EVA ICS

**UNIFIED IOT AUTOMATION SYSTEM
FOR BOTH SOHO AND ENTERPRISE**

FOR DEVELOPERS
AND SYSTEM INTEGRATORS

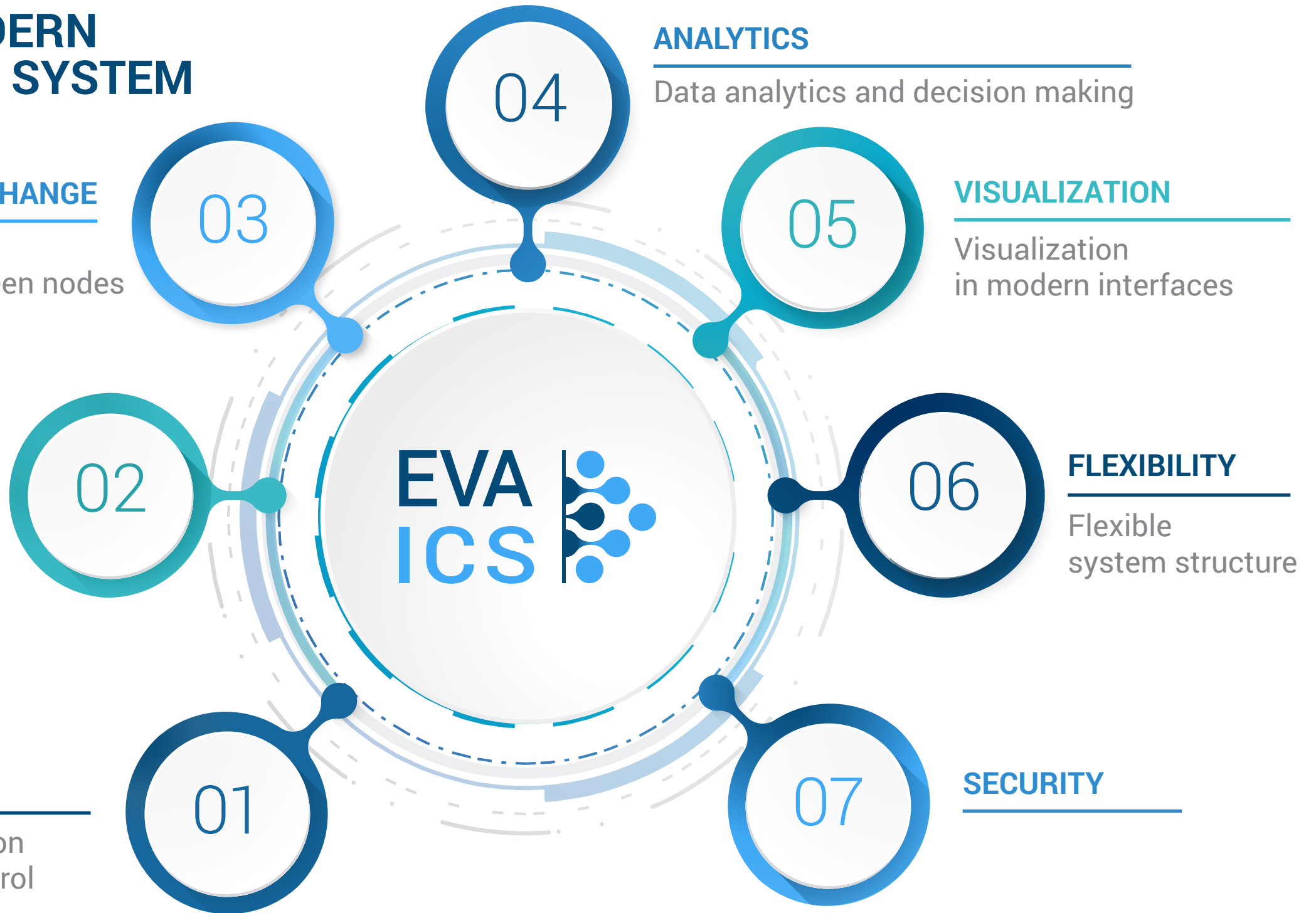www.eva-ics.com

JOBS OF MODERN AUTOMATION SYSTEM

ANALYTICS
Data analytics and decision making

REAL-TIME EXCHANGE
Real-time data exchange between nodes

04

03

VISUALIZATION
Visualization in modern interfaces

05

UNIFICATION
Data and control unification

02

EVA ICS

06

FLEXIBILITY
Flexible system structure

CONTROL
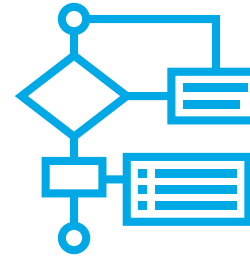Data collection and unit control

01

07

SECURITY

DATA COLLECTION AND UNIT CONTROL

EVA ICS offers 2 powerful ways for controlling and monitoring your equipment:

EXTERNAL SCRIPTS

written in any language – reliable and simple solution to quickly integrate everything you wish

PHI MODULES

– work as fast as your system can do

EVA ICS destroys borders between physical and virtual equipment – monitor and control the local hardware or collect data from external cloud services

EVA Universal Controller can act as a controller for directly attached equipment as well as a gateway for any 3rd party controller connected with **ModBus, SNMP, I2C** or any other protocol.

DATA AND CONTROL UNIFICATION
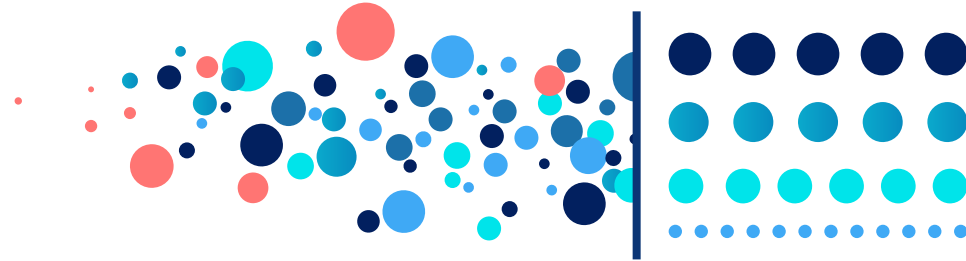
Unlike modern IoT systems which produce gigabytes of noise in data exchange points, **EVA ICS** offers strict data unification, which significantly simplifies analytics and decision making

All system objects are divided into 3 types:

UNITS can be controlled	**SENSORS** can be monitored only	**LOGICAL VARIABLES**

Each type has 2 primary state fields: <u>STATUS</u> and <u>VALUE</u> which's enough for 100% of tasks

With **EVA UNIVERSAL CONTROLLER** you can easily transform any control protocol or data flow to the unified data format.

REAL-TIME DATA EXCHANGE BETWEEN NODES

Don't care about the protocols,
just connect new node to **EVA ICS** cluster and it starts
exchanging data with others

EVA ICS

- Write your own applications to collect data from MQTT and interact with nodes via HTTP/GET, HTTP/POST, HTTP/JSON or MQTT API

- API for everything – anything you can do in local console or interface, your software can perform via API

- Use EVA ICS built-in history engine to obtain and process historical data

VISUALIZATION IN MODERN INTERFACES

• **SFA FRAMEWORK** allows you to build modern interfaces for any setup

• Data for visualization is obtained in real-time via web-sockets and duplicated via **AJAX** to increase interface reliability

• Create interface for your configuration in a few steps:

• Design the interface

• Create HTML for it

• Put JavaScript framework calls for dynamic elements

• Your interface is ready to work

DATA ANALYTICS AND DECISION MAKING

- **EVA SFA** allows collecting all data and controlling every single object from one place

- Connect your own data analytics and decision-making software via **API**

- Use **EVA LM PLC** software controller to perform basic decision-making operations

- Write macros for **LM PLC** in Python with tons of pre-made functions allowing you to obtain any data and send control command to any object

FLEXIBLE SYSTEM STRUCTURE

- Leave mission-critical decision making tasks to hardware logic controllers and program only logic they can't realize

- Replace or duplicate any system parts with your own applications via powerful API

- EVA ICS works with physical objects, you work with logical only, but

- You can define logical level for your setup as deep as you wish

- Move any parts of your systems to cloud and back to local

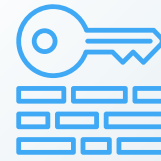- Use EVA IoT Cloud or build your own

The "S" in EVA ICS stands
for security
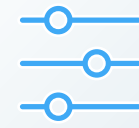
Define access level for any node
to any group or single object

All API calls can be encrypted,
including MQTT API

Depending on your needs, use
user accounts or API keys

Put mission-critical nodes
in local secure network

Calmly move the rest to the cloud
and don't be scared to be hacked

SECURITY

INTEGRATION AND SUPPORT

For any questions about integration, support and partnership contact the developer – AlterTech Group:

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