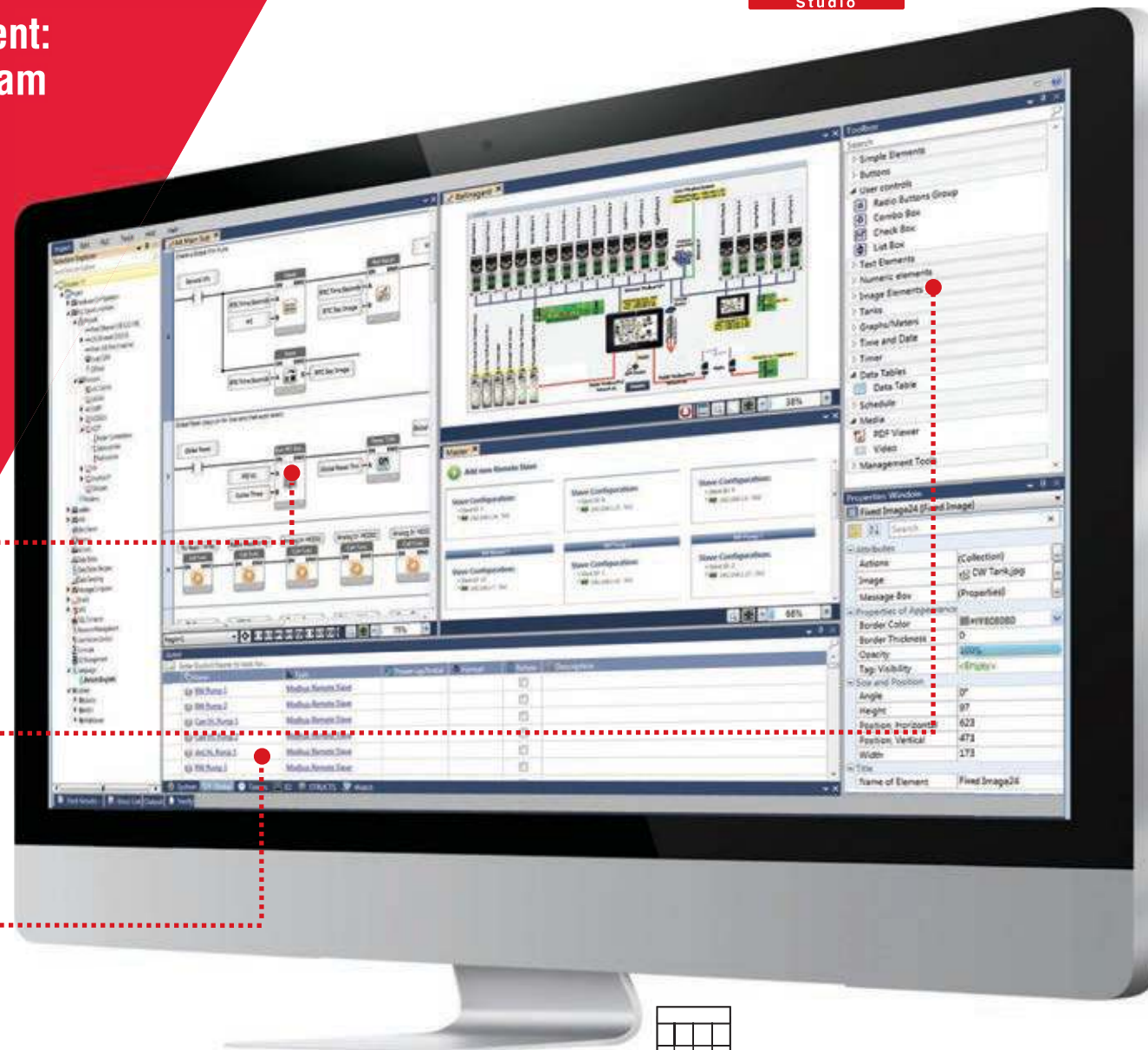# UniLogic®- UniStream®
All-in-One Programming Software

Ultimate All-in-One programming environment: configure hardware, communications, program Ladder, design HMI, web pages and more.

UNILOGIC®
Studio

Build-it-Once …
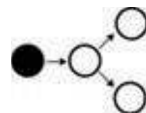Reuse Library: Functions, HMI & Webpages

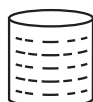**Context-sensitive …**
Toolbox for Ladder, HMI & Web Elements

Power from C …
Structs & C Functions

MQTT
Via MQTT, UniStream bridges between the production floor all the way up to the MES. Supports MQTT as a 'client' that can both publish and subscribe to messages.

Structs - Tag Database on Steroids
You create Structs - groups of data tags of different types organized into a single, logical unit - and reuse them across programs, especially with UDFBs (User Defined Function Blocks). UniLogic's built-in Structs enable you to configure and control hardware and complex functions such as Communications and PID.

Speed Ladder Programming - plus "C" Power
Build your Ladder: drag & drop elements that snap into place, error-free. Use the built-in C Function editor to write C functions. UniLogic means you 'write-it-once': create code to use, reuse, and export across projects.
Create UDFBs (User Defined Function Blocks) - self-contained functions for tasks such as oven control.

Power Data Tools - Data Sampler, Data Tables, Recipes, SQL
Data Samplers record dynamic application data, such as output values, at fixed intervals into files and display it as Trend graphs on the HMI.
Data Tables organize and manipulate data via Ladder, create data logs, implement Recipes, import/export values from/to Excel, allow users to enter/edit data into Data Tables via HMI panel, and more.
NEW SQL Connector: Access SQL databases, run Queries, connect Data Tables to SQL.

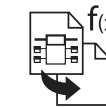**Web Server: Web Pages – No HMTL Required**
Design elegant web pages via a drag & drop interface, identical to the HMI editor.
A rich graphic library is at your disposal.
The Web toolbox offers user controls and widgets, enabling the end user to view and enter application data via any web browser.

Design Beautiful HMI Displays - Stream Video, Audio, PDF
UniLogic's extensive free graphics library and HMI widgets enable you to be a graphic artist. The simple HMI editor supports layers, image transparency, overlap, and rotation. The Toolbox offers drag & drop widgets: Video and Audio players, Data Tables, complex Trend graphs and gauges for the display of run-time values, and more.
New Custom Controls: design controls, store in Library - reuse anywhere!

Build-it-Once, then Reuse - the Ultimate Time Saver
Add your UDFBs, HMI screens, Custom Controls, and Web Pages to the Library. Then, drag & drop them where you need them - UniLogic takes care of the tags. You can import your Library into any project, and share it with others.
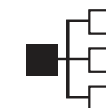
Languages - from Italian to Chinese at the Touch of a Button
UniLogic supports any language that you can type - including Asian languages such as Chinese, Japanese, and Korean. You simply enter translated text into the Language Table Translation. Instantly switch HMI language via user actions or program events.

Built-in Alarms - Easily Boost Application Safety
Compliant with ISA 18.2 standard guidelines for Alarm Management systems in the process industries. Intuitive features allow operators to detect Alarms, analyze them, and take action. Export your Alarm Log via FTP, send it via email, or copy it directly from the controller via a DOK. Alarms feature full multi-language support.

Communications - Configuration not Programming
Incredibly fast, easy to configure and implement, UniStream data communications run independently of Ladder.
A single PLC can contain multiple slave definitions—and multiple master definitions. Communicate with any device: plug-and-play protocols such as MODBUS, CANopen, SNMP, MQTT,and EtherNet/IP.
Use Message Composer for data communications with devices such as frequency converters and bar-code readers via any Ethernet, CANbus or serial 3rd -party protocol. Also supports CANLayer 2, FTP Client/Server, SMS, email, GSM/GPRS modem.