

MCP SERVER

NO CODE

CLOUD HOSTED

# Bling ERP MCP for AI Agents

Manage Brazilian E-commerce Inventory, Tax Invoices, and Accounts Payable

Bling ERP connects your AI agent directly to Bling's cloud-based business management system. Manage inventory counts, track accounts payable and receivable, generate complex Brazilian tax invoices (NF-e), and process entire sales order lifecycles—all through natural conversation.

**A** Quality Score 92.06/100

inventory-management

order-processing

tax-compliance

back-office

erp-integration

supply-chain



# The connectivity layer between AI and the world's software.



Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

# Your AI Connections Run Through Vinkius Cloud

The world's largest  
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

*The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*

— Architecture principle

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## Four Pillars of the Vinkius Runtime

### 01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

### 03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

### 02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

### 04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

**AES-256**

Encryption at rest

**Ed25519**

PKI vault signatures

**24h TTL**

Ephemeral session keys

**V8 Isolate**

Sandboxed execution

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## One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

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## Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

### 01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

### 02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

### 03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

### 05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

### 04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

### 06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

## Emergency Kill Switch

EU AI Act Art. 14(1)  
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

#### 01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

#### 02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

#### 03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

## Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

**Control Plane**

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

**FinOps**

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

**Firewall & DLP**

PII redaction activity, sensitive data protection counters, and security event timeline.

**Agent Activity**

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

**Tool Health**

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

**Incident Log**

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at [cloud.vinkius.com](https://cloud.vinkius.com) — connect your AI agent in under 60 seconds.

# Bling ERP MCP

18 tools available

Cloud-hosted on Vinkius

This MCP lets you talk to your e-commerce back office like it's a coworker sitting next to you. You don't need to navigate 15 different screens just to check if a product has stock or who owes us money. Instead, you simply ask your agent questions about contacts, products, orders, and finances.

The system handles the complexity of Brazilian tax law for you. Need an invoice? Ask it to query SEFAZ endpoints for issued Product Invoices (NF-e), Consumer Invoices (NFC-e), or Service Invoices (NFS-e). It pulls records from your general ledger, letting you instantly analyze accounts payable and receivable balances using the available tools. Because this connection is managed through Vinkius, you connect once to access Bling ERP's entire operational logic—from listing incoming sales orders to mapping supplier payments.

It's about getting accurate data quickly, without ever having to log into a dashboard or copy-paste an SKU.

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## Core Capabilities

**01 — Manage Suppliers and Clients**

List, search, and create records for all your contacts—whether they are suppliers, clients, or shipping carriers.

**03 — Process Order Flow**

Review incoming sales orders or check on outstanding purchase orders to suppliers, linking them directly to inventory levels.

**05 — Analyze Financial Ledgers**

Pull aggregated financial reports to analyze accounts payable, outstanding receivables, and mapped general ledger groupings.

**02 — Monitor Product Catalog Data**

Get a full list of every product and service you sell, along with detailed categories used across the business.

**04 — Generate Tax Documentation**

Query and monitor the status of all required Brazilian tax invoices (NF-e, NFC-e, NFS-e) against SEFAZ legal standards.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/mcp/bling-erp](https://vinkius.com/mcp/bling-erp) — connect your AI agent in three steps.

- 01 First, subscribe to this MCP on Vinkius and provide your Bling Access Token.
- 02 Next, simply ask your AI agent (e.g., 'Check the outstanding accounts payable for Acme Corp.')
- 03 The agent interprets the request, calls the appropriate function within this MCP, and delivers a clean, conversational answer.

The bottom line is that you treat complex ERP tasks like simple conversations with your AI client.

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## Built For

This connector is built for anyone running e-commerce or physical retail operations in Brazil who gets bogged down by manual data entry, especially when dealing with tax compliance and inventory reconciliation. It's perfect for the ops manager tired of jumping between spreadsheets and the Bling dashboard.

### E-Commerce Operations Manager

Checks incoming sales orders to ensure product stock is available, or lists all products before a new seasonal launch.

### Financial Controller

Consults outstanding accounts receivable and pulls the general ledger details instantly to reconcile payments (Boletos/PIX).

### Logistics Coordinator

Searches warehouse stock logic or verifies customer contact details right before generating a necessary tax invoice.

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## What Changes When You Connect

- 01 Instantly check order status. Instead of listing all sales orders manually, you can ask your agent to find 'all pending shipments for the Northeast region,' using `listar_pedidos_venda`.

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- 02** Streamline tax compliance checks. You never have to guess which invoice type is needed; simply asking the agent about 'product invoices issued yesterday' uses `listar_nfe` and gives you immediate, accurate data.

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  - 03** Reconcile finances without leaving your chat window. The tool lets you query `contas_receber` or `contas_pagar` directly, giving you a real-time view of cash flow based on outstanding obligations.

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  - 04** Maintain product accuracy across channels. By listing products using `listar_produtos` and checking categories using `categorias_produtos`, you ensure that every new item is correctly mapped before going live.

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  - 05** Streamline client data collection. Need to talk to a supplier? You can use `listar_contatos` or `consultar_contato` to verify their current address and tax ID instantly.
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## Real-World Applications

### Checking Inventory Before Sale

A logistics coordinator needs to know if they have enough stock before confirming a large shipment. They ask the agent, 'How much of SKU 991 do we have in Warehouse A?' The agent uses `listar_depositos` and `consultar_producto` to give an immediate, accurate count.

### Handling Returns and Tax Paperwork

A sales rep handles a returned item and needs to verify if the corresponding tax invoice was correctly issued. The agent checks listing NFC-e or `listar_nfe`, confirming the correct legal documentation was generated for the refund.

### Closing Out Monthly Accounts

A financial manager needs to know which vendor bills are due this week. They ask the agent about 'pending bills for vendors,' prompting a check of `contas_pagar` and providing a clear list of amounts owed.

### Onboarding New Suppliers

The purchasing team hires a new vendor and needs to set them up in the system. They use `incluir_contato`, providing all the required details, so the vendor is immediately ready to receive purchase orders via `listar_pedidos_compra`.

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# Patterns to Avoid

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## Mixing financial and inventory checks

### X AVOID

Asking 'What products have outstanding payments?' This mixes two different data streams (Product Catalog vs. Financial Ledger) and will yield meaningless results.

### ✓ INSTEAD

Keep the actions separate. First, use `listar_produtos` to get your inventory list. Then, separately, query `contas_receber` to check the money owed for those items.

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## Assuming tax compliance is automatic

### X AVOID

Just asking 'Send invoice' without specifying the type (product or service) will fail because Brazilian law requires knowing which SEFAZ endpoint to use.

### ✓ INSTEAD

Specify the document type. Always ask the agent if you need an NF-e for products, or an NFS-e for services.

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## Ignoring account structure

### X AVOID

Trying to manually categorize expenses without first checking available financial groupings.

### ✓ INSTEAD

Always run `categorias_financeiras` first. This shows you the correct chart of accounts before making any entry or inquiry.

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# The Right Fit

Use this MCP if your business operates in Brazil, deals with e-commerce inventory and sales cycles, and requires constant interaction with tax documentation (NF-e). It's essential when your workflow involves moving data between orders, stock levels, and financial ledgers.

Don't use it if you are running a highly localized operation that doesn't require formal tax invoicing or if you manage finance records outside of the Bling system. If your needs only involve general CRM tasks without order or inventory components, other specialized tools might be better suited for isolated functions.

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## Bling ERP: Managing Brazilian Tax Invoices and E-commerce Orders

Right now, managing sales in Brazil means constant context switching. You start by receiving a large batch of incoming orders; then you must check the product catalog to confirm stock levels and SKUs. After that, you jump into tax compliance to figure out if an NF-e is needed, all while keeping track of which supplier needs payment next week. It's a manual nightmare of clicks, tabs, and cross-referencing.

With this MCP, your agent handles the flow. You ask it to 'process orders for last week,' and it simultaneously checks `listar_pedidos_venda`, verifies product availability against `listing_depositos`, and confirms if the necessary tax documents were generated by querying `listar_nfe`. The result is a single, comprehensive answer that tells you exactly what's ready to ship and what needs manual follow-up.

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## Bling ERP: Reconciling Financial Accounts Payable and Receivables

Manually reconciling accounts is a time sink. You have to pull reports for `contas_receber`, then manually compare them against pending invoices in `contas_pagar`, checking if the money matches what your team expected for payroll or vendor payments. This process takes hours and invites human error.

Now, you just ask the agent: 'What outstanding funds are due this month?' It pulls the necessary data from both accounts payable and receivable ledgers instantly. You get a single, clear overview of your company's cash position without ever opening an accounting dashboard.

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# Bling ERP: 18 Tools for Inventory, Order Processing & Tax Compliance

Use these tools to programmatically read product data, manage contacts, process sales orders, check tax compliance statuses, and analyze financial ledgers.

#	TOOL	DESCRIPTION
01	listar_contatos	Retrieves a list of all registered contacts, including clients, suppliers, and carriers.
02	consultar_contato	Gets the complete record details for a specific contact ID.
03	incluir_contato	Registers a new business contact (client or supplier) into Bling ERP.
04	listar_produtos	Provides an exhaustive list of all products and services currently set up in the system.
05	consultar_produto	Looks up detailed information about a product using its specific ID.
06	incluir_produto	Adds a brand new product listing to the Bling catalog.
07	categorias_produtos	Lists all available product categories used for organization and reporting.
08	listar_pedidos_venda	Retrieves a list of all recorded sales orders from the system.
09	consultar_pedido	Gets full details for one specific sales order, including line items and payment status.
10	listar_pedidos_compra	Lists all purchase orders that have been sent to suppliers.
11	listar_nfe	Retrieves a list of issued electronic product tax invoices (NF-e).
12	consultar_nfe	Gets the full details, items, and status for one specific NF-e.
13	listar_nfce	Lists consumer electronic tax invoices (NFC-e), typically used for cash register receipts.
14	listar_nfse	Retrieves a list of service tax invoices (NFS-e).
15	contas_receber	Lists all outstanding accounts receivable, including payments due via Boletos or PIX.
16	contas_pagar	Lists current accounts payable obligations owed to various vendors and for operational expenses.

#	TOOL	DESCRIPTION
17	<code>categorias_financeiras</code>	Displays the list of financial account categories (the chart of accounts).
18	<code>listar_depositos</code>	Lists all configured warehouses or stock locations for inventory management.

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## See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

**U** Check on my outstanding bills for suppliers this month.



### Accounts Payable Summary

We currently have 3 pending payments:

- **Vendor ID 5541 (Supplier X):** R\$400.00 due Friday.
- **Vendor ID 7892 (Distributor Y):** R\$1,200.00 due next Monday.
- **Operational Expense:** R\$350.00 for utilities, due end of week.

Total outstanding: **R\$1,950.00**. You can use this data to plan your bank transfers.

**U** List all product details and their current stock count.



### Product Inventory Snapshot

SKU	NAME	CATEGORY	STOCK LOCATION	QUANTITY
991	Nike Running Shoes	Footwear	Warehouse A	45 units
992	Wireless Mouse	Electronics	Warehouse B	120 units
ABC-300	Office Chair Elite	Furniture	Main Depot	8 units

Need more details on a specific product? Just ask for its ID, and I'll retrieve the full description.

## U What sales orders were placed last week that haven't been taxed yet?



### Pending Tax Invoice Report (Last 7 Days)

- **Order ID #445566:** Status: Pending NF-e. Requires action.
- **Order ID #445590:** Status: Pending NFS-e. Service invoice needed.
- **Order ID #445612:** Status: Complete, but NFC-e missing. Please check SEFAZ record 3522-... for the final receipt.

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## Frequently Asked Questions

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### 01 How can I use Bling ERP MCP to manage my inventory levels?

You can ask your agent about product stock and warehouse locations at any time. It checks current listings, tells you what's in which specific depot, and helps verify product details before a sale.

### 02 Does Bling ERP MCP help with tax invoices for different types of goods?

Yes, it handles all major Brazilian formats. You can query the system for electronic product invoices (NF-e), consumer receipts (NFC-e), and service invoices (NFS-e) to ensure you always have the correct legal documentation.

### 03 What if I want to know who owes me money right now?

You can ask about your outstanding receivables. The MCP checks accounts receivable, giving you a clear list of invoices and amounts due from clients across different payment methods like PIX or Boletão.

### 04 Can Bling ERP MCP help me set up new contacts?

Absolutely. You can tell the agent to create a new supplier or client, providing all the necessary information to register them into your system immediately using the `include_contato` tool.

### 05 Does this MCP only handle sales orders, or also purchases?

It covers the full cycle. You can list and review both incoming sales orders (from customers) and outgoing purchase orders (to suppliers), keeping your entire supply chain visible to your agent.

### 06 Is this MCP suitable for small businesses that don't have a dedicated accounting team?







Yes. It takes the most complex tasks—like reconciling general ledgers or checking tax compliance—and puts them into simple, conversational commands, making advanced ERP functions accessible to anyone.

# Go Live in 60 Seconds

Get your connection token from [cloud.vinkius.com](https://cloud.vinkius.com), then paste the endpoint URL into any MCP-compatible client.











YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
 <b>Claude AI</b>	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 <b>Cursor</b>	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 <b>VS Code</b>	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"bling-erp": { "url": "..." }</code>
 <b>Windsurf</b>	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 <b>ChatGPT</b>	Settings → Tools & plugins → Add MCP server → Paste endpoint
 <b>Gemini</b>	Extensions → Add MCP Server → Paste endpoint URL

## ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  **Ask ChatGPT** 
-  **Ask Claude** 
-  **Ask Perplexity** 
-  **Ask Gemini** 
-  **Ask Grok** 

READY TO CONNECT

# Bling ERP is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

[Start at cloud.vinkius.com](https://cloud.vinkius.com) →

[vinkius.com](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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### DOCUMENT INFORMATION

Generated	June 2026
MCP Server	Bling ERP MCP
Server ID	019d755e-611d-72aa-8058-589dd070e4be
Platform	Vinkius Cloud for AI Agents
Endpoint	<a href="https://edge.vinkius.com/{token}/mcp">https://edge.vinkius.com/{token}/mcp</a>

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