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### Konect MapInfo Pro Plugin Integration

*Version 1.2 – Updated 11 August 2026*

## Overview

The Konect MapInfo Pro Plugin provides MapInfo Pro v23.2 users with the same end-to-end Konect workflows available in the Konect ArcGIS Pro Geoprocessing Toolbox and the Konect QGIS Integration plugin. The plugin is built by GBM Konect Presales and enables GIS users to download open data, import layers, export datasets, generate photo reports, build Konect pick lists, and interact with the Konect API – all from within MapInfo Pro.

Dependencies include:

- Access to a Konect API key
- Installation of the Konect CLI tool on a Windows machine. Default installation path is C:\konect\konect-cli
- MapInfo Pro 23.2 (Windows)
- MapBasic 23.2 IDE – to compile the MapBasic wrapper (.mb → .mbx). GBM Konect will provide the compiled MBX
- GDAL / ogr2ogr – bundled with MapInfo Pro at ...\\MapInfo\\Professional\\gdal\\ogr2ogr.exe
- Python 3.x – bundled with MapInfo Pro 23.2. No external Python packages required

Please contact [sales@globalgbm.com](mailto:sales@globalgbm.com) to request access to this plugin for your MapInfo Pro environment.



### Installation

Follow these steps to install and register the Konect MapInfo Pro Plugin.

#### Step 1 – Copy the Plugin Folder

Copy the plugin folder to the MapInfo Pro Tools directory:

C:\Users\<Username>\AppData\Local\MapInfo\MapInfo\Professional\2300\Tools\Konect\_MapInfo\_Plugin\ (replace <Username> with your Windows username)

The folder must contain the following files:

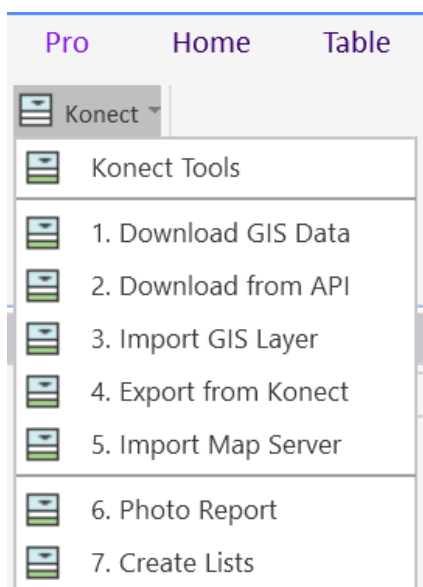
- konect\_mapinfo\_plugin.py – main Python plugin
- Konect\_MapInfo\_Plugin.mbx – compiled MapBasic wrapper (compiled from .mb)
- Konect\_MapInfo\_Plugin.mxt – Tool Extension manifest
- icons\ – optional icon files

#### Step 2 – Register the Plugin via Tool Extensions

Register the plugin so it loads automatically each time MapInfo Pro starts:

1. In MapInfo Pro, navigate to Home → Tool Extensions → Registered tab
2. Click the dropdown arrow and select Add Tool
3. Browse to Konect\_MapInfo\_Plugin.mbx and click OK
4. Tick Autoload to load the plugin on every start

Once registered, a Konect menu appears in the MapInfo Pro menu bar and a Konect group appears on the Home ribbon tab, with a button for each of the seven tools.



#### Step 3 – Accessing Tools via the Legacy Menu

In addition to the Home ribbon group, all seven tools are accessible from the Konect menu in the MapInfo Pro menu bar. This menu is registered by the MapBasic wrapper and is



equivalent to the Legacy tab in earlier MapInfo versions. Users who prefer the classic menu bar interface can access all Konect functionality from here without using the ribbon.

The Konect menu contains the following items:

- Download GIS Data for Konect
- Download Data from Konect API
- Import GIS Layers to Konect
- Export Data from Konect
- Import ESRI Map Server to Konect
- Konect Dataset Photo Report
- Create Konect Lists from GIS Data

### Tool 1 – Download GIS Data for Konect

This tool provides on-demand access to ESRI feature services and is the equivalent of the Download Open Data for Konect tool in ArcGIS Pro. It allows MapInfo Pro users to access openly available GIS data and convert it to MapInfo TAB format. Two download modes are available, selected from a dialog on launch:

- *Open Data Catalog* – Browse Australian state and territory agencies and their published ESRI Feature Services, download features, and open the result as a MapInfo TAB layer. As the Konect Manager does not offer this option, this tool speeds up data loading for Konect users.
- *Add From Path* – Enter a Feature Service or dataset URL from any organisation not listed in the catalog to download and open as a MapInfo TAB layer. The output TAB file is named after the service.

All data is converted to MapInfo TAB format via GDAL ogr2ogr (bundled with MapInfo Pro) and opened automatically in the active MapInfo session.

### Tool 2 – Download Data from Konect API

This tool downloads features directly from the Konect API using your API key. It is equivalent to the Download Data from Konect API tool in ArcGIS Pro. No CLI installation is required for this tool.

Features include:

- Enter your Konect API key (masked in the UI to prevent accidental exposure in screenshots)
- Select the Konect environment and dataset to download
- Choose download amount: *First 1,000 features* (recommended for data preview) or *All features*
- Features are paged from the API, normalised to GeoJSON, converted to a timestamped MapInfo TAB file, and opened automatically in MapInfo Pro



### Tool 3 – Import GIS Layers to Konect

This tool imports a MapInfo TAB or Shapefile into a Konect environment via the Konect CLI `shpimport` command. It is the MapInfo equivalent of the Import ESRI GIS Layers into Konect tool in ArcGIS Pro.

Features include:

- Browse and select a MapInfo TAB or Shapefile to publish
- Enter your Konect API key, environment name, and dataset name (which can differ from the layer name)
- Define an import action: *new* (create a new dataset), *replace* (overwrite an existing dataset), *append*, *append\_update*, *update\_matching*, or *update\_nominated*
- Define the Konect CLI folder location (defaults to `C:\konect\konect-cli`)
- TAB files are automatically converted to SHP via `ogr2ogr` before import. Smart action retry is included: if the dataset already exists on a “new” action the tool retries with “replace”, and vice versa

Note: changes to table structures once published should be managed in Konect only. It is the client’s responsibility to use other CLI functions with custom scripts as required.

### Tool 4 – Export Data from Konect

This tool exports a dataset or saved query from Konect via the CLI. It is equivalent to the Export Data from Konect tool in ArcGIS Pro, but with extended format support and photo export capability.

Supported export formats:

- ESRI Shapefile, GeoJSON, MapInfo TAB, KML, GeoPackage – spatial formats opened automatically in MapInfo Pro on export
- CSV and Konect Package (KPK) – non-spatial formats saved to the output folder

Additional features:

- Photo attachment export – tick the photo prompt to include photos and documents in subfolders alongside the export. An optional separate photo output folder is supported
- Note: exports may be restricted based on dataset names containing special characters. Queries can also be exported and re-imported as separate datasets

### Tool 5 – Import ESRI Map Server to Konect

This tool imports one or more layers from an ESRI MapServer REST endpoint directly into Konect. It provides the same functionality as the equivalent ArcGIS Pro tool and supports multi-layer selection in a single operation.

Workflow:

1. Paste a MapServer root URL (e.g. `https://host/arcgis/rest/services/ServiceName/MapServer`)



2. The tool queries the service and presents a layer picker – select one or more layers to import
3. Optionally supply a Where Clause to filter features (default 1=1)
4. Enter Konect credentials, a dataset base name, import action, and CLI folder, then run
5. Each selected layer is imported as a separate Konect dataset named `<BaseName>_<LayerName>`

The tool uses a three-tier download strategy to maximise compatibility across ESRI services: GeoJSON paging, ESRI JSON, and ESRI JSON with outSR=4326 fallback. Smart action retry is included for each layer.

### Tool 6 – Konect Dataset Photo Report

This tool pages through every record in a selected Konect dataset, auto-detects photo/attachment fields on each record, counts photos per record, and writes a CSV report – useful for auditing photo coverage across a dataset. It is the MapInfo equivalent of the Konect Dataset Photo Report tool in ArcGIS Pro and QGIS. Rather than a form-style dialog, the tool steps the user through a sequence of prompts:

- Enter your Konect API key (masked), then select the Environment/Account and Dataset from the choices returned by Konect
- Choose an Output Folder for the CSV report – the report file is named after the dataset automatically
- Automatically detects attachment fields by inspecting each record's field names and values (matching common photo/image/attachment keywords, or list-of-object fields containing URL-like keys), rather than relying on a fixed field name
- For each record the report captures a record ID, the Konect record ID, a best-guess record name (drawn from common name-like fields, or the first short text value if none match), photo count, photo IDs, and the date/time the report was generated
- On completion, the tool reports total records processed, records with at least one photo, and the overall photo count, and offers to open the CSV immediately

### Tool 7 – Create Konect Lists from GIS Data

This tool creates or updates a Konect pick list directly from the unique values found in a field on a MapInfo TAB or Shapefile, so a dataset loaded from GIS can have its fields backed by a proper Konect List rather than free text. It is the MapInfo equivalent of the Create Konect Lists from GIS Data tool in ArcGIS Pro and QGIS. Because MapInfo Pro's bundled Python has no direct attribute-cursor equivalent, the tool reads field values by converting the input table to CSV via ogr2ogr behind the scenes. The prompt sequence is:

- Browse to a MapInfo TAB or Shapefile, then choose the List Values Field whose unique values become the list's items
- Enter a List Name (Alias) and, optionally, a Default Value (must match one of the field's values)
- Optionally create a child (cascading) list from a second field in the same run, or attach the new list under an already-existing Konect list by entering its List Id and a Parent Values Field



- *Action of create or update* (update requires an Existing List Id)
- Field values are automatically de-duplicated and sorted alphabetically before being sent to Konect; any validation adjustments Konect makes to the submitted values are reported back to the user

### Available Workflows

- Publish MapInfo TAB layers or Shapefiles directly to Konect (Action = new)
- Replace or refresh an existing Konect dataset (Action = replace)
- Download open data from Australian state and territory ESRI feature services and convert to MapInfo TAB for use in Konect
- Import one or more layers from an ESRI MapServer REST endpoint directly into Konect in a single operation
- Download data from the Konect API for preview (first 1,000 features) or full dataset export (no CLI required)
- Export datasets and queries from Konect in multiple formats, with optional photo attachment export
- Generate a per-record photo-attachment coverage report for a Konect dataset
- Create and maintain Konect pick lists directly from the unique values in a MapInfo TAB or Shapefile field