

SOLUTION BRIEF · AI BUILDERS

Your AI agent can now book flights. Real airline NDC, in natural language.

PolarHub MCP is a hosted MCP server that gives any MCP-compatible LLM agent transactional airline booking — **15 tools, 4 grounded resources, 14 verified carriers**, all over the standard MCP Streamable HTTP protocol.

01 Why MCP, why now

Model Context Protocol gives LLM agents a standard way to discover and call external tools. Most MCP servers today wrap simple read-only data sources — file systems, databases, internal APIs.

PolarHub MCP is different. It exposes a **transactional booking surface** — search, pricing, seat selection, ancillary services, booking, retrieve, change, cancel — against real airline NDC content via HaloSync's PolarHub NDC engine. Plug an MCP-compatible agent into PolarHub MCP and it does not just answer travel questions — it **books, services, and refunds**.

02 What you get

15
TRANSACTIONAL TOOLS

Prime 6 + Post-Booking 9.
AirShopping → OrderCreate
→ OrderCancel.

04
GROUNDING RESOURCES

URI-addressable carrier
matrix, offers, orders,
seat maps.

14
VERIFIED CARRIERS

SQ · AY · AF · KL · EK · LH · TK ·
TR · QR · BA · AA · AS · LX · OS.

01
ENDPOINT, ANY HOST

Streamable HTTP + static-
header auth. Claude ·
Cursor · Codex.

- **Stateful sessions over Streamable HTTP.** Server issues `Mcp-Session-Id` on first response; multi-step booking workflows persist offers, transactions, and order context across turns.
- **Production-grade workflow safeguards.** 2-Phase Post-Booking (`order_prepare` → user-confirm → `order_confirm`) prevents accidental commits. Service-First ordering enforces NDC airline rules when both `select_service` and `select_seat` are needed.
- **Connect from any MCP-compatible host.** Claude Desktop, Cursor, Codex, or your own agent runtime — standard streamable-http config + static-header auth (`X-PolarHub-Tenant-ID` / `X-PolarHub-API-Secret`).

03 Three differentiators

DIFF 01
Real NDC, not demo data

Live Sandbox sessions across 11
verified carriers. Full Prime+Post-
Booking on most; Prime-only on LH
/ QR / BA.

DIFF 02
One endpoint, any host

Point Claude / Cursor / Codex /
custom agent at
`mcp.sandbox.halo-`
`platform.net/mcp` with your
Tenant ID. No SDK lock-in.

DIFF 03
Production-grade backend

Built on the same PolarHub NDC
engine that runs Tourvis
(Tidesquare), Korea's leading OTA,
in commercial production.

04 Killer demo – 30 seconds, natural language, real PNR

CLAUDE DESKTOP · POLARHUB MCP 3 TURNS · 3 TOOL CALLS · 1 PNR

USER "Find me a flight from Seoul to Singapore on March 15."

CLAUDE | [calls `flight_search` → renders results]

USER "Show me the price for the second option."

CLAUDE | [calls `flight_price` → renders price breakdown]

USER "Book it under Jane Smith."

CLAUDE | [calls `flight_book` → renders booking summary with PNR]

The LLM handles the language; PolarHub MCP handles the airline.

05 Where PolarHub MCP fits

MCP HOST	Claude Desktop · Cursor · Codex · custom agent	YOUR SIDE
	↓ STREAMABLE HTTP + MCP-SESSION-ID · X-POLARHUB-TENANT-ID / API-SECRET (STATIC HEADERS, NO SIGNING)	
POLARHUB MCP	15 tools · 4 resources · stateful sessions · workflow safeguards	HOSTED BY HALOSYNC
	↓ HMAC-SHA512 SIGNED · SERVER-SIDE · TRANSPARENT TO CLIENT	
POLARHUB NDC ENGINE	Multi-airline integration · in commercial production since 2019	HALOSYNC
	↓ CARRIER-NATIVE NDC SCHEMAS (17.2 / 21.3 / VENDOR VARIANTS)	
AIRLINE NDC	14 carriers per Carrier Support Matrix · 11 verified Sandbox	AIRLINE OPERATED

06 Supported airlines (Sandbox)

AIRLINE	CODE	PRIME	POST	AIRLINE	CODE	PRIME	POST
American Airlines	AA	●	–	Lufthansa	LH	●	–
Alaska Airlines	AS	●	–	Swiss Air	LX	●	–
Air France	AF	●	●	Qatar Airways	QR	●	●
Finnair	AY	●	●	Austrian Airlines	OS	●	–
British Airways	BA	●	–	Singapore Airlines	SQ	●	●
Emirates	EK	●	●	Scoot	TR	●	·
KLM	KL	●	●	Turkish Airlines	TK	●	●

Sources: `polarhub-mcp-client` README (verified Sandbox subset, 11 carriers) + HaloSync's official Carrier Support Matrix (full PolarHub coverage, 14 carriers). ● = supported · – = not yet · · = partial.

07 Proof points

- **15 tools** mapped to IATA NDC ops – AirShopping · OfferPrice · OrderCreate · OrderChange · OrderRetrieve · OrderReshop · OrderQuote · OrderCancel · ServiceList · SeatAvailability.
- **4 URI-addressable resources** grounding LLM responses in live PolarHub data – carrier capabilities, cached offers, order details, seat maps.
- **Stateful sessions** via `Mcp-Session-Id` · **Streamable HTTP** transport · **HMAC-signed** backend (server-side).
- **Distribution roadmap** – listings on Anthropic MCP Server Registry, mcp.so, Smithery.ai, Glama; `@halosync/polarhub-mcp` on npm.

08 Get started in 3 steps

- 01

Subscribe.

Email contact@halocorp.kr with your company name and use case. Receive Sandbox Tenant-ID and API-Secret.

10 MIN
- 02

Export credentials & drop in config.

Set POLARHUB_TENANT_ID + POLARHUB_API_SECRET, then add the streamable-http block to your host.

5 MIN
- 03

Restart your host.

Your agent now has all 15 booking tools and 4 grounded resources.

1 MIN

```

~/ .CONFIG/CLAUDE_DESKTOP_CONFIG.JSON STREAMABLE-HTTP
{
  "mcpServers": {
    "polarhub": {
      "url": "https://mcp.sandbox.halo-platform.net/mcp",
      "transport": "streamable-http",
      "headers": {
        "X-PolarHub-Tenant-ID": "${POLARHUB_TENANT_ID}",
        "X-PolarHub-API-Secret": "${POLARHUB_API_SECRET}"
      }
    }
  }
}
# ${ENV_VAR} pulls from shell - secrets never live in the config file.
# HMAC signing is performed server-side; the host only forwards static headers.
    
```

09 Reference client & platform modules

polarhub-mcp-client is the open-source reference implementation – Node.js bridge + React frontend. Provider-agnostic agent loop (Gemini · Bedrock · OpenAI legacy), per-provider session memory, real-time WebSocket tool-event streaming. MIT-licensed under HaloSync’s Public Beta program.

- PolarHub**

Multi-airline NDC and GDS connectivity hub. The integration engine behind PolarHub MCP.
- Albus**

Tenant management, credential issuance, route control, usage analytics.
- Luna**

No-code B2B booking portal for travel sellers without development resources.

10 How to subscribe

AVAILABLE NOW

Sandbox onboarding

Email contact@halocorp.kr with company name and use case. The team issues Tenant-ID + API-Secret. Automated self-service sign-up in progress.

ROADMAP

AWS Marketplace + OAuth 2.0

Production environment opening; OAuth 2.0 / Bearer JWT replacing static headers (PKCE, multi-region Cognito).
 Post-booking expanding to LH / QR / BA. Timeline shared on request.

11 Try it now · Star us · Talk to us

MCP SERVER	mcp.sandbox.halo-platform.net/mcp
REFERENCE CLIENT	github.com/HaloSync-Aggregator/polarhub-mcp-client
API DOCS	doc.halo-platform.net
CARRIER MATRIX	doc.halo-platform.net/carrier-support-matrix-1541959m0
DIRECTORIES	mcp.so · Smithery.ai · Glama (coming soon)
EMAIL	contact@halocorp.kr