 0,
      "maxStopsPerDay": 13,
      "startUpNotificationTime": 0,
      "startupCostCurve": [
       { "startupCost": 0, "hoursOffLine": 0 },
       { "startupCost": null, "hoursOffLine": null },
       { "startupCost": null, "hoursOffLine": null },
       { "startupCost": null, "hoursOffLine": null },
       { "startupCost": null, "hoursOffLine": null },
```

```
        { "startupCost": null, "hoursOffLine": null }
      ],
      "notificationTimeCurve": [
        { "hoursToStart": 0, "hoursOffLine": 0 },
        { "hoursToStart": null, "hoursOffLine": null },
        { "hoursToStart": null, "hoursOffLine": null },
        { "hoursToStart": null, "hoursOffLine": null },
        { "hoursToStart": null, "hoursOffLine": null },
        { "hoursToStart": null, "hoursOffLine": null }
      ]
    }
  ]
}
```


#### 7.3.6 POST /gen-bid — Submit Generator Bids

##### 7.3.6.1 Request

**HTTP Method + Full URL:**

POST https://updown-api.nyiso.com/updown/api/v1/gen-bid

**Description:** Submits one or more generator bids. Each bid can span multiple hours (specified by numHours) and includes dispatch curves, reserve costs, regulation data, and optional ESR/BTM/CSR fields. The system validates all bids against extensive business rules before committing.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. HTTP Basic Authentication credentials. |
| Content-Type Header | application/json | Required. Request body format. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |

**Request Body Schema (key fields):**

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| bids[].generatorName | String | Conditional | Generator name (or provide ptid) | "EXAMPLE_GEN" |
| bids[].ptid | Integer | Conditional | Generator PTID | 564321 |

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| bids[].bidDate | String | Yes | Bid date/time (ISO-8601) | "2025-12-11T03:00:00-04:00" |
| bids[].numHours | Integer | Yes | Number of hours (1—24) | 6 |
| bids[].market | String | Yes | Market type (DAM or HAM) | "DAM" |
| bids[].upperOperatingLimit | Number | Yes | Max MW the generator can supply | 100.0 |
| bids[].emergencyUpperOpertingLimit | Number | No | Emergency upper operating limit (>= UOL) | 120.0 |
| bids[].scheduleTypeId | Integer | Yes | Bid schedule type: 3=ISO Committed Flexible, 4=Self Committed Flexible, 5=Self Committed Fixed, 6=ISO Committed Fixed | 4 |
| bids[].startupCost | Number | No | Startup cost dollars (null for self-committed) | 600.25 |
| bids[].fixedMinimumGenerationMw | Number | No | Fixed minimum generation MW | 50.0 |
| bids[].fixedMinimumGenerationCost | Number | No | Fixed minimum generation cost | 10.0 |
| bids[].dispatchMw1 — dispatchMw12 | Number | Conditional | Dispatch curve MW points (1—12) | 10.0 |
| bids[].dispatchDollar1 — dispatchDollar12 | Number | Conditional | Dispatch curve $/MWh points (1—12) | 6.01 |
| bids[].selfCommMw00 | Number | No | Self-commit MW for 00:00 quarter-hour | 50.0 |
| bids[].selfCommMw15 | Number | No | Self-commit MW for 00:15 quarter-hour | 50.0 |
| bids[].selfCommMw30 | Number | No | Self-commit MW for 00:30 quarter-hour | 50.0 |
| bids[].selfCommMw45 | Number | No | Self-commit MW for 00:45 quarter-hour | 50.0 |

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| bids[].fuelTypeId | Integer | No | Fuel type identifier | 2 |
| bids[].fuelPrice | Number | No | Fuel price per unit | 30.1234 |
| bids[].tenMinNonSynchCost | Number | No | 10-min non-synchronous reserve cost | 10.0 |
| bids[].tenMinSpinCost | Number | No | 10-min spinning reserve cost | 11.0 |
| bids[].thirtyMinNonSynchCost | Number | No | 30-min non-synchronous reserve cost | 12.0 |
| bids[].thirtyMinSpinCost | Number | No | 30-min spinning reserve cost | 13.0 |
| bids[].regulationMw | Number | No | Regulation MW | 5.0 |
| bids[].regulationCost | Number | No | Regulation cost per MW | 10.0 |
| bids[].regulationMovementCost | Number | No | egulation movement cost per MW | 15.0 |
| bids[].opportunityCost1 — opportunityCost12 | Number | No | Opportunity cost curve points ($/MWh) | 10.0 |
| bids[].esrBeginningEnergyLevel | Number | No | ESR beginning energy level (MWh, DAM only) | 50.0 |
| bids[].esrLowerStorageLimit | Number | No | ESR lower storage limit (MWh) | 20.0 |
| bids[].esrUpperStorageLimit | Number | No | ESR upper storage limit (MWh) | 100.0 |
| bids[].esrManagementMode | String | No | ESR management mode (I or S) | "S" |
| bids[].esrLowerOperatingLimit | Number | No | ESR lower operating limit (MW) | 25.0 |
| bids[].hostLoadMw | Number | No | BTM:NG host load MW | 20.0 |
| bids[].csrOutageType | String | No | CSR outage type (P, F, or N) | "N" |
| bids[].csrInjectionLimit | Number | No | CSR max injection limit (MW) | 50.0 |
| bids[].csrWithdrawalLimit | Number | No | CSR max withdrawal limit (MW) | -20.0 |

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| bids[].expirationDate | String | No | Expiration date for DAM supplemental commitments | "2024-04-18T23:00:00-04:00" |

**Pattern notes.** The bid array key may be either "bids" or "submitGeneratorBids" — both are accepted. dispatchMw<n> / dispatchDollar<n> fields are numbered 1 through 12 (a 12-point piecewise-linear curve). The same pattern applies to opportunityCost<n> (1—12) and to selfCommMw00, selfCommMw15, selfCommMw30, selfCommMw45 (quarter-hour self-commit values used for Self Committed schedule types).

#### 7.3.6.2 Request Examples

**curl — Non-utility generator, ISO Committed Flexible:**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/gen-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": true
     },
     "bids": [{
       "generatorName": "EXAMPLE_GEN_WINDPWR",
       "bidDate": "2025-12-11T03:00:00-04:00",
       "numHours": 2,
       "market": "DAM",
       "upperOperatingLimit": 6.6,
       "emergencyUpperOperatingLimit": 6.6,
       "startupCost": 600.25,
       "scheduleTypeId": 3,
       "fixedMinimumGenerationMw": 0.0,
       "fixedMinimumGenerationCost": 0.0,
       "dispatchMw1": 1.0,
       "dispatchMw2": 2.0,
       "dispatchMw3": 6.6,
       "dispatchDollar1": 6.01,
       "dispatchDollar2": 30.0,
       "dispatchDollar3": 999.0
     }]
   }'
```

**HTTPie:**

```
http POST "https://updown-api.nyiso.com/updown/api/v1/gen-bid" \
     "Authorization:Basic <base64-encoded-credentials>" \
     "Content-Type:application/json" \
     --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
     < gen-bid-body.json
```

**curl — Multi-bid (Self Committed Flexible + ISO Committed Flexible, DAM):**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/gen-bid" \
      -H "Authorization: Basic <base64-encoded-credentials>" \
      -H "Content-Type: application/json" \
      --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
      -d '{
      "submissionParameters": {
        "doCommit": true,
        "processUnidentifiedBids": true
      },
      "bids": [
        {
          "generatorName": "EXAMPLE_GEN_HYD",
          "bidDate": "2025-12-14T00:00:00-05:00",
          "numHours": 4,
          "market": "DAM",
          "upperOperatingLimit": 2.9,
          "emergencyUpperOperatingLimit": 2.9,
          "startupCost": 100.0,
          "scheduleTypeId": 4,
          "fixedMinimumGenerationMw": 1.6,
          "fixedMinimumGenerationCost": 25.00,
          "dispatchMw1": 1.0,
          "dispatchMw2": 2.0,
          "dispatchMw3": 2.9,
          "dispatchDollar1": 99.0,
          "dispatchDollar2": 199.0,
          "dispatchDollar3": 299.0
        },
        {
          "generatorName": "EXAMPLE_GEN_WINDPWR",
          "bidDate": "2025-12-14T00:00:00-05:00",
          "numHours": 4,
          "market": "DAM",
          "upperOperatingLimit": 6.6,
          "emergencyUpperOperatingLimit": 6.6,
          "startupCost": 600.25,
          "scheduleTypeId": 3,
          "fixedMinimumGenerationMw": 0.0,
          "fixedMinimumGenerationCost": 0.0,
          "dispatchMw1": 1.0,
          "dispatchMw2": 2.0,
          "dispatchMw3": 6.6,
          "dispatchDollar1": 6.01,
          "dispatchDollar2": 30.0,
          "dispatchDollar3": 999.0
        }
      ]
    }'
```

**Self Committed Fixed, 24-hour DAM (scheduleTypeId: 5):**

```
{
      "submissionParameters": {
        "doCommit": true,
```

```
    "processUnidentifiedBids": true
  },
  "submitGeneratorBids": [{
    "generatorName": "EXAMPLE_GEN_C",
    "bidDate": "2026-05-01T00:00:00-04:00",
    "numHours": 24,
    "market": "DAM",
    "expirationDate": "2026-04-30T22:00:00-04:00",
    "upperOperatingLimit": 582.0,
    "emergencyUpperOperatingLimit": 582.7,
    "fuelTypeId": 34,
    "fuelPrice": 12.0,
    "startupCost": 1000.0,
    "scheduleTypeId": 5,
    "selfCommMw00": 200.0,
    "selfCommMw15": 200.0,
    "selfCommMw30": 200.0,
    "selfCommMw45": 200.0,
    "fixedMinimumGenerationMw": 50.0,
    "fixedMinimumGenerationCost": 500.0,
    "dispatchMw1": 400.0,
    "dispatchMw2": 500.0,
    "dispatchMw3": 582.0,
    "dispatchDollar1": 55.0,
    "dispatchDollar2": 66.0,
    "dispatchDollar3": 77.0
  }]
}
```


**Quick-start ISO Committed Flexible with reserve costs:**


```
{
    "submissionParameters": {
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "submitGeneratorBids": [{
      "generatorName": "EXAMPLE_GEN_QS",
      "bidDate": "2026-05-01T00:00:00-04:00",
      "numHours": 10,
      "market": "DAM",
      "upperOperatingLimit": 47.2,
      "emergencyUpperOperatingLimit": 47.2,
      "startupCost": 999.0,
      "scheduleTypeId": 3,
      "fixedMinimumGenerationMw": 40.0,
      "fixedMinimumGenerationCost": 90.0,
      "dispatchMw1": 47.2,
      "dispatchDollar1": 101.0,
      "tenMinSpinCost": 75.0,
      "thirtyMinSpinCost": 75.0
    }]
}
```


**Utility generator, ISO Committed Flexible — full 11-point dispatch curve with reserves:**


```
{
    "submissionParameters": {
```

```
    "doCommit": true,
    "processUnidentifiedBids": true
  },
  "submitGeneratorBids": [{
    "generatorName": "EXAMPLE_UTIL_CC1",
    "bidDate": "2026-05-01T00:00:00-04:00",
    "numHours": 4,
    "market": "DAM",
    "upperOperatingLimit": 335.0,
    "emergencyUpperOperatingLimit": 335.0,
    "startupCost": 10000.0,
    "scheduleTypeId": 3,
    "fixedMinimumGenerationMw": 0.0,
    "fixedMinimumGenerationCost": 0.0,
    "dispatchMw1": 50.0,
    "dispatchMw2": 75.0,
    "dispatchMw3": 100.0,
    "dispatchMw4": 125.0,
    "dispatchMw5": 150.0,
    "dispatchMw6": 175.0,
    "dispatchMw7": 200.0,
    "dispatchMw8": 225.0,
    "dispatchMw9": 250.0,
    "dispatchMw10": 275.0,
    "dispatchMw11": 335.0,
    "dispatchDollar1": 70.0,
    "dispatchDollar2": 105.0,
    "dispatchDollar3": 108.5,
    "dispatchDollar4": 112.0,
    "dispatchDollar5": 115.5,
    "dispatchDollar6": 119.0,
    "dispatchDollar7": 122.5,
    "dispatchDollar8": 126.0,
    "dispatchDollar9": 129.5,
    "dispatchDollar10": 133.0,
    "dispatchDollar11": 140.0,
    "tenMinSpinCost": 75.0,
    "thirtyMinSpinCost": 75.0
  }]
}
```


**Curtailable generator, ISO Committed Fixed (scheduleTypeId: 3) — 24-hour DAM, single-point curve:**


```
{
  "submissionParameters": {
    "doCommit": true,
    "processUnidentifiedBids": true
  },
  "bids": [{
    "generatorName": "EXAMPLE_CURT_A",
    "bidDate": "2026-05-01T00:00:00-04:00",
    "numHours": 24,
    "market": "DAM",
    "upperOperatingLimit": 15.0,
    "emergencyUpperOperatingLimit": 15.0,
    "startupCost": 0.0,
    "scheduleTypeId": 3,
```

```
      "fixedMinimumGenerationMw": 0.0,
      "fixedMinimumGenerationCost": 0.0,
      "dispatchMw1": 15.0,
      "dispatchDollar1": 155.0,
      "tenMinSpinCost": 0.0,
      "thirtyMinSpinCost": 0.0
    }]
  }
```


**Multi-day utility generator, Self Committed Flexible (scheduleTypeId: 4) — with reserves and regulation (two bid rows):**


```
{
  "submissionParameters": {
    "doCommit": true,
    "processUnidentifiedBids": true
  },
  "submitGeneratorBids": [
    {
      "generatorName": "EXAMPLE_PUMP_STOR_4",
      "bidDate": "2026-05-01T15:00:00-04:00",
      "numHours": 12,
      "market": "DAM",
      "upperOperatingLimit": 264.0,
      "emergencyUpperOperatingLimit": 264.0,
      "startupCost": 1000.0,
      "scheduleTypeId": 4,
      "selfCommMw00": 222.0,
      "selfCommMw15": 222.0,
      "selfCommMw30": 222.0,
      "selfCommMw45": 222.0,
      "fixedMinimumGenerationMw": -295.0,
      "fixedMinimumGenerationCost": 500.0,
      "dispatchMw1": 61.0,
      "dispatchMw2": 161.0,
      "dispatchMw3": 261.0,
      "dispatchMw4": 264.0,
      "dispatchDollar1": 55.0,
      "dispatchDollar2": 66.0,
      "dispatchDollar3": 77.0,
      "dispatchDollar4": 88.0,
      "tenMinNonSynchCost": 25.0,
      "tenMinSpinCost": 30.0,
      "thirtyMinSpinCost": 30.0,
      "regulationMw": 2.0,
      "regulationCost": 99.0,
      "regulationMovementCost": 99.0
    },
    {
      "generatorName": "EXAMPLE_PUMP_STOR_4",
      "bidDate": "2026-05-02T03:00:00-04:00",
      "numHours": 12,
      "market": "DAM",
      "upperOperatingLimit": 264.0,
      "emergencyUpperOperatingLimit": 264.0,
      "startupCost": 1000.0,
```

```
      "scheduleTypeId": 4,
      "selfCommMw00": 222.0,
      "selfCommMw15": 222.0,
      "selfCommMw30": 222.0,
      "selfCommMw45": 222.0,
      "fixedMinimumGenerationMw": -295.0,
      "fixedMinimumGenerationCost": 500.0,
      "dispatchMw1": 61.0,
      "dispatchMw2": 161.0,
      "dispatchMw3": 261.0,
      "dispatchMw4": 264.0,
      "dispatchDollar1": 55.0,
      "dispatchDollar2": 66.0,
      "dispatchDollar3": 77.0,
      "dispatchDollar4": 88.0,
      "tenMinNonSynchCost": 25.0,
      "tenMinSpinCost": 30.0,
      "thirtyMinSpinCost": 30.0,
      "regulationMw": 2.0,
      "regulationCost": 99.0,
      "regulationMovementCost": 99.0
    }
   ]
  }
```


**ESR/CSR generator — ISO Committed Flexible with opportunity costs and storage limits:**


```
{
    "submissionParameters": {
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "submitGeneratorBids": [{
      "generatorName": "EXAMPLE_ESR_UNIT",
      "bidDate": "2026-05-01T03:00:00-04:00",
      "numHours": 1,
      "market": "DAM",
      "upperOperatingLimit": 20.0,
      "emergencyUpperOperatingLimit": 20.0,
      "scheduleTypeId": 3,
      "dispatchMw1": -10.0,
      "dispatchMw2": 0.0,
      "dispatchMw3": 20.0,
      "dispatchDollar1": 1.0,
      "dispatchDollar2": 0.0,
      "dispatchDollar3": 25.0,
      "opportunityCost1": 5.0,
      "opportunityCost2": 5.0,
      "opportunityCost3": 5.0,
      "esrBeginningEnergyLevel": 0.0,
      "esrLowerStorageLimit": 0.0,
      "esrUpperStorageLimit": 20.0,
      "esrManagementMode": "I",
      "esrLowerOperatingLimit": -20.0,
      "csrOutageType": "N",
      "csrInjectionLimit": 25.0,
      "csrWithdrawalLimit": -10.0
```

```
    }]
  }
```

**Aggregated ESR member — Self-Managed (esrManagementMode: "S"):**

```
{
    "submissionParameters": {
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "submitGeneratorBids": [{
      "generatorName": "EXAMPLE_AGG_ESR_MEM_1",
      "bidDate": "2026-05-01T01:00:00-04:00",
      "numHours": 6,
      "market": "DAM",
      "upperOperatingLimit": 7.0,
      "emergencyUpperOperatingLimit": 8.0,
      "scheduleTypeId": 3,
      "dispatchMw1": -8.0,
      "dispatchMw2": 0.0,
      "dispatchMw3": 7.0,
      "dispatchMw4": 8.0,
      "dispatchDollar1": -8.0,
      "dispatchDollar2": 0.0,
      "dispatchDollar3": 7.0,
      "dispatchDollar4": 8.0,
      "opportunityCost1": 6.64,
      "opportunityCost2": 6.64,
      "opportunityCost3": 6.64,
      "opportunityCost4": 6.64,
      "esrLowerStorageLimit": 0.1,
      "esrUpperStorageLimit": 8.0,
      "esrManagementMode": "S",
      "esrLowerOperatingLimit": -8.0
    }]
  }
```

**BTM:NG generator — Self Committed Fixed with hostLoadMw:**

```
{
    "submissionParameters": {
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "submitGeneratorBids": [{
      "generatorName": "EXAMPLE_BTM_GEN",
      "bidDate": "2026-05-01T00:00:00-04:00",
      "numHours": 24,
      "market": "DAM",
      "upperOperatingLimit": 45.0,
      "emergencyUpperOperatingLimit": 46.0,
      "scheduleTypeId": 5,
      "selfCommMw00": 4.0,
      "selfCommMw15": 4.0,
      "selfCommMw30": 4.0,
      "selfCommMw45": 4.0,
      "dispatchMw1": 45.0,
      "dispatchMw2": 46.0,
```

```
      "dispatchDollar1": -99.0,
      "dispatchDollar2": 1.0,
      "hostLoadMw": 1.0
    }]
  }
```


**DSASP generator — ISO Committed Flexible with negative dispatch MW and regulation:**


```
{
    "submissionParameters": {
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "submitGeneratorBids": [{
      "generatorName": "EXAMPLE_DSASP_GEN",
      "bidDate": "2026-05-01T00:00:00-04:00",
      "numHours": 24,
      "market": "DAM",
      "upperOperatingLimit": 2.0,
      "emergencyUpperOperatingLimit": 2.0,
      "startupCost": 0.0,
      "scheduleTypeId": 3,
      "fixedMinimumGenerationMw": -2.0,
      "fixedMinimumGenerationCost": 0.0,
      "dispatchMw1": -2.0,
      "dispatchMw2": 0.0,
      "dispatchMw3": 1.0,
      "dispatchMw4": 2.0,
      "dispatchDollar1": -750.0,
      "dispatchDollar2": -76.0,
      "dispatchDollar3": 76.0,
      "dispatchDollar4": 77.0,
      "regulationMw": 19.0,
      "regulationCost": 0.01,
      "regulationMovementCost": 0.01
    }]
  }
```


**30-min start generator, HAM multi-hour Self Committed Flexible (truncated to 2 of 8 hourly rows):**


```
{
    "submissionParameters": {
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "submitGeneratorBids": [
      {
        "generatorName": "EXAMPLE_30MIN_GT1",
        "bidDate": "2026-05-01T17:00:00-04:00",
        "numHours": 2,
        "market": "HAM",
        "upperOperatingLimit": 40.0,
        "emergencyUpperOperatingLimit": 40.0,
        "startupCost": 0.0,
        "scheduleTypeId": 4,
        "selfCommMw00": 30.0,
        "selfCommMw15": 30.0,
        "selfCommMw30": 30.0,
```

```
      "selfCommMw45": 30.0,
      "fixedMinimumGenerationMw": 0.0,
      "fixedMinimumGenerationCost": 0.0,
      "dispatchMw1": 40.0,
      "dispatchDollar1": 66.0,
      "thirtyMinNonSynchCost": 0.0
    },
    {
      "generatorName": "EXAMPLE_30MIN_GT1",
      "bidDate": "2026-05-01T18:00:00-04:00",
      "numHours": 2,
      "market": "HAM",
      "upperOperatingLimit": 40.0,
      "emergencyUpperOperatingLimit": 40.0,
      "startupCost": 0.0,
      "scheduleTypeId": 4,
      "selfCommMw00": 30.0,
      "selfCommMw15": 30.0,
      "selfCommMw30": 30.0,
      "selfCommMw45": 30.0,
      "fixedMinimumGenerationMw": 0.0,
      "fixedMinimumGenerationCost": 0.0,
      "dispatchMw1": 40.0,
      "dispatchDollar1": 66.0,
      "thirtyMinNonSynchCost": 0.0
    }
  ]
}
```


**Note:** For HAM bids, each hourly block is submitted as a separate bid row with a distinct bidDate at the top of each hour. The numHours indicates bid duration from each starting hour. In practice, the full submission would include one row per hour for the desired HAM window.

#### 7.3.6.3 Response

**200 OK — Success (submission processed):**

| Field | Type | Description |
|---|---|---|
| requestTimestamp | String | Timestamp when the request was received (yyyy-MM-dd HH:mm:ss z) |
| requestStartTime | String | ISO-8601 UTC timestamp when request processing began |
| submissionParameters | Object | Echo of the submission parameters sent in the request |
| submissionParameters.doCommit | Boolean | Whether the submission was committed |
| Accepted | Array | Array of bid objects that passed validation and were accepted by the market |
| accepted[].generator | Object | Generator identity |
| accepted[].generator.displayName | String | Generator display name |

| Field | Type | Description |
|---|---|---|
| accepted[].generator.ptid | Integer | Generator PTID |
| accepted[].bidDate | String | Bid hour in UTC (Z suffix) |
| accepted[].generatorBidMarket | String | Market type (DAM or HAM) |
| accepted[].bidStatus | String | Bid status (e.g., VALIDATION_PASSED) |
| accepted[].bidId | Integer | System-assigned bid identifier |
| accepted[].upperOperatingLimit | Number | Upper operating limit (MW) |
| accepted[].emergencyUpperOperatingLimit | Number | Emergency upper operating limit (MW) |
| accepted[].startupCost | Number | Startup cost ($) |
| accepted[].scheduleType | String | Schedule type (e.g., ISO_COMMITTED_FLEXIBLE, SELF_COMMITTED_FLEXIBLE, SELF_COMMITTED_FIXED) |
| accepted[].fixedMinimumGenerationMw | Number | Fixed minimum generation MW |
| accepted[].fixedMinimumGenerationCost | Number | Fixed minimum generation cost ($) |
| accepted[].selfCommitmentCurve | Object | Self-commitment MW values (when schedule type is self-committed) |
| accepted[].dispatchCurve | Object | Dispatch MW/Dollar curve points |
| accepted[].tenMinSpinCost | Number | 10-minute spinning reserve cost |
| accepted[].thirtyMinSpinCost | Number | 30-minute spinning reserve cost |
| accepted[].fuelType | Object | Fuel type information (empty {} if not applicable) |
| accepted[].opportunityCostCurve | Object | Opportunity cost curve points (empty {} if not applicable) |
| accepted[].esrBidFields | Object | ESR-specific fields (empty {} if not applicable) |
| accepted[].btmBidFields | Object | BTM-specific fields (empty {} if not applicable) |
| accepted[].csrBidFields | Object | CSR-specific fields (empty {} if not applicable) |
| Rejected | Array | Array of bid objects that passed validation but were rejected by market business rules |
| rejected[].generator | Object | Generator identity (same structure as accepted[]) |
| rejected[].bidValidationMessages | Array | Array of rejection reason messages (if present) |
| failedValidation | Array | Array of bid objects that failed field-level validation |
| failedValidation[].bidValidationMessages | Array | Array of { "message": "..." } objects describing each validation error |
| Errors | Array | Top-level error messages (e.g., marketplace rule violations) |

| Field | Type | Description |
|---|---|---|
| Count | Integer | Number of records in the primary result array |

**400 / 401 / 403 / 500:** See Section 2.6 of this guide.

#### 7.3.6.4 Response Examples

**200 OK — Bid accepted (truncated to 1 of 4 hourly bids):**


```
{
    "requestTimestamp": "2026-05-01 12:03:20 EDT",
    "submissionParameters": {
      "doCommit": true
    },
    "requestStartTime": "2026-05-01T16:03:20.252751139Z",
    "count": 0,
    "accepted": [
      {
        "generator": {
          "displayName": "EXAMPLE_UTIL_CC1",
          "ptid": 100001
        },
        "bidDate": "2026-05-02T04:00Z",
        "generatorBidMarket": "DAM",
        "bidStatus": "VALIDATION_PASSED",
        "upperOperatingLimit": 335.0,
        "emergencyUpperOperatingLimit": 335.0,
        "fuelType": {},
        "startupCost": 10000.0,
        "scheduleType": "ISO_COMMITTED_FLEXIBLE",
        "selfCommitmentCurve": {},
        "fixedMinimumGenerationMw": 0.0,
        "fixedMinimumGenerationCost": 0.0,
        "dispatchCurve": {
          "dispatchMw1": 50.0,
          "dispatchDollar1": 70.0,
          "dispatchMw2": 75.0,
          "dispatchDollar2": 105.0,
          "dispatchMw3": 100.0,
          "dispatchDollar3": 108.5,
          "dispatchMw4": 125.0,
          "dispatchDollar4": 112.0,
          "dispatchMw5": 150.0,
          "dispatchDollar5": 115.5,
          "dispatchMw6": 175.0,
          "dispatchDollar6": 119.0,
          "dispatchMw7": 200.0,
          "dispatchDollar7": 122.5,
          "dispatchMw8": 225.0,
          "dispatchDollar8": 126.0,
          "dispatchMw9": 250.0,
          "dispatchDollar9": 129.5,
```

```
        "dispatchMw10": 275.0,
        "dispatchDollar10": 133.0,
        "dispatchMw11": 335.0,
        "dispatchDollar11": 140.0
      },
      "tenMinSpinCost": 75.0,
      "thirtyMinSpinCost": 75.0,
      "bidId": 1255821211,
      "opportunityCostCurve": {},
      "esrBidFields": {},
      "btmBidFields": {},
      "csrBidFields": {}
    }
  ]
}
```


**200 OK — Bid failed validation (missing required reserve costs; truncated to 1 of 5 hourly bids):**


```
{
    "requestTimestamp": "2026-05-01 13:47:04 EDT",
    "submissionParameters": {
      "doCommit": true
    },
    "requestStartTime": "2026-05-01T17:47:04.004559940Z",
    "count": 0,
    "accepted": [
      {
        "generator": {
          "displayName": "EXAMPLE_GEN_WINDPWR",
          "ptid": 100002
        },
        "bidDate": "2026-05-02T04:00Z",
        "generatorBidMarket": "DAM",
        "bidStatus": "VALIDATION_FAILED",
        "bidValidationMessages": [
          {
            "message": "30min-spin $/MW is required and must be >= 0."
          },
          {
            "message": "10min-spin $/MW is required and must be >= 0."
          }
        ],
        "upperOperatingLimit": 15.8,
        "emergencyUpperOperatingLimit": 15.8,
        "fuelType": {},
        "startupCost": 500.0,
        "scheduleType": "ISO_COMMITTED_FLEXIBLE",
        "selfCommitmentCurve": {},
        "fixedMinimumGenerationMw": 1.0,
        "fixedMinimumGenerationCost": 763.96,
        "dispatchCurve": {
          "dispatchMw1": 1.0,
          "dispatchDollar1": 0.01,
          "dispatchMw2": 11.0,
          "dispatchDollar2": 71.52,
          "dispatchMw3": 12.3,
```

```
        "dispatchDollar3": 80.02,
        "dispatchMw4": 14.1,
        "dispatchDollar4": 112.0,
        "dispatchMw5": 15.8,
        "dispatchDollar5": 115.5
      },
      "bidId": 1256682979,
      "opportunityCostCurve": {},
      "esrBidFields": {},
      "btmBidFields": {},
      "csrBidFields": {}
    }
  ]
}
```


**200 OK — Bid rejected by market business rule (invalid host load MW):**


```
{
    "requestTimestamp": "2026-05-01 17:10:07 EDT",
    "submissionParameters": {
      "doCommit": true
    },
    "errors": [
      "CBM-40204 ERROR: Invalid Host Load MW. Value cannot be greater than 999 or less than 0. Generator:
    EXAMPLE_BTM_GEN, ptid: 100003, Start Time: 2026-05-02T01:00-04:00"
    ],
    "requestStartTime": "2026-05-01T21:10:07.808533948Z",
    "count": 1,
    "rejected": [
      {
        "generator": {
          "displayName": "EXAMPLE_BTM_GEN",
          "ptid": 100003
        },
        "bidDate": "2026-05-02T05:00Z",
        "generatorBidMarket": "HAM",
        "upperOperatingLimit": 79.0,
        "emergencyUpperOperatingLimit": 80.0,
        "fuelType": {},
        "scheduleType": "SELF_COMMITTED_FLEXIBLE",
        "selfCommitmentCurve": {
          "selfCommitMw00": 4.0,
          "selfCommitMw15": 4.0,
          "selfCommitMw30": 4.0,
          "selfCommitMw45": 4.0
        },
        "dispatchCurve": {
          "dispatchMw1": 80.0,
          "dispatchDollar1": 1.0
        },
        "opportunityCostCurve": {},
        "esrBidFields": {},
        "btmBidFields": {
          "hostLoadMw": 1000.0
        },
        "csrBidFields": {}
```

```
    }
  ]
}
```

#### 7.3.7 POST /delete-gen-bid — Delete Generator Bids

##### 7.3.7.1 Request

**HTTP Method + Full URL:**

POST https://updown-api.nyiso.com/updown/api/v1/delete-gen-bid

**Description:** Deletes one or more previously submitted generator bids. Bids can be identified either by bidId alone, or by a combination of generatorName (or ptid) with bidDate and market. When using generatorName/ptid + bidDate + market, all three fields must be provided together.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username:password)> | Required. |
| Content-Type Header | application/json | Required |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate (see §2.4). |

**Request Body Schema:**

**Array name:** The canonical request-body array for this endpoint is bids; deleteGeneratorBids is also accepted on input as an alias. Either name works — examples below use deleteGeneratorBids.

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| submissionParameters.doCommit | Boolean | Yes | Commit deletion | true |
| submissionParameters.processUnidentifiedBids | Boolean | No | When true, bids for units not in the user's org are still processed | true |
| deleteGeneratorBids (alias: bids) | Array | Yes | Array of bid delete objects | See below |

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| deleteGeneratorBids[].bidId | Integer | Conditional | Bid ID to delete (sufficient alone) | 1174702467 |
| deleteGeneratorBids[].generatorName | String | Conditional | Generator name (required with bidDate + market if no bidId) | "EXAMPLE_GEN_GT1" |
| deleteGeneratorBids[].ptid | Integer | Conditional | Generator PTID (alternative to generatorName; up to 6 digits) | 564321 |
| deleteGeneratorBids[].bidDate | String | Conditional | Bid date ISO-8601 with offset (required if no bidId) | "2026-05-01T00:0004:00" |
| deleteGeneratorBids[].market | String | Conditional | Market type (required if no bidId); must be DAM or HAM (case-insensitive) | "DAM" |

**Note:** Either provide bidId alone or provide generatorName (or ptid) + bidDate + market together. When both generatorName and ptid are specified, they must correspond to the same generator.

#### 7.3.7.2 Request Examples

**curl — Delete by bidId:**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/delete-gen-bid" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": true
     },
     "deleteGeneratorBids": [{
       "bidId": 1174702467
     }]
    }'
```

**HTTPie:**

```
http POST "https://updown-api.nyiso.com/updown/api/v1/delete-gen-bid" \
     "Authorization:Basic <base64-encoded-credentials>" \
```

```
  "Content-Type:application/json" \
  --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
  < delete-gen-bid-body.json
```

**curl — Delete by generatorName + bidDate + market:**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/delete-gen-bid" \
  -H "Authorization: Basic <base64-encoded-credentials>" \
  -H "Content-Type: application/json" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
  -d '{
  "submissionParameters": {
    "doCommit": true,
    "processUnidentifiedBids": true
  },
  "deleteGeneratorBids": [{
    "generatorName": "EXAMPLE_GEN_GT1",
    "bidDate": "2026-05-01T00:00-04:00",
    "market": "DAM"
  }]
}'
```

**curl — Multi-bid (mix of bidId and generatorName lookup):**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/delete-gen-bid" \
  -H "Authorization: Basic <base64-encoded-credentials>" \
  -H "Content-Type: application/json" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
  -d '{
  "submissionParameters": {
    "doCommit": true,
    "processUnidentifiedBids": true
  },
  "deleteGeneratorBids": [
    { "bidId": 1174702467 },
    { "generatorName": "EXAMPLE_GEN_GT1", "bidDate": "2026-05-01T00:00-04:00", "market": "DAM" },
    { "generatorName": "EXAMPLE_GEN_GT1", "bidDate": "2026-05-01T01:00-04:00", "market": "DAM" }
  ]
}'
```

#### 7.3.7.3 Response

**200 OK — Success (submission processed):**

Same response structure as other POST delete endpoints. The deleted array is populated on success and the rejected array on failure.

| Field | Type | Description |
|---|---|---|
| requestTimestamp | String | Timestamp when the request was received (yyyy-MM-dd HH:mm:ss z) |
| requestStartTime | String | ISO-8601 UTC timestamp when request processing began |
| submissionParameters | Object | Echo of the submission parameters |

| Field | Type | Description |
|---|---|---|
| Count | Integer | Number of records in the primary result array |
| Deleted | Array | Array of generator bid objects that were successfully deleted |
| deleted[].bidId | Integer | System-assigned bid identifier of the deleted bid |
| deleted[].generator | Object | Generator identity |
| deleted[].generator.displayName | String | Generator display name |
| deleted[].generator.ptid | Integer | Generator PTID |
| deleted[].bidDate | String | Bid hour in UTC (Z suffix) |
| deleted[].generatorBidMarket | String | Market type (DAM or HAM) |
| deleted[].bidStatus | String | Bid status (e.g., VALIDATION_PASSED) |
| Rejected | Array | Array of bid objects that could not be deleted (e.g., bid not found) |
| rejected[].bidId | Integer | Bid ID that was not found or could not be deleted |
| Errors | Array | Top-level error messages (e.g., marketplace rule violations) |

**400 / 401 / 403 / 500:** See §2.6.

#### 7.3.7.4 Response Examples

**200 OK — Bid not found (rejected):**


```
{
    "requestTimestamp": "2026-05-01 13:46:08 EDT",
    "submissionParameters": {
      "requestType": "delete-gen-bid",
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "errors": [
      "CBM-40093 ERROR: Bid not found. Cannot delete. (bidId: 1000000099)"
    ],
    "requestStartTime": "2026-05-01T17:46:08.787864300Z",
    "count": 1,
    "rejected": [
      {
        "bidId": 1000000099
      }
    ]
  }
```


### 7.3.8 POST /uc-data — Submit Unit Commitment Data

#### 7.3.8.1 Request

**HTTP Method + Full URL:**

POST https://updown-api.nyiso.com/updown/api/v1/uc-data

**Description:** Submits or updates unit commitment parameters for generators, including minimum run time, minimum down time, maximum stops per day, startup notification time, startup cost curves (up to 6 points), and notification time curves (up to 6 points). Each submission targets a single generator and replaces the existing unit commitment record for that generator.

**Required Authentication:**

| Requirement | Value / Format | Description |
|---|---|---|
| Authorization Header | Basic <base64(username: password)> | Required. HTTP Basic Authentication credentials. |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see §2.4). |
| Content-Type | application/json | Required for all POST requests. |

**Request Body:**

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| submissionParameters.doCommit | Boolean | Yes | true to commit; false for validation-only dry run | true |
| submissionParameters.processUnidentifiedBids | Boolean | No | When true, bids for units not in the user's org are still processed | true |
| unitCommitmentData | Array | Yes | Array of unit commitment objects (alias for bids) | |
| unitCommitmentData[].generatorName | String | Yes | Generator display name | "EXAMPLE_GEN_GT3" |

| Field | Type | Required | Description | Example |
|---|---|---|---|---|
| unitCommitmentData[].ptid | Integer | No | Generator PTID (alternative to generatorName) | 100001 |
| unitCommitmentData[].minRunTime | Number | No | Minimum run time in hours | 1.0 |
| unitCommitmentData[].minDownTime | Number | No | Minimum down time in hours | 2.0 |
| unitCommitmentData[].maxStopsPerDay | Integer | No | Maximum stops per operating day | 3 |
| unitCommitmentData[].startUpNotificationTime | Number | No | Startup notification time in hours | 0.5 |
| unitCommitmentData[].startUpBidCost1 — startUpBidCost6 | Number | No | Startup cost curve points 1–6 ($) | 1100.0 |
| unitCommitmentData[].startUpBidTime1 — startUpBidTime6 | Number | No | Startup cost curve hours-offline points 1–6 | 55.0 |
| unitCommitmentData[].notificationHoursToStart1 — notificationHoursToStart6 | Number | No | Notification time curve hours-to-start points 1–6 | 0.12 |
| unitCommitmentData[].notificationHoursOffline1 — notificationHoursOffline6 | Number | No | Notification time curve hours-offline points 1–6 | 85.0 |

**Note:** The request array key may be either "unitCommitmentData" or "bids" — both are accepted (see Section 2.5.5 of this guide).

#### 7.3.8.2 Request Examples

**curl — Single generator, minimal fields:**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/uc-data" \
     -H "Authorization: Basic <base64-encoded-credentials>" \
     -H "Content-Type: application/json" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -d '{
     "submissionParameters": {
       "doCommit": true,
       "processUnidentifiedBids": true
     },
```

```
    "unitCommitmentData": [{
      "generatorName": "EXAMPLE_GEN_DER",
      "minRunTime": 0.0,
      "minDownTime": 0.0,
      "maxStopsPerDay": 13,
      "startUpNotificationTime": 0.0,
      "startUpBidTime1": 0.0,
      "startUpBidCost1": 0.0,
      "notificationHoursToStart1": 0.0,
      "notificationHoursOffline1": 0.0
    }]
  }'
```

**HTTPie:**

```
http POST "https://updown-api.nyiso.com/updown/api/v1/uc-data" \
    "Authorization:Basic <base64-encoded-credentials>" \
    "Content-Type:application/json" \
    --cert /path/to/naesb-cert.pem --cert-key /path/to/naesb-key.pem \
    < uc-data-body.json
```

**curl — Full startup cost curve and notification time curve (two generators):**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/uc-data" \
    -H "Authorization: Basic <base64-encoded-credentials>" \
    -H "Content-Type: application/json" \
    --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
    -d '{
    "submissionParameters": {
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "unitCommitmentData": [
      {
        "generatorName": "EXAMPLE_GEN_GT3",
        "minRunTime": 1.0,
        "minDownTime": 2.0,
        "maxStopsPerDay": 3,
        "startUpNotificationTime": 0.5,
        "startUpBidCost1": 1100.0,
        "startUpBidTime1": 55.0,
        "startUpBidCost2": 12000.0,
        "startUpBidTime2": 65.0,
        "startUpBidCost3": 13000.0,
        "startUpBidTime3": 78.0,
        "notificationHoursToStart1": 0.12,
        "notificationHoursOffline1": 85.0,
        "notificationHoursToStart2": 95.0,
        "notificationHoursOffline2": 96.0
      },
      {
        "generatorName": "EXAMPLE_GEN_CC1",
        "minRunTime": 4.0,
        "minDownTime": 8.0,
        "maxStopsPerDay": 2,
        "startUpNotificationTime": 2.0,
        "startUpBidCost1": 5000.0,
```

```
      "startUpBidTime1": 10.0,
      "notificationHoursToStart1": 2.0,
      "notificationHoursOffline1": 10.0
    }
  ]
}'
```

#### 7.3.8.3 Response

**200 OK — Success (submission processed):**

| Field | Type | Description |
|---|---|---|
| requestTimestamp | String | Timestamp when the request was received (yyyy-MM-dd HH:mm:ss z) |
| requestStartTime | String | ISO-8601 UTC timestamp when request processing began |
| submissionParameters | Object | Echo of the submission parameters sent in the request |
| submissionParameters.doCommit | Boolean | Whether the submission was committed |
| submissionParameters.processUnidentifiedBids | Boolean | Whether unidentified bids were processed |
| Count | Integer | Number of records in the primary result array |
| Updated | Array | Array of unit commitment records that were successfully updated |
| updated[].displayName | String | Generator display name |
| updated[].ptid | Integer | Generator PTID |
| updated[].unitCommitmentId | Integer | Unique unit commitment record ID |
| updated[].lastUpdateTime | String | Last modification timestamp (UTC) |
| updated[].lastUpdateUser | String | Username of last modifier |
| updated[].minRunTime | Number | Minimum run time (hours) |
| updated[].minDownTime | Number | Minimum down time (hours) |
| updated[].maxStopsPerDay | Integer | Maximum stops per operating day |
| updated[].startUpNotificationTime | Number | Startup notification time (hours) |
| updated[].startupCostCurve | Array | Array of 6 startup cost curve points |
| updated[].startupCostCurve[].startupCost | Number | Startup cost ($); null for unused points |
| updated[].startupCostCurve[].hoursOffLine | Number | Hours offline threshold; null for unused points |
| updated[].notificationTimeCurve | Array | Array of 6 notification time curve points |
| updated[].notificationTimeCurve[].hoursToStart | Number | Hours to start; null for unused points |

| Field | Type | Description |
|---|---|---|
| updated[].notificationTimeCurve[].hoursOffLine | Number | Hours offline threshold; null for unused points |
| Accepted | Array | Array of unit commitment records that were newly created (first-time submission) |
| Rejected | Array | Array of records rejected by marketplace business rules |
| failedValidation | Array | Array of records that failed field-level validation |
| Errors | Array | Top-level error messages |

**400 / 401 / 403 / 500:** See Section 2.6 of this guide.

#### 7.3.8.4 Response Examples

**200 OK — Unit commitment updated successfully:**


```
{
    "requestTimestamp": "2026-05-01 14:52:10 EDT",
    "submissionParameters": {
      "requestType": "uc-data",
      "doCommit": true,
      "processUnidentifiedBids": true
    },
    "requestStartTime": "2026-05-01T18:52:10.956976900Z",
    "count": 0,
    "updated": [
      {
        "displayName": "EXAMPLE_GEN_GT3",
        "ptid": 100001,
        "unitCommitmentId": 1299735753,
        "lastUpdateTime": "2026-05-01T18:52:05Z",
        "lastUpdateUser": "EXAMPLE_USER",
        "minRunTime": 1,
        "minDownTime": 2,
        "maxStopsPerDay": 3,
        "startUpNotificationTime": 0.5,
        "startupCostCurve": [
          {
            "startupCost": 0,
            "hoursOffLine": 0
          },
          {
            "startupCost": null,
            "hoursOffLine": null
          },
          {
            "startupCost": null,
            "hoursOffLine": null
          },
```

```
        {
          "startupCost": null,
          "hoursOffLine": null
        },
        {
          "startupCost": null,
          "hoursOffLine": null
        },
        {
          "startupCost": null,
          "hoursOffLine": null
        }
      ],
      "notificationTimeCurve": [
        {
          "hoursToStart": null,
          "hoursOffLine": null
        },
        {
          "hoursToStart": null,
          "hoursOffLine": null
        },
        {
          "hoursToStart": null,
          "hoursOffLine": null
        },
        {
          "hoursToStart": null,
          "hoursOffLine": null
        },
        {
          "hoursToStart": null,
          "hoursOffLine": null
        },
        {
          "hoursToStart": null,
          "hoursOffLine": null
        },
        {
          "hoursToStart": null,
          "hoursOffLine": null
        }
      ]
    }
  ]
}
```


## 7.4 CSV Endpoint

### 7.4.1 POST /csv — Legacy CSV Upload/Download

The /csv endpoint provides **full backward compatibility** with the legacy MIS Upload/Download Batch Procedures described in **Section 8 of the MPUG**. It is a single POST endpoint that accepts **both upload and download** CSV templates. The BUD system parses the header rows to determine the operation, routes the request to the appropriate internal processing logic, and returns the response as CSV text.

**All legacy MPUG Section 8 rules, field ordering, data dictionaries, and validation rules apply unchanged.** The only differences from the legacy MIS system are:

1. **Authentication** — The BUD system uses HTTP Basic Auth (the Authorization header) instead of the USERID/PASSWORD rows embedded in the CSV. If USERID and PASSWORD rows are present in the CSV, their values are **ignored** by the BUD system. They may be included for backward compatibility with existing CSV templates, but they are **not required**.
2. **Transport** — Requests are sent as POST to https://updown-api.nyiso.com/updown/api/v1/csv using HTTPS, rather than the legacy MIS batch upload portal.
3. **DATA_ROWS (uploads)** — Present for template compatibility; the system processes all data rows in the body regardless of this value.

#### 7.4.1.1 Request

**HTTP Method:** POST **URL:** https://updown-api.nyiso.com/updown/api/v1/csv

**Headers:**

| Header | Value | Required |
|---|---|---|
| Content-Type | text/csv, text/plain, or application/octet-stream | Yes |
| Accept | text/csv or application/json | Optional (defaults to CSV) |
| Authorization | Basic <base64(username:password)> | Yes |
| TLS Client Certificate | NAESB-compliant .pem/.pfx certificate | Required. Valid NAESB digital certificate linked to the same MIS user account (see Section 2.4 of this guide). |

**Request Body**: Raw CSV text conforming to the legacy MPUG Section 8 template format.

The endpoint handles two categories of CSV operations:

**Upload Operations (BID_TYPE header):** Submit, delete, or confirm bids. The request body begins with a BID_TYPE=<operation>& header row.

| BID_TYPE Value | Operation | Internal Route | |
|---|---|---|---|
| LOAD_BID | Submit load bids | → POST /load-bid | |
| DELETE_LOAD_BID | Delete load bids | → POST /delete-load-bid | |
| GEN_BID | Submit generator bids | → POST /gen-bid | |
| DELETE_GEN_BID | Delete generator bids | → POST /delete-gen-bid | |

| BID_TYPE Value | Operation | Internal Route | |
|---|---|---|---|
| UC_DATA | Submit unit commitment data | → POST /uc-data | |
| TRAN_BID | Submit transaction bids | → POST /tran-bid | |
| DELETE_TRAN_BID | Delete transaction bids | → POST /delete-tran-bid | |
| CONFIRM_TRAN_BID | Confirm transaction bids | → POST /confirm-tran-bid | |

Upload template header format (each line terminated by & and newline):

BID_TYPE=<operation>&
USERID=<ignored>&
PASSWORD=<ignored>&
DATA_ROWS=<number>&
<comma-separated data row 1>
<comma-separated data row 2>
…

Additional upload header rows recognized by the BUD system:

| Header Row | Applies To | Description |
|---|---|---|
| PROCESS_UNIDENTIFIED_BIDS=Y\|N | DELETE_LOAD_BID, DELETE_GEN_BID, DELETE_TRAN_BID, CONFIRM_TRAN_BID | Controls processing of bids that cannot be matched to an identified unit. Same behavior as legacy MIS. |

**Download Operations (QUERY_TYPE header):** Retrieve bids, schedules, details, and reference data. The request body begins with a QUERY_TYPE=<operation>& header row.

| QUERY_TYPE Value | Operation | Internal Route | |
|---|---|---|---|
| LOAD_DETAIL | Retrieve load unit details | → GET /load-detail | |
| LOAD_SCH | Retrieve load bid schedules | → GET /load-sch | |
| GEN_DETAIL | Retrieve generator unit details | → GET /gen-detail | |
| GEN_SCH | Retrieve generator bids and schedules | → GET /gen-sch | |
| GEN_RTD | Retrieve generator RTD schedules | → GET /gen-rtd | |

| QUERY_TYPE Value | Operation | Internal Route | |
|---|---|---|---|
| GEN_OUT | Retrieve generator outage declarations | → GET /gen-out | |
| U_COMM | Retrieve unit commitment parameters | → GET /u-comm | |
| TRAN_SCH | Retrieve transaction bid schedules | → GET /tran-sch | |
| TRAN_CONTRACT | Retrieve transaction contracts | → GET /tran-contract | |

Download template header format (each line terminated by & and newline):

QUERY_TYPE=<operation>&
USERID=<ignored>&
PASSWORD=<ignored>&
<filter parameter 1>=<value>&
<filter parameter 2>=<value>&
...

Download filter parameters by QUERY_TYPE:

| QUERY_TYPE | Supported Filter Parameters |
|---|---|
| LOAD_DETAIL | LOAD_AREA_BUS (name or PTID) |
| LOAD_SCH | DATE, LOAD_AREA_BUS, STATUS, MODIFIED_DATE, NUM_HOURS |
| GEN_SCH | MARKET_TYPE, DATE, GENERATOR (name or PTID), STATUS, NUM_HOURS, MODIFIED_DATE, CURRENT_ADVISORY_SCHEDULES_FLAG |
| GEN_RTD | DATE, GENERATOR (name or PTID), NUM_HOURS, MODIFIED_DATE, CURRENT_ADVISORY_SCHEDULES_FLAG |
| GEN_DETAIL | GENERATOR (name or PTID) |
| GEN_OUT | GENERATOR (name or PTID), OUTAGES |
| U_COMM | GENERATOR (name or PTID) |
| TRAN_SCH | MARKET_TYPE, DATE, TRANSACTION_ID, SOURCE, SINK, STATUS, USER_REFERENCE, NUM_HOURS, MODIFIED_DATE |
| TRAN_CONTRACT | TRANSACTION_ID, SOURCE, SINK, USER_REFERENCE, NUM_ROWS, SOURCE_ENERGY_ORG_ID, SINK_ENERGY_ORG_ID |

**Identifier resolution:** For GENERATOR, LOAD_AREA_BUS, SOURCE, and SINK parameters, the BUD system accepts either the unit name (string) or the PTID (integer). If the value parses as an integer, it is treated as a PTID; otherwise it is treated as a name. This matches legacy MIS behavior.

**Date formats:** Date values use the legacy MM/dd/yyyy HH:mm format. On 25-hour fall-back DST days, the repeated 2 AM hour is expressed as 25:00 (e.g., 11/03/2024 25:00). See MPUG Section 8 for full details.

For complete field-level data dictionaries, submission column ordering, and response column ordering for each template type, refer to **MPUG Section 8** (PDF link).

#### 7.4.1.2 Request Examples

**Upload — Submit Generator Bids (GEN_BID)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -H "Content-Type: text/csv" \
     -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
     --data-binary @- <<'EOF'
    BID_TYPE=GEN_BID&
    USERID=<your-username>&
    PASSWORD=<your-password>&
    DATA_ROWS=2&
    EXAMPLE_GEN_GT1,05/01/2026 00:00,1,DAM,,45.1,45.1,,,999,3,,,,,0,0,45.1,,,,,,,,,,66,,,,,,,,,,,0,,0,,,,
    EXAMPLE_GEN_GT1,05/01/2026 01:00,1,DAM,,45.1,45.1,,,999,3,,,,,0,0,45.1,,,,,,,,,,66,,,,,,,,,,,0,,0,,,,
    EOF
```

**Upload — Delete Generator Bids (DELETE_GEN_BID)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -H "Content-Type: text/csv" \
     -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
     --data-binary @- <<'EOF'
    BID_TYPE=DELETE_GEN_BID&
    USERID=<your-username>&
    PASSWORD=<your-password>&
    DATA_ROWS=1&
    PROCESS_UNIDENTIFIED_BIDS=N&
    ,EXAMPLE_GEN_GT1,05/01/2026 00:00,DAM
    EOF
```

**Upload — Submit Load Bids (LOAD_BID)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
     --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
     -H "Content-Type: text/csv" \
     -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
     --data-binary @- <<'EOF'
    BID_TYPE=LOAD_BID&
    USERID=<your-username>&
    PASSWORD=<your-password>&
    DATA_ROWS=1&
    EXAMPLE_VL_NY-CITY,05/01/2026 00:00,,,100,300,300.8,400,,,,,,,
    EOF
```

**Upload — Submit Unit Commitment Data (UC_DATA)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
      --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
      -H "Content-Type: text/csv" \
      -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
      --data-binary @- <<'EOF'
    BID_TYPE=UC_DATA&
    USERID=<your-username>&
    PASSWORD=<your-password>&
    DATA_ROWS=1&
    EXAMPLE_GEN_GT,1,2,2,0,1,55,65,78,,,1100,12000,13000,14000,,,0.12,85,95,96,,,450,550,650,770,,
    EOF
```

**Upload — Submit Transaction Bids (TRAN_BID)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
      --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
      -H "Content-Type: text/csv" \
      -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
      --data-binary @- <<'EOF'
    BID_TYPE=TRAN_BID&
    USERID=<your-username>&
    PASSWORD=<your-password>&
    DATA_ROWS=1&
    05/01/2026 00:00,EXAMPLE_SRC_CT2,EXAMPLE_SNK_CE_NY-CITY,DAM,,,,,,,S12345,,10
    EOF
```

**Upload — Delete Transaction Bids (DELETE_TRAN_BID)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
      --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
      -H "Content-Type: text/csv" \
      -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
      --data-binary @- <<'EOF'
    BID_TYPE=DELETE_TRAN_BID&
    USERID=<your-username>&
    PASSWORD=<your-password>&
    DATA_ROWS=1&
    PROCESS_UNIDENTIFIED_BIDS=N&
    1000000027,90000003,05/01/2026 10:00,DAM
    EOF
```

**Upload — Confirm Transaction Bids (CONFIRM_TRAN_BID)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
      --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
      -H "Content-Type: text/csv" \
      -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
      --data-binary @- <<'EOF'
    BID_TYPE=CONFIRM_TRAN_BID&
    USERID=<your-username>&
    PASSWORD=<your-password>&
    DATA_ROWS=1&
```

```
PROCESS_UNIDENTIFIED_BIDS=Y&
1000000027,90000003,05/01/2026 00:00,DAM,Y
EOF
```

**Download — Generator Bids & Schedules (GEN_SCH)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
  -H "Content-Type: text/csv" \
  -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
  --data-binary @- <<'EOF'
QUERY_TYPE=GEN_SCH&
USERID=<your-username>&
PASSWORD=<your-password>&
MARKET_TYPE=DAM&
DATE=05/01/2026 00:00&
GENERATOR=EXAMPLE_GEN_GT1&
CURRENT_ADVISORY_SCHEDULES_FLAG=Y&
EOF
```

**Download — Load Details (LOAD_DETAIL)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
  -H "Content-Type: text/csv" \
  -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
  --data-binary @- <<'EOF'
QUERY_TYPE=LOAD_DETAIL&
USERID=<your-username>&
PASSWORD=<your-password>&
LOAD_AREA_BUS=EXAMPLE_VL_NY-CITY&
EOF
```

**Download — Transaction Contracts (TRAN_CONTRACT)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
  -H "Content-Type: text/csv" \
  -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
  --data-binary @- <<'EOF'
QUERY_TYPE=TRAN_CONTRACT&
USERID=<your-username>&
PASSWORD=<your-password>&
EOF
```

**Download — Generator RTD Schedules (GEN_RTD)**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
  -H "Content-Type: text/csv" \
  -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
  --data-binary @- <<'EOF'
QUERY_TYPE=GEN_RTD&
USERID=<your-username>&
```

```
PASSWORD=<your-password>&
DATE=05/01/2026 00:00&
GENERATOR=100001&
CURRENT_ADVISORY_SCHEDULES_FLAG=N&
EOF
```

**File-based upload (alternative syntax):**

```
curl -X POST "https://updown-api.nyiso.com/updown/api/v1/csv" \
  --cert /path/to/naesb-cert.pem --key /path/to/naesb-key.pem \
  -H "Content-Type: text/csv" \
  -H "Authorization: Basic $(echo -n 'username:password' | base64)" \
  --data-binary @gen-bids.csv
```

#### 7.4.1.3 Response

The /csv endpoint always returns **HTTP 200 OK** with a CSV-formatted text body, regardless of whether the underlying operation succeeded or encountered validation failures. This matches legacy MIS behavior where success and validation errors are communicated within the CSV body itself.

**Upload Response Format:**

Upload responses begin with a three-line header:

TIME_STAMP=<MM/dd/yyyy HH:mm>
BID_TYPE=<operation>
DATA_ROWS=<count>

Followed by comma-separated data rows containing the same fields as the MPUG Section 8 response template for the given BID_TYPE, including bid status and validation messages in the trailing columns.

**Download Response Format:**

Download responses begin with a three-line header:

TIME_STAMP=<MM/dd/yyyy HH:mm>
BID_TYPE=<QUERY_TYPE>
DATA_ROWS=<count>

Followed by comma-separated data rows containing the response fields defined in the MPUG Section 8 download template for the given QUERY_TYPE.

**Error Responses:**

If the request cannot be parsed or does not match any known template, the BUD system returns HTTP

400 with:

Upload/Download Error --

UDF-10018 ERROR: The template does not match any known template types.

If the request is routed to the appropriate handler but fails processing (e.g., data access error, invalid data), the error is prefixed with Upload/Download Error -- followed by the specific error details.

For complete response field ordering and data type definitions for each BID_TYPE and QUERY_TYPE, refer to the corresponding template in **MPUG Section 8** (PDF link).

#### 7.4.1.4 Response Examples

**Upload Response — GEN_BID (accepted)**

TIME_STAMP=05/01/2026 14:30

BID_TYPE=GEN_BID

DATA_ROWS=2

"EXAMPLE_GEN_GT1",100001,"05/01/2026 00:00","Day-Ahead","",45.1,45.1,,,999,3,,,,,0,0,45.1,,,,,,,,,,66,,,

,,,,,,,,,0,,0,1000000001,"Bid Accepted";""

"EXAMPLE_GEN_GT1",100001,"05/01/2026 01:00","Day-Ahead","",45.1,45.1,,,999,3,,,,,0,0,45.1,,,,,,,,,,66,,,

,,,,,,,,,0,,0,1000000002,"Bid Accepted";""

**Upload Response — DELETE_LOAD_BID (deleted)**

TIME_STAMP=05/01/2026 14:35

BID_TYPE=DELETE_LOAD_BID

DATA_ROWS=1

"EXAMPLE_VL_NY-CITY",100001,"05/01/2026 00:00",,,,,,,,,,,,1000000015,,,,"Bid Deleted",""

**Download Response — LOAD_DETAIL**

TIME_STAMP=05/01/2026 14:40

BID_TYPE=LOAD_DETAIL

DATA_ROWS=1

"Y","EXAMPLE_VL_NY-CITY","EXAMPLE_LSE","J","NYC","NYC-EDC",100001,"Y","Y","N","N"

**Download Response — U_COMM**

TIME_STAMP=05/01/2026 14:45

BID_TYPE=U_COMM

DATA_ROWS=1

"EXAMPLE_GEN_GT",100001,1,2,2,0,1,55,65,78,,,1100,12000,13000,14000,,,0.12,85,95,96,,,450,550,650,770,,,100000001,"EXAMPLE_USER","05/01/2026 10:00"

### Error Response — Invalid Template

Upload/Download Error --

UDF-10018 ERROR: The template does not match any known template types.

# Appendix A: Field Validation Reference

**Note:** All existing bidding/upload-download rules from the Market Participant User's Guide apply to the BUD system.

**Bid Date/Time:**

- Must be in ISO-8601 format with timezone offset
- Must be at the top of the hour (minutes = 00)
- Must be within the allowed bidding window for the applicable market
- Must not be in the past (for submission)

**PTID:**

- Must be a whole number with up to 6 digits
- Must correspond to an active, registered unit

**Unit Name (loadName, generatorName, sourceName, sinkName):**

- Must contain only alphanumeric characters, underscores (_), hyphens (-), and spaces
- Must correspond to a registered unit name in the MIS

**Price Cap Rules (Load Bids):**

- Price cap MW and Dollar must both be provided or both be null
- Price cap values cannot be negative
- Price cap MW values must be in ascending order (Cap1 < Cap2 < Cap3)

**Dispatch Curve Rules (Generator Bids):**

- At least one dispatch MW/Dollar pair is required for ISO Committed and Self Committed Flexible bids
- Dispatch dollar values must be in ascending order
- Dispatch MW values must not exceed the upper operating limit

**Generator Business Rules:**

- Upper Operating Limit (UOLn) must not exceed the unit's maximum operating limit
- Emergency Upper Operating Limit (UOLe) must be >= UOLn
- Fixed Minimum Generation MW must be >= the unit's physical minimum generation MW
- Schedule Type must be valid for the unit type (, certain types require self-committed schedules)

- Reserve cost fields are only allowed for qualified units

# Appendix B: Common Error Messages

The table below summarizes the most common error codes and their messages. Codes with the CBM- prefix originate from the marketplace rules engine; UPD- codes originate from the BUD request-validation layer; UDF- codes originate from legacy CSV-format validation; and BUD- codes are reserved for BUD-specific flow errors.

| Error Code | Message | Typical Cause |
|---|---|---|
| CBM-20014 | Bid date is outside the market window | Bid submitted after the market close for the requested hour |
| CBM-20056 | Upper operating limit (UOL) is required | Generator bid is missing upperOperatingLimit |
| CBM-20067 | User is not authorized to bid for this unit | User's org does not own the load/generator/interface |
| CBM-20083 | Price cap MW and Dollar must both be provided or both be null | Incomplete price-cap MW/$ pair |
| CBM-20090 | Bid rejected: non-utility generator self-committed bid on 25-hour day | Self-flex bid on fall-back DST day where it is not allowed |
| CBM-22042 | Generator ownership mismatch | displayName / ptid not owned by the authenticated user's org |
| UPD-10002 | Invalid date/time format | bidDate does not match ISO-8601 with offset; minutes must be 00 |
| UPD-10006 | Missing required field | A field required by the DTO was null or absent |
| UPD-10007 | Invalid username or password | Basic-auth credentials were not accepted |
| UPD-10010 | Market type must be DAM or HAM | market value is not one of the allowed literals |
| UDF-10002 | DATA_ROWS count does not match the number of data rows | CSV header DATA_ROWS=n disagrees with body row count |
| BUD-190 | Delete bid not found | The bidId supplied does not exist or does not belong to your org |
| (generic) | Bid date and time cannot be null | The bidDate field is missing |
| (generic) | PTID must be a number with up to 6 integer digits | Invalid PTID format |
| (generic) | Price cap MW values must be in ascending order | Price caps not monotonically increasing |
| (generic) | Bid not found | Attempting to delete a non-existent bid |

**Note:** For the authoritative, up-to-date list of marketplace-rule error codes refer to the NYISO Technical

Bulletin Bidding Upload/Download, available via the NYISO document library. The BUD system returns the full code + message in both the JSON validationErrors{} object and the CSV row-level status column.

## Appendix C: Glossary

| Term | Definition |
|---|---|
| BUD | Bidding Upload/Download — the NYISO's API system for managing electricity market bids |
| BTM | Behind-The-Meter — generation resources located behind the customer meter |
| CSR | Co-located Storage Resource — an energy storage resource co-located with a generator |
| DAM | Day-Ahead Market — the forward market for scheduling energy and ancillary services for the next operating day |
| DST | Daylight Saving Time — the seasonal adjustment of clocks; relevant for 25-hour day handling |
| ESR | Energy Storage Resource — a resource capable of storing and discharging energy |
| HAM | Hour-Ahead Market — the market for scheduling energy closer to real-time |
| MIS | Market Information System — the NYISO's web-based system for Market Participant interaction |
| MPUG | Market Participants User's Guide — the comprehensive NYISO guide for Market Participant operations available at www.nyiso.com |
| MW | Megawatt — unit of electric power |
| MWh | Megawatt-hour — unit of electric energy |
| NAESB | North American Energy Standards Board — the organization that issues digital certificates for energy market authentication |
| PTID | Point Identifier — a unique numeric identifier for a generation or load resource point |
| RTD | Real-Time Dispatch — the real-time market dispatch process |
| TLS | Transport Layer Security — the encryption protocol used for secure HTTPS connections |
| UC | Unit Commitment — the parameters governing how a generator starts up, runs, and shuts down |
| UOL | Upper Operating Limit — the maximum MW output a generator can supply |
| UOLe | Emergency Upper Operating Limit — the maximum MW output under emergency conditions |