ForexTerminals — Pulling Live Crypto Data from MEXC

How the MEXC Exchange API feeds 24/7 crypto data into the game's Council AI — explained with MQL5 article #24605, "Crypto Exchange Integration with MQL5 (Part 1): Connecting to MEXC Futures" (Ruben Blanco, 30 Oct 2026)

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Why MEXC? — The 24/7 Problem

Forex and index markets close on weekends and overnight, but crypto never sleeps. The game's Council of Fifteen (press Ctrl+2) deliberates on markets around the clock — BTC, ETH, SOL, XRP and more — so it needs a data source that is always open. That source is the MEXC Exchange API: a free, public, no-key REST API that serves prices, candles and contract information for hundreds of crypto pairs 24 hours a day, 7 days a week.

The Article's Method — Connecting MetaTrader 5 to MEXC

The MQL5 article walks through the building blocks every integration needs. Here is each step in plain words, so your friends can follow along even without coding.

Step 1 — Public vs private endpoints

- **Public endpoints:** market data, contract details, order books, funding data and server time — no account, no password, no API key needed. Anyone can call them.
- **Private endpoints:** account balances and actual trading — those require authenticated, signed requests. The article (and the game) work with public data only.
- **Two transport options:** MEXC offers a REST API (simple request → JSON answer, used in this article) and a WebSocket API (a persistent live connection, covered later in the article series).

Step 2 — Allow-list the API address

- **The base URL:** all MEXC requests go to https://api.mexc.com (the futures API's current base domain, per the API's Change Log).
- **One-time terminal setup:** in MetaTrader 5, open Tools → Options → Expert Advisors tab and add "https://api.mexc.com" to the list of URLs allowed for WebRequest(). Without this, the terminal blocks every outgoing request for safety.
- **In the game:** this step is already done for you — the game's own Python bridge (Hermes, port 8888) calls MEXC directly; no terminal configuration needed.

Step 3 — Reading the JSON answers

- **JSON in one line:** the API answers in JSON — a structured text format of numbers, strings, booleans, objects and arrays. Every integration must parse it.

- **The JSON library:** the article uses the MQL5 CodeBase library "JSON Serialization and Deserialization" (by sergeev, v1.12) and its CJAVal class: Deserialize() to turn the raw text into an object, operator[] to reach fields and array elements, Size() for array lengths, and converters like ToInt/ToLong/ToDbl/ToBool/ToStr.
- **Safe conversions (the smart part):** the authors added overloaded converters that verify the JSON value's type before converting — so a missing field can never masquerade as a valid 0, and an integer is converted to double only when it can be represented exactly (respecting the double's 53-bit precision limit). Silent wrong-data bugs, prevented.

Step 4 — One reusable Request() function

- **What it does:** every public MEXC call follows the same pattern — build the URL (endpoint + query), send an HTTP GET with WebRequest(), convert the bytes to UTF-8 text, deserialize the JSON, then validate the common MEXC response fields: success must be true, code must be 0, and on error a message field explains what went wrong. The article wraps all of that into one Request(endpoint, query, data) function so each example stays tiny.
- **The data field:** on success the payload lives in a data field; each endpoint defines its own parsing function (e.g. ParseServerTime, ParseTransferableCurrencies) that type-checks the payload before using it. An empty list is NOT an error — parsing only fails when the structure does not match expectations.

Step 5 — The two example endpoints

Endpoint	What It Returns	Rate Limit (per docs)
/api/v1/contract/ping — Get Server Time	The MEXC server time as a Unix timestamp in milliseconds — useful for comparing the exchange's clock with your terminal's clock.	20 requests every 2 seconds
/api/v1/contract/support_currencies — Get Transferable Currencies	The list of currencies supported by the MEXC Futures transfer system, returned as an array of names.	Check the docs before automating

- **Rate limits matter:** every endpoint documents how many requests you may send per time window. Exceed them and the exchange rejects or temporarily restricts you — always check the limits and the API Change Log (endpoints and formats change over time) before automating.
- **Errors are readable:** the API documents its error codes; a failed response prints HTTP status + application code + the message from the exchange, so you always know why a call failed.

How the Game Uses MEXC — The Council's Crypto Feed

- **The Hermes Bridge:** the game's Council server (port 8888, opened with Ctrl+2 → The Chairman) pulls its 24/7 crypto candles straight from MEXC's public klines endpoint: https://api.mexc.com/api/v3/klines with parameters symbol, interval and limit — the same public-endpoint principle as the article, implemented in Python instead of MQL5.

- **Timeframes:** MEXC's native intervals (1m, 5m, 15m, 30m, 60m, 4h, 1d, 1W, 1M) are mapped to the game's timeframes (M1…MN1), so the Council's signature M15 analysis works for crypto exactly as it does for forex.
- **Caching:** each symbol+timeframe answer is cached for a short while (a cache TTL), so the 15 deliberating agents never hammer the exchange with duplicate requests — the same "respect the rate limits" discipline the article teaches.
- **Candle pipeline:** raw MEXC klines (open, high, low, close timestamps) are aggregated and trimmed to the last 30 candles of closes/highs/lows — exactly the shape of market briefing the debate architecture (article #21690) feeds to Victor, Maria and Alexei.
- **No keys anywhere:** just like the article's public endpoints, all of this runs without any MEXC account or API key — it is read-only public market data.

Try it with your friends

- **Press Ctrl+2** (or the 🏛 Chairman button) to open the Council of Fifteen deliberation panel.
- **Ask about crypto:** type BTC, ETH, SOL or XRP into the box and press Enter — the answer is built from live MEXC candles the bridge just pulled.
- **Ask for a summary:** type "STATUS" or "WHAT TO DO" for an all-pairs consensus that mixes traditional markets with the MEXC crypto feed.
- **Compare sources:** the reply's data shows its source — MEXC entries prove the 24/7 feed is live even when forex is closed for the weekend.

Method summarized from MQL5 article 24605 · In-game integration facts from the live Hermes bridge (hermes_bridge.py) · November 23, 2026 · v4.06