

AI-Powered Testing Automation with Azure Foundry

Unify, Automate, and Scale Quality Assurance with Azure Foundry & AI

DynaTech's AI-Powered Testing Automation Accelerator leverages **Azure Foundry, Azure OpenAI, Model Context Protocol (MCP), and intelligent browser automation** to modernize Dynamics 365 testing.

It enables functional experts to author, execute, and maintain automated test cases using **natural language** — eliminating scripting dependency while ensuring resilient, secure, and scalable automation across QA, UAT, and Pre-Production environments.



With this solution, businesses can



Create automation without coding expertise



Reduce regression cycles with AI-driven execution



Maintain stable test suites with self-healing intelligence



Strengthen governance with secure, enterprise-ready controls



Scale testing as D365 environments expand

Key Features



Natural Language Test Creation

- Write test cases in plain English
- No coding required
- Business-driven automation ownership
- Easily adaptable to changing requirements



Self-Healing AI Engine

- 3-tier AI memory system
- Context-based element detection (position, text, semantics)
- Automatic healing of broken selectors
- Stable test suites across D365 updates



22+ MCP Tools (Complete Virtual User)

- Simulates clicks, keyboard input, dropdowns, uploads, dialogs
- Built on Playwright
- Cross-browser compatibility
- End-to-end business process coverage
- Parameterized, data-driven execution



Enterprise Security

- Fernet encryption for LLM credentials and API keys
- JWT authentication for secure access
- Ephemeral Docker isolation for execution environments
- Bring Your Own Key (BYOK) support
- Private Azure Foundry deployment support



Key Features



Analytics Dashboard

- Real-time execution monitoring
- Built-in analytics for execution trends
- Test stability insights
- Instant ROI tracking
- Data-driven quality assurance decisions

Technology Stack

AI & Platform



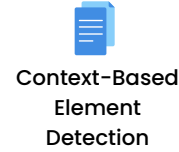
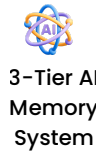
Automation & Orchestration



Execution Engine



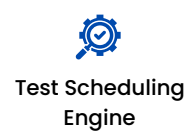
Intelligence Layer



Security



Integration & Roadmap



Our Impact in Numbers

500+

In-house
Masterminds

100+

Clients
Worldwide

150+

Successful
Dynamics 365
Implementations

98%

Client
Retention Rate