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REGIONAL ENGLISH MATERIAL · HIGHBYTE INTELLIGENCE HUB 4.5 BETA FOCUS

Industrial AI & MCP Service Blueprint

How to expose curated industrial context to AI agents without losing governance, traceability, or plant-floor control.

HighByte | ASP Dijital | Industrial AI | MCP | i3X

- Use HighByte MCP Services as the controlled industrial context boundary, not as an unmanaged direct tunnel into OT.
- Expose read, query, and callable-pipeline tools based on roles, API keys, tags, and use-case scope.
- Pair AI for DataOps with DataOps for AI: use AI to accelerate model and pipeline creation, then use HighByte to serve trusted data to agents.

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EVIDENCE

Industrial AI & MCP Service Blueprint

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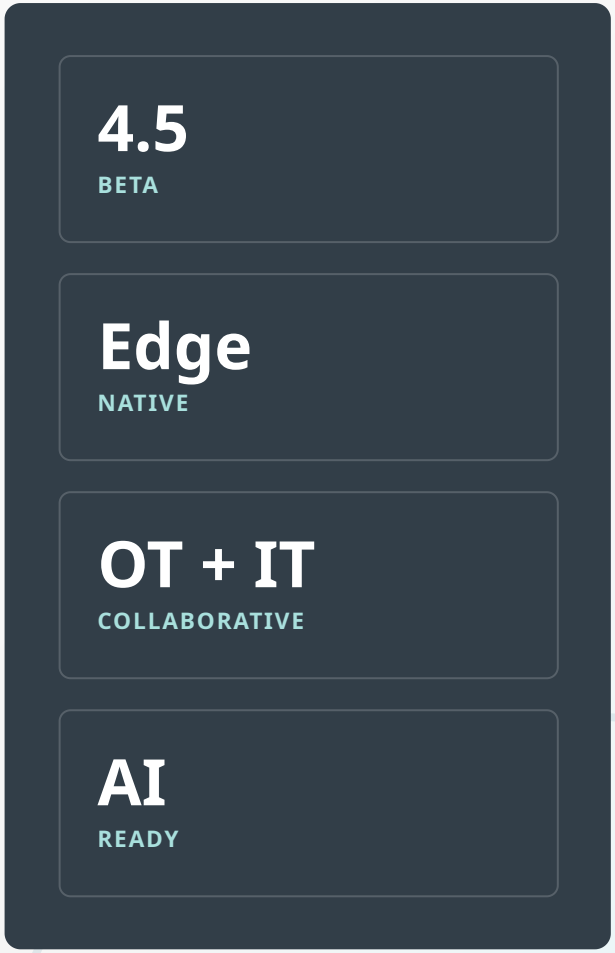
- The HighByte user guide describes MCP Services with Streamable HTTP support and user/API-key based authentication.
- MCP tools can expose system, project, source, namespace, and pipeline-trigger capabilities depending on enabled tool groups.
- The 4.5 Beta release adds configuration graph MCP tools and new AI Agent interfaces for model, instance, input, and connection workflows.



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4.5 ADDITIONS TO EMPHASIZE

HighByte Intelligence Hub 4.5 Beta focus

config_graph_describe, config_graph_get_schema, config_graph_read_cypher, and config_graph_read_sql for project relationship insight.

AI Agents for generating Models, Instances, and Inputs and browsing Connections.

Dictionaries to keep agent-facing answers consistent when codes, states, materials, or asset names change.

Pipeline and Flow improvements that reduce friction when callable pipelines become controlled AI tools.

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REFERENCE FLOW

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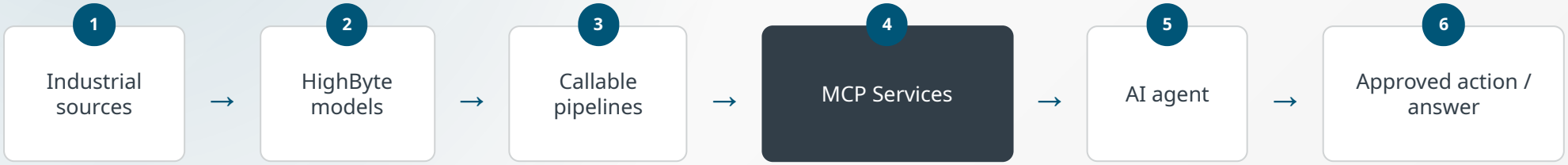

OT

PLC, SCADA, Historian, MQTT, OPC UA, SQL, files

Industrial DataOps

Connect, model, transform, govern, observe

IT / AI

UNS, REST, i3X, MCP, cloud, BI, AI agents

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90-DAY ROLLOUT

Recommended play

01

Define the agent boundary: read-only, assisted write, or action-triggering.

02

Publish only purpose-built tools with explicit descriptions, narrow inputs, and tagged access.

03

Use MCP config graph tools to help engineers inspect configuration relationships before generating changes.

04

Measure every interaction: tool called, source accessed, payload returned, user, and business decision made.

The first MCP pilot should answer a real operational question before it triggers an action. Trust is earned by transparent reads before controlled writes.

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SOURCE BASIS

Prepared by ASP Dijital for regional HighByte conversations

- HighByte Intelligence Hub Version 4.5 Beta release notes, published June 08, 2026.
- HighByte User Guide pages for MCP Services, i3X Server, AI connections, Flow triggers, Smart Query, and Central Hub.
- Local HighByte 2025/2026 partner materials, brand guidelines, solution brief, messaging document, and customer case studies.
- ASP Dijital brand media kit and local ASP Dijital logo assets.

Official URLs

highbyte.com/resources/release-notes/version-4-5-beta
guide.highbyte.com/configuration/servers/mcp/
guide.highbyte.com/configuration/servers/i3x/
guide.highbyte.com/configuration/connect/connections/ai/openai/

Positioning guardrail

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