
WooCommerce Customer Care MCP Server

A comprehensive **Model Context Protocol (MCP) Server** that provides advanced customer care capabilities for WooCommerce stores. This server enables AI assistants and customer service agents to perform complete order management, customer support, and e-commerce operations through a unified API with **enterprise-level security**.

 **Privacy-First Design:** Built with customer verification to ensure customers can only access their order information, protecting sensitive data and maintaining compliance with privacy regulations.

Latest Updates - v2.0 Security Enhancement

NEW: Customer Verification & Privacy Protection System

- **3 New Security Tools:** `verify_customer_for_order`, `verify_customer_identity`, `get_verified_order`
- **Multi-Factor Verification:** Email + Phone + Name + Address verification
- **Privacy Protection:** Customers can only access their orders
- **Enterprise Security:** GDPR compliance and audit logging
- **Progressive Security:** Different verification levels for different operations

Total: 23 Comprehensive Customer Care Tools (20 original + 3 new security tools)

Features

Customer Verification & Privacy Protection ★ NEW

- Multi-factor customer verification before order access
- Privacy protection - customers can only access their orders
- Secure identity verification with email, phone, name, and address matching
- Progressive verification levels for different operations
- Enterprise-level security compliance (GDPR ready)
- View and search orders with advanced filtering
- Update order status and add notes
- Track order history and customer information
- Process order modifications and status changes

Product Management

- Search products by name, SKU, or description
- Check real-time stock availability
- Get complete product information and pricing
- Filter products by category and status

Customer Management

- Search and manage customer accounts
- View complete customer purchase history
- Create new customer accounts
- Access customer contact and billing information

Customer Service Tools

- Create discount coupons for service recovery
- Process full or partial refunds

- Add internal and customer-visible order notes
 - Handle customer complaints and issues
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Complete Tool Suite

23 Comprehensive Customer Care Tools:

- **3 Customer Verification Tools** - Secure identity verification and privacy protection
- **7 Order Management Tools** - Complete order lifecycle management
- **3 Product Management Tools** - Inventory and product information
- **4 Customer Management Tools** - Account management and history
- **5 Customer Service Tools** - Service recovery and support operations
- **1 System Tool** - Connectivity testing and diagnostics

Installation

Prerequisites

- Node.js 22+
- npm or yarn
- WooCommerce store with REST API enabled
- WooCommerce API credentials (Consumer Key & Secret)

Getting Started

After purchasing the WooCommerce Customer Care MCP Server, you will receive a source code package. Follow the installation guide below based on your hosting environment.

Local PC Installation

Windows Installation

1. **Extract the source code:**
 - Extract the downloaded ZIP file to your desired location (e.g., C:\woocommerce-mcp-server\)
2. **Install Node.js:**
 - Download and install Node.js 22+ from nodejs.org
 - Verify installation: Open Command Prompt and run `node --version`
3. **Setup the application:**

```
cd C:\woocommerce-mcp-server
npm install
```

4. **Configure environment variables:**

- Create a .env file in the root directory:

```
WOOCOMMERCE_URL=https://your-woocommerce-store.com
WOOCOMMERCE_CONSUMER_KEY=ck_your_consumer_key_here
WOOCOMMERCE_CONSUMER_SECRET=cs_your_consumer_secret_here
PORT=3001
```

5. **Build and start:**

```
npm run build
npm start
```

macOS/Linux Installation

1. **Extract the source code:**

```
unzip woocommerce-mcp-server.zip
cd woocommerce-mcp-server
```

2. **Install dependencies:**

```
npm install
```

3. **Configure environment variables:**

- Create a .env file:

```
WOOCOMMERCE_URL=https://your-woocommerce-store.com
WOOCOMMERCE_CONSUMER_KEY=ck_your_consumer_key_here
WOOCOMMERCE_CONSUMER_SECRET=cs_your_consumer_secret_here
PORT=3001
```

4. **Build and start:**

```
npm run build
npm start
```

The server will start on <http://localhost:3001> with the MCP endpoint at /mcp.

VPS Server Installation

Ubuntu/Debian Server

1. Upload and extract source code:

```
# Upload the ZIP file to your server via SCP/SFTP
unzip woocommerce-mcp-server.zip
cd woocommerce-mcp-server
```

2. Install Node.js:

```
# Install Node.js 22+
curl -fsSL https://deb.nodesource.com/setup_22.x | sudo -E bash -
sudo apt-get install -y nodejs
# Verify installation
node --version
npm --version
```

3. Install dependencies:

```
npm install
```

4. Configure environment variables:

```
nano .env
```

- Add your configuration:

```
WOOCOMMERCE_URL=https://your-woocommerce-store.com
WOOCOMMERCE_CONSUMER_KEY=ck_your_consumer_key_here
WOOCOMMERCE_CONSUMER_SECRET=cs_your_consumer_secret_here
PORT=3001
NODE_ENV=production
```

5. Build the application:

```
npm run build
```

6. Install PM2 for process management:

```
sudo npm install -g pm2  
pm2 start dist/index.js --name "woocommerce-mcp"  
pm2 startup  
pm2 save
```

7. Configure firewall (optional):

```
sudo ufw allow 3001
```

CentOS/RHEL Server

1. Install Node.js:

```
curl -fsSL https://rpm.nodesource.com/setup_22.x | sudo bash -  
sudo yum install -y nodejs
```

2. Follow the same steps as Ubuntu for application setup.

cPanel Installation

Shared Hosting with cPanel

1. Upload source code:

- Log in to cPanel
- Go to File Manager
- Navigate to public_html or create a subdirectory
- Upload and extract the ZIP file

2. Setup Node.js (if supported):

- Go to "Software" → "Setup Node.js App"
- Create a new application:
 - Node.js version: 18+
 - Application mode: Production
 - Application root: /path/to/woocommerce-mcp-server
 - Application URL: your-domain.com/mcp-server (optional)
 - Startup file: dist/index.js

3. Install dependencies:

- Click "Run NPM Install" in the cPanel Node.js interface
- Or use Terminal if available:

```
cd /home/username/public_html/woocommerce-mcp-server  
npm install
```

4. Configure environment variables:

- In cPanel Node.js App settings, add environment variables:
 - WOOCOMMERCE_URL: https://your-store.com
 - WOOCOMMERCE_CONSUMER_KEY: ck_your_key
 - WOOCOMMERCE_CONSUMER_SECRET: cs_your_secret
 - PORT: 3001 (or assigned port)

5. Build and start:

```
npm run build
```

- Start the application from the cPanel Node.js interface
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WooCommerce API Setup

Enable WooCommerce REST API

1. **Go to WooCommerce Settings:**
 - Navigate to WooCommerce → Settings → Advanced → REST API
2. **Create API Key:**
 - Click "Add Key."
 - Description: MCP Customer Care Server
 - User: Select an administrator user
 - Permissions: Read/Write
 - Click "Generate API Key."
3. **Copy Credentials:**
 - Consumer Key: ck_...
 - Consumer Secret: cs_...
 - Add these to your .env file

Required Permissions

The API user should have permissions for:

- Orders (read/write)
- Products (read)
- Customers (read/write)
- Coupons (read/write)
- Order notes (read/write)
- Refunds (read/write)

Public Access & Production Deployment

Local Development Access

For local testing and development:

```
# Install localtunnel for temporary public access
npm install -g localtunnel
# Create public tunnel
npx localtunnel --port 3001 --subdomain your-store-name
```

Your server will be available at: <https://your-store-name.loca.lt/mcp>

Production Deployment Options

- **Option 1: VPS with Custom Domain**
 - Deploy on your VPS server (DigitalOcean, AWS EC2, Linode, etc.)
 - Point your domain/subdomain to the server
 - Use a reverse proxy (Nginx/Apache) for SSL and port management
 - Example: <https://mcp.yourdomain.com/mcp>
- **Option 2: Shared Hosting with cPanel**
 - Upload to shared hosting that supports Node.js
 - Use cPanel's Node.js app manager
 - Access via: <https://yourdomain.com:3001/mcp>
- **Option 3: Cloud Platforms**
 - **Heroku:** Easy deployment with git-based workflow
 - **Railway:** Modern deployment platform
 - **Vercel:** For serverless deployment
 - **Netlify:** Functions-based deployment
- **Option 4: Docker Container**
 - Containerize the application
 - Deploy on any Docker-compatible platform
 - Use docker-compose for easy management

Integration

VS Code MCP Extension

1. **Install the MCP extension** in VS Code
2. **Configure MCP settings** (.vscode/mcp.json):

```
{
  "servers": {
    "woocommerce-customer-care": {
      "url": "http://localhost:3001/mcp",
      "type": "http"
    }
  },
  "inputs": []
}
```

Claude Desktop Integration

Add to your Claude Desktop MCP configuration:

```
{
  "mcpServers": {
    "woocommerce-customer-care": {
      "command": "node",
      "args": ["/path/to/woocommerce-mcp-server/dist/index.js"],
      "env": {
        "WOOCOMMERCE_URL": "https://your-store.com",
        "WOOCOMMERCE_CONSUMER_KEY": "ck_...",
        "WOOCOMMERCE_CONSUMER_SECRET": "cs_..."
      }
    }
  }
}
```

HTTP API Integration

For custom integrations, use the HTTP MCP protocol:

```
curl -X POST http://localhost:3001/mcp \
-H "Content-Type: application/json" \
-d '{
  "jsonrpc": "2.0",
  "method": "tools/call",
  "params": {
    "name": "get_recent_orders",
    "arguments": {"days": 7}
  },
  "id": 1
}'
```

Available Tools

- **verify_customer_for_order:** Verify customer identity before providing order information.
 - **verify_customer_identity:** Verify customer identity for general customer service access.
 - **get_verified_order:** Get order details only after successful customer verification.
 - **get_orders:** Get orders with advanced filtering options.
 - **get_order:** Get complete details of a specific order.
 - **search_orders:** Search orders by customer name, email, or order details.
 - **get_orders_by_status:** Get all orders with a specific status.
 - **get_recent_orders:** Get recent orders from the last X days.
 - **update_order_status:** Update order status and add notes.
 - **add_order_note:** Add notes to orders (internal or customer-visible).
 - **search_products:** Search products with filters.
 - **get_product:** Get complete product information.
 - **check_product_stock:** Check product availability and stock levels.
 - **search_customers:** Search customers by email, name, or phone.
 - **get_customer:** Get complete customer information and purchase history.
 - **get_customer_orders:** Get complete order history for a customer.
 - **create_customer:** Create a new customer account.
 - **create_coupon:** Create discount coupons for customer service.
 - **process_refund:** Process full or partial refunds.
 - **test_connection:** Test WooCommerce API connectivity.
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Usage Examples

Customer Service Scenarios

Scenario 1: Secure Customer Order Inquiry

1. Use `verify_customer_for_order` with order ID and customer details.
2. If verification passes, get order details.
3. Check order status and provide shipping information.
4. Add a customer note about the inquiry.

Scenario 2: Secure Order Access with Combined Tool

1. Use `get_verified_order` with order ID and verification data.
2. The tool automatically verifies the customer and returns the order if authorized.
3. Provide order status and details securely.

Scenario 3: Process Return and Refund

1. Use `get_order` to verify order details.
2. Add an order note about the return request.
3. Use `process_refund` to issue a refund.
4. Update order status to "refunded."
5. Create a service recovery coupon if needed.

Security

Customer Verification & Privacy Protection

- **Multi-Factor Verification:** Requires at least 2 matching customer details (e.g., email/phone + name/address).
- **Order Privacy Protection:** Customers can only access their own order information.
- **Progressive Security:** Different verification levels for different operations.
- **Access Control:** Automatic denial of access if verification fails.

Security Best Practices

- **Always Use Verification:** Use `get_verified_order` instead of `get_order` for customer inquiries.
- **Failed Verification:** Never provide order details if verification fails.
- **Logging:** All verification attempts are logged for security auditing.

API Security

- Uses WooCommerce's built-in authentication.
- Requires a valid Consumer Key and Secret.
- All API calls are logged for audit purposes

Production Deployment

Hosting Requirements

- **Minimum:** 1 vCPU, 512MB RAM, 1GB Storage, Node.js 18+ support.
- **Recommended:** 2 vCPU, 2GB RAM, 5GB Storage, SSL Certificate, custom domain/subdomain.

Docker Deployment

Dockerfile

```
FROM node:18-alpine
WORKDIR /app
# Copy package files
COPY package*.json ./
# Install dependencies
RUN npm ci --only=production
# Copy built application
COPY dist/ ./dist/
COPY .env ./
EXPOSE 3001
HEALTHCHECK --interval=30s --timeout=3s --start-period=5s --retries=3 \
  CMD curl -f http://localhost:3001/ || exit 1
CMD ["node", "dist/index.js"]
```

Docker Compose Setup

```
version: '3.8'
services:
  woocommerce-mcp:
    build: .
    ports:
      - "3001:3001"
    environment:
      - NODE_ENV=production
      - WOOCOMMERCE_URL=https://your-store.com
      - WOOCOMMERCE_CONSUMER_KEY=ck_your_key
      - WOOCOMMERCE_CONSUMER_SECRET=cs_your_secret
```

```
restart: unless-stopped
```

```
volumes:
```

```
- ./logs:/app/logs
```

Troubleshooting

Common Issues

- **Connection Refused:** Check WOOCOMMERCE_URL and ensure the store is accessible.
- **Authentication Failed:** Verify that your Consumer Key and Secret are correct and have Read/Write permissions.
- **Rate Limiting:** WooCommerce API has a default limit of 100 requests/minute.

Support & Updates

Technical Support

- Email support.
- Comprehensive documentation and video tutorials are available.

Updates & Maintenance

- Free updates for bug fixes and security patches.
- New feature updates and version compatibility.

Development Guidelines

- Use npm run dev for development with auto-reload.
- Run tests with npm test.
- Build for production with npm run build.

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