

SiteProc API Documentation

Version 1.0 | Last Updated: November 2025

Table of Contents

- 1. [Getting Started](#)
 - 2. [Authentication](#)
 - 3. [Rate Limiting](#)
 - 4. [Endpoints](#)
 - 5. [Webhooks](#)
 - 6. [Error Handling](#)
 - 7. [Code Examples](#)
 - 8. [SDKs](#)
-

Getting Started

The SiteProc API allows you to integrate construction management functionality into your own applications.

Base URL

```
https://api.siteproc.com/v1
```

API Versioning

The API is versioned using URL path versioning. Current version: **v1**

Content Type

All requests and responses use JSON:

```
Content-Type: application/json
```

Authentication

API Keys

- 1. **Generate API Key**
 - Log into SiteProc
 - Go to Settings → Integrations → API
 - Click "Generate New API Key"

- Copy and store securely

2. Authentication Header

```
Authorization: Bearer YOUR_API_KEY
```

Example Request

```
curl -X GET \  
  https://api.siteproc.com/v1/projects \  
  -H 'Authorization: Bearer sk_live_abc123...' \  
  -H 'Content-Type: application/json'
```

Security Best Practices

☑ Do:

- Store API keys securely (environment variables)
- Use separate keys for dev/production
- Rotate keys regularly
- Use HTTPS only

✗ Don't:

- Commit keys to version control
- Share keys publicly
- Use production keys in development
- Hardcode keys in applications

Rate Limiting

Limits

- **Standard Plan:** 1,000 requests/hour
- **Professional Plan:** 5,000 requests/hour
- **Enterprise Plan:** Custom limits

Rate Limit Headers

```
X-RateLimit-Limit: 1000  
X-RateLimit-Remaining: 950  
X-RateLimit-Reset: 1699380000
```

Handling Rate Limits

When rate limited, API returns:

```
{
  "error": {
    "type": "rate_limit_exceeded",
    "message": "Rate limit exceeded. Try again in 45 seconds.",
    "retry_after": 45
  }
}
```

HTTP Status: 429 Too Many Requests

Endpoints

Projects

List Projects

```
GET /projects
```

Parameters:

Parameter	Type	Description
status	string	Filter by status: active, completed, archived
limit	integer	Number of results (1-100, default: 20)
offset	integer	Pagination offset

Response:

```
{
  "data": [
    {
      "id": "prj_abc123",
      "name": "Downtown Office Renovation",
      "status": "active",
      "budget": 50000.00,
      "spent": 25000.00,
      "start_date": "2025-01-15",
      "end_date": "2025-06-30",
      "client": {
        "id": "cli_xyz789",
        "name": "ABC Company"
      },
      "created_at": "2025-01-10T10:00:00Z",
    }
  ]
}
```

```
    "updated_at": "2025-11-07T14:30:00Z"
  }
],
"pagination": {
  "total": 45,
  "limit": 20,
  "offset": 0,
  "has_more": true
}
}
```

Get Project

GET /projects/{project_id}

Response:

```
{
  "id": "prj_abc123",
  "name": "Downtown Office Renovation",
  "description": "Complete renovation of 5th floor office space",
  "status": "active",
  "budget": 50000.00,
  "spent": 25000.00,
  "committed": 15000.00,
  "remaining": 10000.00,
  "start_date": "2025-01-15",
  "end_date": "2025-06-30",
  "completion_percentage": 45,
  "client": {
    "id": "cli_xyz789",
    "name": "ABC Company",
    "contact_email": "john@abccompany.com",
    "contact_phone": "+1234567890"
  },
  "location": {
    "address": "123 Main St, Suite 500",
    "city": "New York",
    "state": "NY",
    "zip": "10001",
    "country": "US",
    "coordinates": {
      "latitude": 40.7128,
      "longitude": -74.0060
    }
  },
  "team": [
    {
      "id": "usr_def456",
```

```
    "name": "John Smith",
    "role": "project_manager",
    "email": "john@company.com"
  }
],
"created_at": "2025-01-10T10:00:00Z",
"updated_at": "2025-11-07T14:30:00Z"
}
```

Create Project

POST /projects

Request Body:

```
{
  "name": "New Office Building",
  "description": "Construction of 3-story office building",
  "status": "planning",
  "budget": 500000.00,
  "start_date": "2025-12-01",
  "end_date": "2026-12-31",
  "client_id": "cli_xyz789",
  "location": {
    "address": "456 Oak Avenue",
    "city": "San Francisco",
    "state": "CA",
    "zip": "94102"
  },
  "team_members": ["usr_def456", "usr_ghi789"]
}
```

Response: 201 Created

```
{
  "id": "prj_new123",
  "name": "New Office Building",
  ...
}
```

Update Project

PATCH /projects/{project_id}

Request Body:

```
{
  "status": "in_progress",
  "budget": 550000.00,
  "completion_percentage": 25
}
```

Response: 200 OK

Delete Project

```
DELETE /projects/{project_id}
```

Response: 204 No Content

Orders

List Orders

```
GET /orders
```

Parameters:

Parameter	Type	Description
project_id	string	Filter by project
status	string	pending, acknowledged, delivered, completed
supplier_id	string	Filter by supplier
from_date	date	Filter by date (YYYY-MM-DD)
to_date	date	Filter by date (YYYY-MM-DD)
limit	integer	Results per page (1-100)
offset	integer	Pagination offset

Response:

```
{
  "data": [
    {
      "id": "ord_abc123",

```

```
    "order_number": "PO-2025-001",
    "project_id": "prj_abc123",
    "supplier_id": "sup_xyz789",
    "status": "delivered",
    "order_date": "2025-11-01",
    "delivery_date": "2025-11-05",
    "total_amount": 5000.00,
    "currency": "USD",
    "items": [
      {
        "id": "itm_001",
        "description": "Portland Cement",
        "quantity": 50,
        "unit": "50kg bags",
        "unit_price": 15.00,
        "total": 750.00
      }
    ],
    "created_at": "2025-11-01T09:00:00Z",
    "updated_at": "2025-11-05T14:30:00Z"
  }
]
```

Create Order

POST /orders

Request Body:

```
{
  "project_id": "prj_abc123",
  "supplier_id": "sup_xyz789",
  "delivery_date": "2025-11-15",
  "delivery_address": "123 Construction Site Ave",
  "notes": "Please call before delivery",
  "items": [
    {
      "description": "Steel Rebar 12mm",
      "quantity": 100,
      "unit": "meters",
      "unit_price": 5.50
    },
    {
      "description": "Portland Cement",
      "quantity": 20,
      "unit": "50kg bags",
      "unit_price": 15.00
    }
  ]
}
```

```
]
}
```

Response: 201 Created

Update Order Status

```
PATCH /orders/{order_id}/status
```

Request Body:

```
{
  "status": "delivered",
  "notes": "Delivered successfully at 2:30 PM",
  "proof_of_delivery": {
    "recipient_name": "John Smith",
    "signature_url": "https://...",
    "photo_urls": ["https://...", "https://..."]
  }
}
```

Response: 200 OK

Suppliers

List Suppliers

```
GET /suppliers
```

Response:

```
{
  "data": [
    {
      "id": "sup_xyz789",
      "name": "ABC Building Supplies",
      "category": "materials",
      "contact_name": "Jane Doe",
      "contact_email": "jane@abcsupplies.com",
      "contact_phone": "+1234567890",
      "payment_terms": "Net 30",
      "rating": 4.5,
      "active": true
    }
  ]
}
```



```
}  
]  
}
```

Create Supplier

POST /suppliers

Request Body:

```
{  
  "name": "XYZ Equipment Rental",  
  "category": "equipment",  
  "contact_name": "Bob Johnson",  
  "contact_email": "bob@xyzequipment.com",  
  "contact_phone": "+1987654321",  
  "address": {  
    "street": "789 Industrial Blvd",  
    "city": "Chicago",  
    "state": "IL",  
    "zip": "60601"  
  },  
  "payment_terms": "Net 15",  
  "notes": "Specializes in heavy equipment"  
}
```

Response: 201 Created

Deliveries

Confirm Delivery

POST /deliveries/{delivery_id}/confirm

Request Body:

```
{  
  "received_by": "John Smith",  
  "received_at": "2025-11-07T14:30:00Z",  
  "condition": "good",  
  "notes": "All items received in good condition",  
  "photos": ["base64_encoded_image_1", "base64_encoded_image_2"],  
}
```

```
"signature": "base64_encoded_signature"
}
```

Response: 200 OK

Reports

Generate Report

POST /reports

Request Body:

```
{
  "type": "project_financial",
  "project_id": "prj_abc123",
  "date_from": "2025-01-01",
  "date_to": "2025-11-07",
  "format": "pdf"
}
```

Response:

```
{
  "report_id": "rep_abc123",
  "status": "generating",
  "download_url": null,
  "estimated_time": 30
}
```

Get Report Status

GET /reports/{report_id}

Response:

```
{
  "report_id": "rep_abc123",
  "status": "completed",
  "download_url": "https://api.siteproc.com/reports/download/rep_abc123",
}
```

```
"expires_at": "2025-11-08T14:30:00Z"
}
```

Webhooks

Overview

Webhooks allow you to receive real-time notifications when events occur in SiteProc.

Setup

- 1. Go to Settings → Integrations → Webhooks
- 2. Add your endpoint URL
- 3. Select events to subscribe to
- 4. Save webhook

Webhook Events

Event	Description
order.created	New order created
order.acknowledged	Supplier acknowledged order
order.delivered	Order delivered
order.completed	Order completed with POD
delivery.confirmed	Delivery confirmed by site
project.created	New project created
project.updated	Project details updated
budget.alert	Budget threshold reached
payment.received	Payment received

Webhook Payload

```
{
  "id": "evt_abc123",
  "type": "order.delivered",
  "created_at": "2025-11-07T14:30:00Z",
  "data": {
    "order_id": "ord_abc123",
    "project_id": "prj_abc123",
    "supplier_id": "sup_xyz789",
    "delivered_at": "2025-11-07T14:00:00Z",
    "delivered_by": "John Driver",
    "total_amount": 5000.00
  }
}
```

```
}  
}
```

Webhook Security

Verify Signatures:

Each webhook includes a signature header:

```
X-SiteProc-Signature: sha256=abc123def456...
```

Verification Code (Node.js):

```
const crypto = require('crypto');  
  
function verifyWebhook(payload, signature, secret) {  
  const hmac = crypto.createHmac('sha256', secret);  
  const digest = hmac.update(payload).digest('hex');  
  return `sha256=${digest}` === signature;  
}  
  
// Usage  
app.post('/webhook', (req, res) => {  
  const signature = req.headers['x-siteproc-signature'];  
  const isValid = verifyWebhook(  
    JSON.stringify(req.body),  
    signature,  
    process.env.WEBHOOK_SECRET  
  );  
  
  if (!isValid) {  
    return res.status(401).send('Invalid signature');  
  }  
  
  // Process webhook  
  console.log('Event:', req.body.type);  
  res.status(200).send('OK');  
});
```

Error Handling

Error Response Format

```
{  
  "error": {  
    "type": "invalid_request",
```

```
    "message": "The project_id field is required.",
    "code": "missing_required_field",
    "field": "project_id"
  }
}
```

Error Types

Status Code	Error Type	Description
400	invalid_request	Request parameters invalid
401	authentication_error	Invalid API key
403	permission_denied	Insufficient permissions
404	not_found	Resource not found
409	conflict	Resource conflict
429	rate_limit_exceeded	Too many requests
500	server_error	Internal server error

Error Handling Example

```
try {
  const response = await fetch('https://api.siteproc.com/v1/projects', {
    headers: {
      'Authorization': `Bearer ${apiKey}`,
      'Content-Type': 'application/json'
    }
  });

  if (!response.ok) {
    const error = await response.json();

    switch (error.error.type) {
      case 'authentication_error':
        console.error('Invalid API key');
        break;
      case 'rate_limit_exceeded':
        const retryAfter = response.headers.get('Retry-After');
        console.log(`Rate limited. Retry after ${retryAfter}s`);
        break;
      default:
        console.error('API error:', error.error.message);
    }

    return;
  }

  const data = await response.json();
}
```

```
    console.log('Projects:', data);

  } catch (err) {
    console.error('Network error:', err);
  }
}
```

Code Examples

JavaScript/Node.js

```
const fetch = require('node-fetch');

const API_KEY = 'sk_live_your_api_key';
const BASE_URL = 'https://api.siteproc.com/v1';

// Get all projects
async function getProjects() {
  const response = await fetch(`${BASE_URL}/projects`, {
    headers: {
      'Authorization': `Bearer ${API_KEY}`,
      'Content-Type': 'application/json'
    }
  });
}

return await response.json();
}

// Create new order
async function createOrder(orderData) {
  const response = await fetch(`${BASE_URL}/orders`, {
    method: 'POST',
    headers: {
      'Authorization': `Bearer ${API_KEY}`,
      'Content-Type': 'application/json'
    },
    body: JSON.stringify(orderData)
  });

  return await response.json();
}

// Usage
const orderData = {
  project_id: 'prj_abc123',
  supplier_id: 'sup_xyz789',
  delivery_date: '2025-11-15',
  items: [
    {
      description: 'Cement',
      quantity: 50,
    }
  ]
}
```

```
        unit: '50kg bags',
        unit_price: 15.00
    }
]
};

createOrder(orderData)
    .then(order => console.log('Order created:', order))
    .catch(err => console.error('Error:', err));
```

Python

```
import requests

API_KEY = 'sk_live_your_api_key'
BASE_URL = 'https://api.siteproc.com/v1'

headers = {
    'Authorization': f'Bearer {API_KEY}',
    'Content-Type': 'application/json'
}

# Get all projects
def get_projects():
    response = requests.get(f'{BASE_URL}/projects', headers=headers)
    return response.json()

# Create new order
def create_order(order_data):
    response = requests.post(
        f'{BASE_URL}/orders',
        headers=headers,
        json=order_data
    )
    return response.json()

# Usage
order_data = {
    'project_id': 'prj_abc123',
    'supplier_id': 'sup_xyz789',
    'delivery_date': '2025-11-15',
    'items': [
        {
            'description': 'Cement',
            'quantity': 50,
            'unit': '50kg bags',
            'unit_price': 15.00
        }
    ]
}
```

```
order = create_order(order_data)
print(f'Order created: {order}')
```

cURL

```
# List projects
curl -X GET \
  'https://api.siteproc.com/v1/projects?limit=10' \
  -H 'Authorization: Bearer sk_live_your_api_key'

# Create order
curl -X POST \
  'https://api.siteproc.com/v1/orders' \
  -H 'Authorization: Bearer sk_live_your_api_key' \
  -H 'Content-Type: application/json' \
  -d '{
    "project_id": "prj_abc123",
    "supplier_id": "sup_xyz789",
    "delivery_date": "2025-11-15",
    "items": [
      {
        "description": "Cement",
        "quantity": 50,
        "unit": "50kg bags",
        "unit_price": 15.00
      }
    ]
  }'

# Update order status
curl -X PATCH \
  'https://api.siteproc.com/v1/orders/ord_abc123/status' \
  -H 'Authorization: Bearer sk_live_your_api_key' \
  -H 'Content-Type: application/json' \
  -d '{
    "status": "delivered",
    "notes": "Delivered successfully"
  }'
```

SDKs

Official SDKs

JavaScript/TypeScript

```
npm install @siteproc/sdk
```


Python

```
pip install siteproc-sdk
```

PHP

```
composer require siteproc/sdk
```

SDK Usage Example

```
const SiteProc = require('@siteproc/sdk');

const client = new SiteProc({
  apiKey: 'sk_live_your_api_key'
});

// Get projects
const projects = await client.projects.list();

// Create order
const order = await client.orders.create({
  projectId: 'prj_abc123',
  supplierId: 'sup_xyz789',
  deliveryDate: '2025-11-15',
  items: [
    {
      description: 'Cement',
      quantity: 50,
      unit: '50kg bags',
      unitPrice: 15.00
    }
  ]
});

// Subscribe to webhooks
client.webhooks.on('order.delivered', (event) => {
  console.log('Order delivered:', event.data);
});
```

Best Practices

Performance

☒ **Use pagination** for large datasets ☒ **Cache responses** when appropriate ☒ **Use webhooks** instead of polling ☒ **Batch requests** when possible ☒ **Compress responses** (gzip)

Security



☒ **Store API keys securely** ☒ **Use HTTPS only** ☒ **Validate webhook signatures** ☒ **Rotate keys regularly** ☒ **Use environment variables**

Error Handling



☒ **Implement retries** with exponential backoff ☒ **Handle rate limits** gracefully ☒ **Log errors** for debugging ☒ **Validate inputs** before API calls

Support

API Support

 **Email:** api-support@siteproc.com  **Discord:** <https://discord.gg/siteproc>  **Docs:** <https://docs.siteproc.com/api>

Report Issues

 **GitHub:** <https://github.com/siteproc/api-issues>  **Status Page:** <https://status.siteproc.com>

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API Version: 1.0 Last Updated: November 2025