



Digitized Automation for a Changing World

DIAStudio Smart Machine Suite

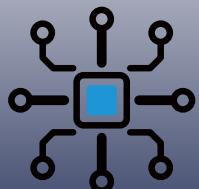
DIAStudio Smart Machine Suite

Save Your Time. Bring Convenience to Your Design.

The increasingly complex applications in industrial manufacturing bring up higher requirements on automation technology regarding performance, functionality and efficiency. Delta develops the **DIAStudio** Smart Machine Suite to fulfill market requirement.

The **DIAStudio** is an integrated engineering and unified platform that helps you to efficiently develop machinery systems by selecting appropriate products, programming, and export. Machine makers can develop an integrated control system using one software. The **DIAStudio** integrates IEC61131-3 programming, parameter configuration, machine tuning, and human machine interface (HMI) settings as an unified engineering platform for Delta's PLCs, HMIs, servo drives & motors, and AC motor drives. It simplifies programming processes, saving time and cost for machine makers in building machinery systems.

Digitalized Platform



Standardized Engineering



Efficiency Flexibility





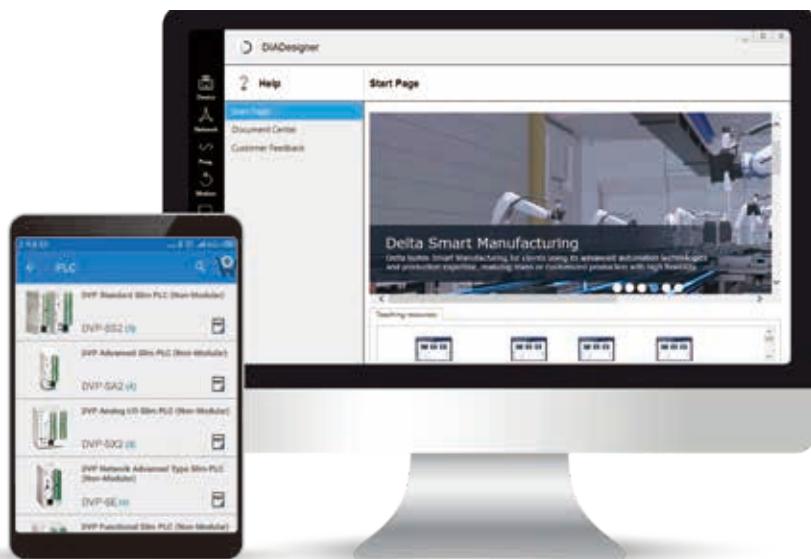
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What is DIAStudio?

DIAStudio

Smart Machine Suite



An all-in-one integrated engineering platform for

*Efficient machinery system development
Product selection
Programming
Configuration
Commissioning
Visualization*

Simplifies the execution of tasks and reduces
system setup and configuration time

DIASelector

Quick, easy and smart selection tool



- Product Selection

DIADesigner

Integrated development & engineering software



- Programming
- Configuration
- Commissioning

DIADesigner-AX

Motion development & engineering software



- Programming
- Configuration
- Commissioning

DIAScreen

Intuitive visualization software



- HMI Programming
- DIADesigner TAG Sharing

Commissioning Features



Parameter Editor



Gain Tuning



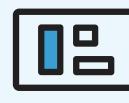
Motion Control Setting



Oscilloscope



Device Setting Wizard



Status Monitoring

What is DIAStudio?

DIADesigner (Development & Engineering) + DIAScreen (Visualization) System

■ DIADesigner supports:

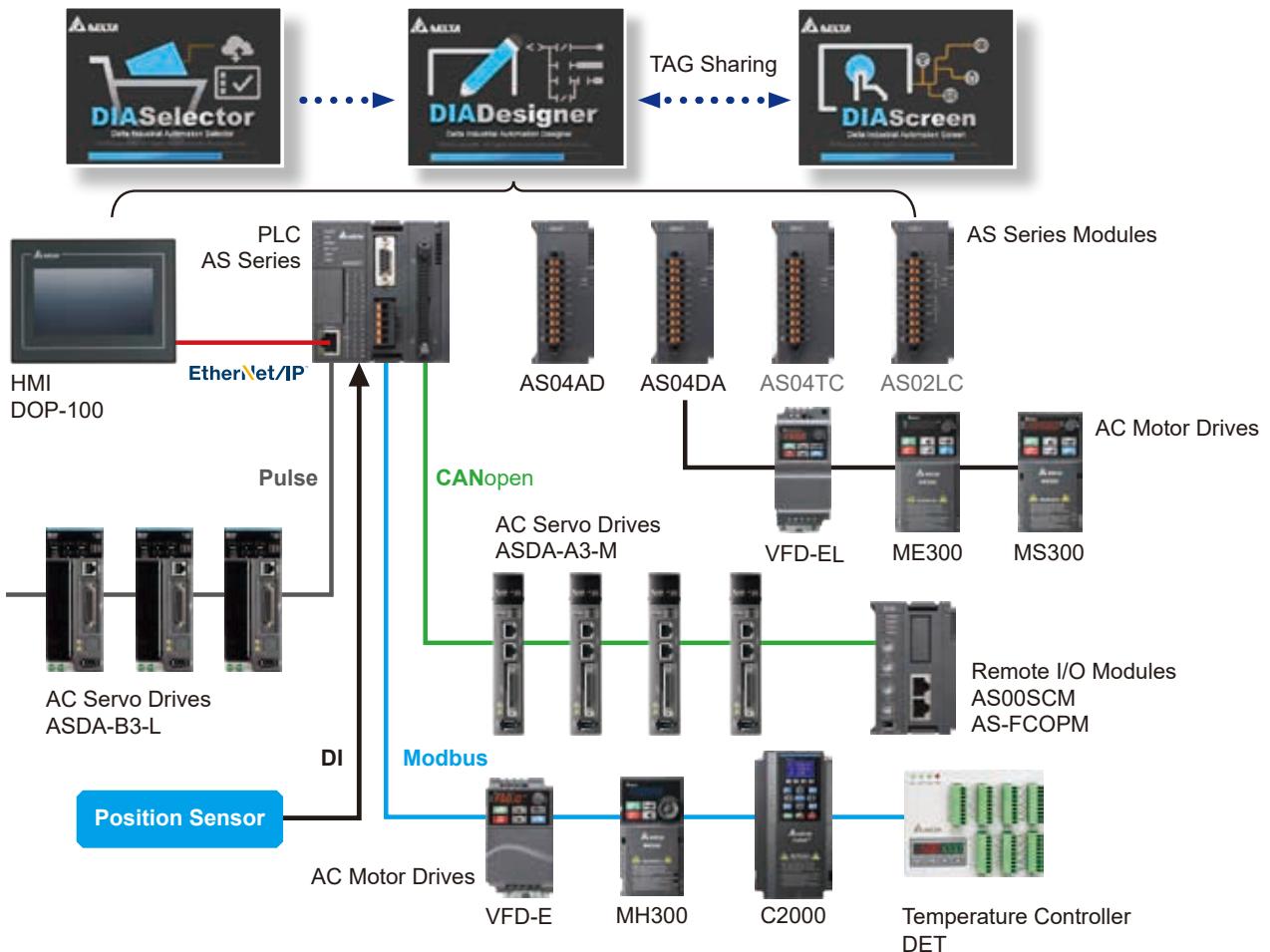
- Controllers: Mid-range PLC AS Series (AS300/AS200/AS100*/AS500E*/AS500C*)
- Motion: AC Servo Drive ASDA-A2/B2, ASDA-A3/B3 (L, M, E*)
- Drives: AC Motor Drive VFD-EL, VFD-EL-C, C2000/CH2000/CP2000/CFP2000, MS300/ME300/MH300 Series
- Remote I/O Modules: AS-FCOPM (CANopen), AS-FEN02 (EtherNet/IP, Modbus TCP)
- Temperature Controllers: DTC, DTE* Series
(* AS100, DTE, AS500E, AS500C, ASDA-A3, and ASDA-B3-E will be supported in the 2nd half of 2021.)

■ DIAScreen supports:

- HMIs & Text Panels: DOP-100 Series, TP Series

■ Fieldbus: Modbus, CANopen, Modbus TCP, EtherNet/IP*

■ Applications: Packaging machines | Electronics manufacturing | Labeling / textile machines



DIA Designer-AX (Motion Development & Engineering) + DIA Screen (Visualization) System

■ DIA Designer-AX supports:

- Motion Controllers:

PLC-based Controller: AX-308E, AX-364EL Series

PC-based Controller: AX-8 Series

- Logic Controllers: AX-300N, AX-324N

- Motion: AC Servo Drive ASDA-A2-E/ASDA-A3-E/ASDA-B3-E Series

- Drives: AC Motor Drive C2000 series, MS300/MH300 Series

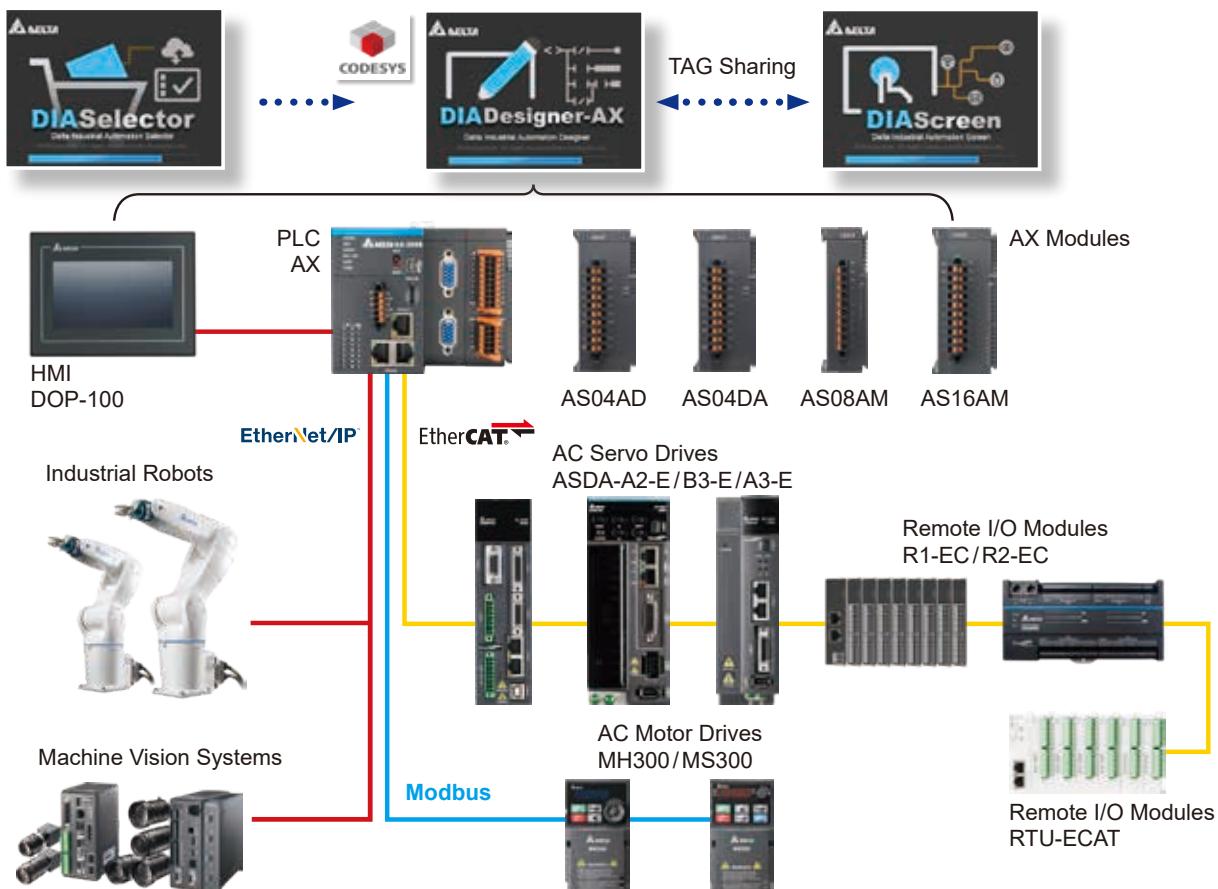
- Remote I/O Modules: RTU-ECAT Series, R1-EC/R2-EC Series

■ DIA Screen supports:

- HMI & Text Panels: DOP-100 Series, TP Series

■ Fieldbus: EtherCAT®, EtherNet/IP®, Modbus, Modbus TCP, OPC UA (Server)

■ Applications: Electronics manufacturing | Material Handling | Logistics | Multi-axis motion control equipment

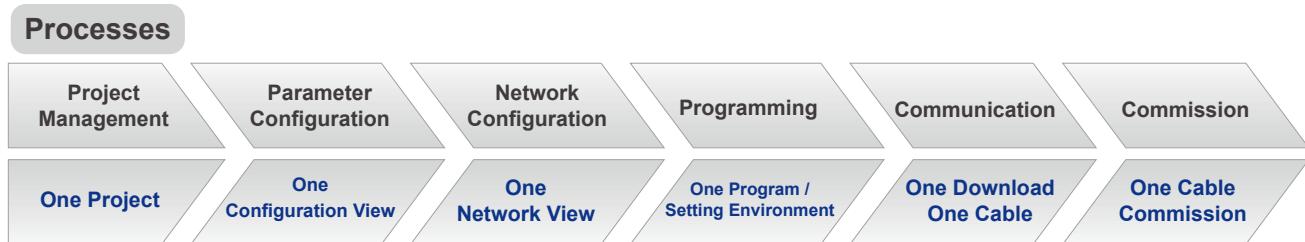


DIADesigner

Integrated Development & Engineering Software

Provides a programming environment for machine system developers to enhance system configuration and development efficiency

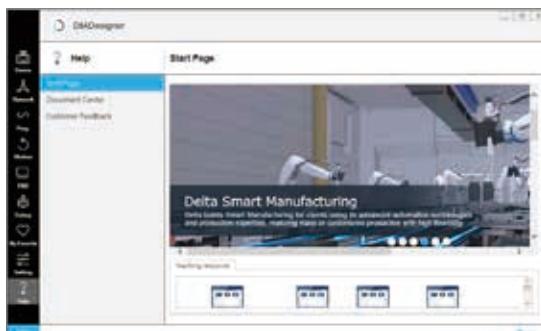
- IEC61131-3 programming environment
- Integrates project, configuration, programming, commission, and monitoring in a simple environment



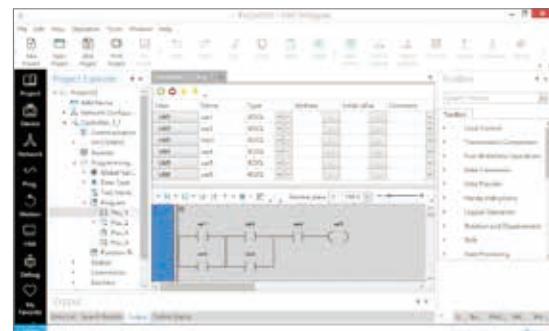
User-oriented Project Management

- Basic designer view: Wizard Design for operation guidance
- Advanced designer view: Complete functions via menus

Basic designer view

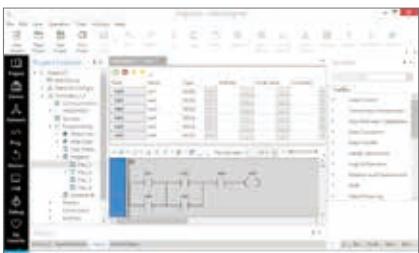


Advanced designer view

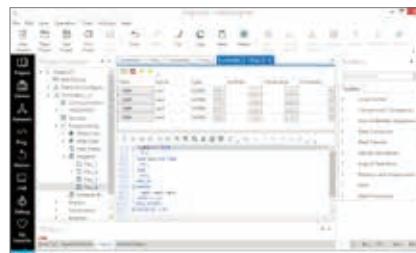


Supports IEC61131-3 Standard Programming Languages

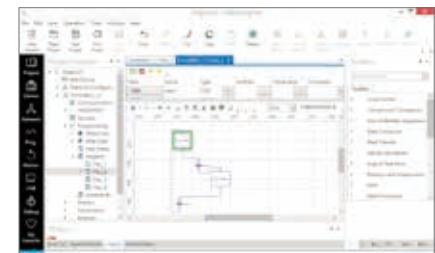
 Ladder Logic



 Structure Text



 Sequence Function Chart





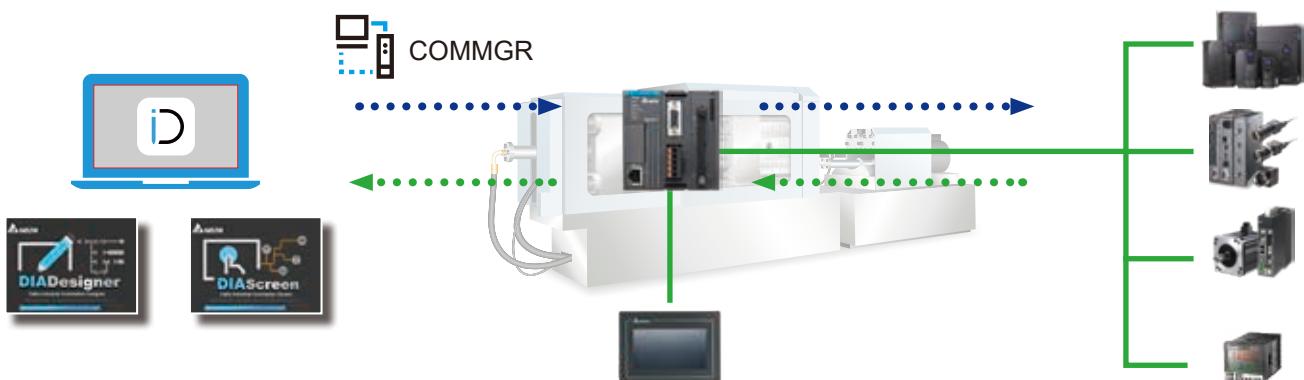
Data Management

- Variable sharing with DIAScreen without import/export



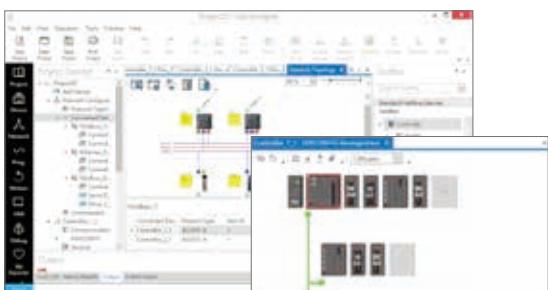
One-Cable Communication

- Integrates multiple protocols in COMMGR
- Requires only one cable to transfer the parameter configuration to the project



Intuitive Topology Configuration

- Supports topology to configure the device protocols in the project via a user-friendly system



Commissioning Tool

- Provides parameter management, gain tuning, motion control setting, oscilloscope, device setting wizard, and status monitoring



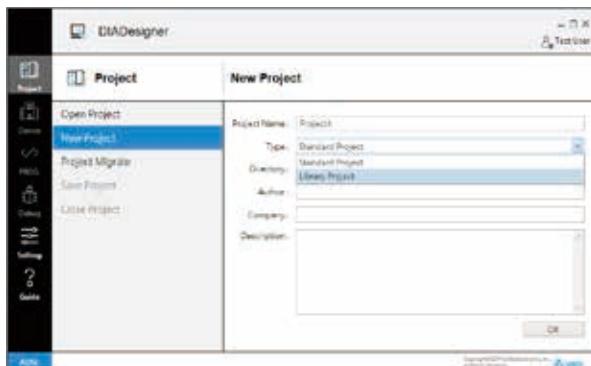
DIA Designer

Integrated Development & Engineering Software

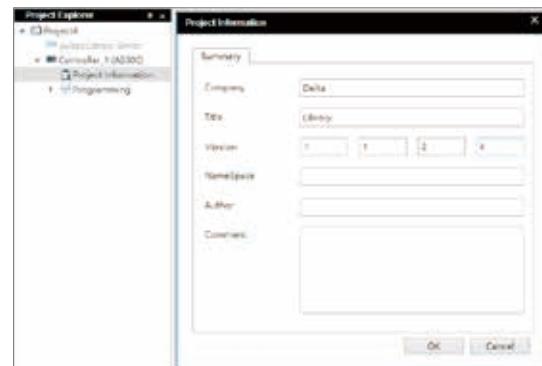


Library Manager

- Proven library manager for the reutilization of application
- Supports a library for HVAC applications
- User-definable library applications



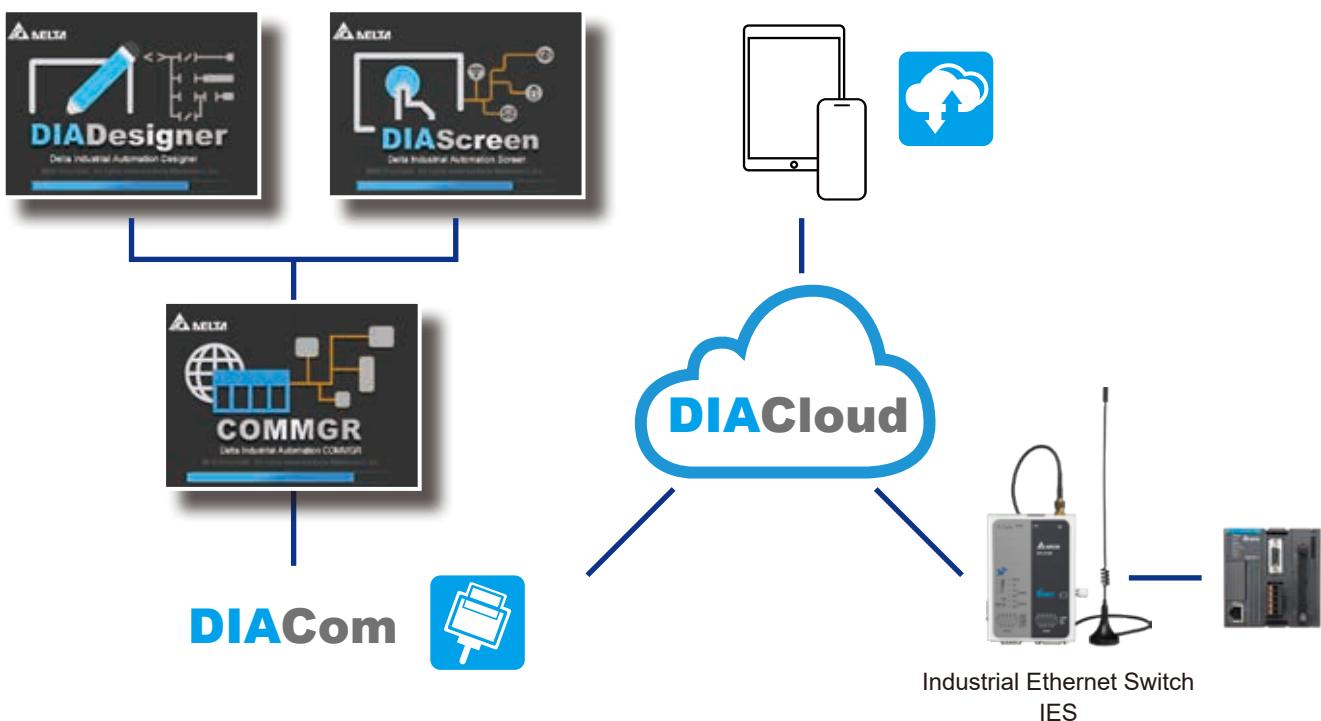
Library Project



Library Management

DIACloud Communication

- Supports DIACloud platform communication via DIACom channel
- Router read/write data from device via DIACloud
- Combines with Delta's cloud routers to construct IoT for more automation applications and upgrades



DIADesigner-AX

Motion Development & Engineering Software



DIADesigner-AX is a programming tool compliant with IEC 61131-3 for Delta's new generation motion controller – AX series. It adopts a large number of application instructions, especially Motion library. The multilingual environment and user-friendly interfaces provide users a convenient and efficient development environment.

- Standard IEC 61131-3 programming and unified integrated software
- Open and modular Platform to allow secondary development for customized functionalities and components by users with industry know-how
- Motion control programming based on standard PLCopen motion control
- Tags Sharing between DIAScreen and AX Series controllers variables sharing for easy operation

Motion Software	Motion Controllers		
PC-Based	PLC-Based	HMI	
Servo Drives	Remote I/O Modules	Motor Drives	
AX-8 series	AX-3 series	DOP-100	
ASDA-A2-E ASDA-A3-E	R1-EC R2-EC RTU-ECAT (EtherCAT Remote I/O)	C2000 Plus MH300 MS300	

DIASelector

Quick, Easy, Smart Selection Tool



Easy product selection using specifications, patterns and key words regarding Delta's controllers, servo drives, motor drives, sensors, and HMIs for various automation projects

- Product specifications / patterns search and comparison
- Supports servo sizing tool with Mechanism Selection
- Product information (catalogs / brochures, manuals, technical documents) for download
- BOM list generation based on projects and sending to personnel by e-mails
- Windows-based interface and mobile application (Android compatible, iOS coming soon)



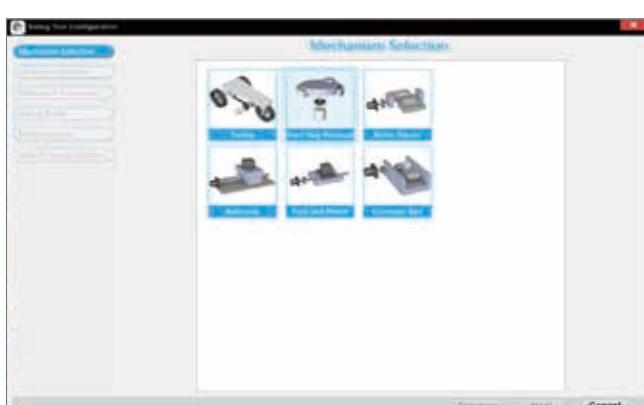
Cross platform: Windows & Mobile App



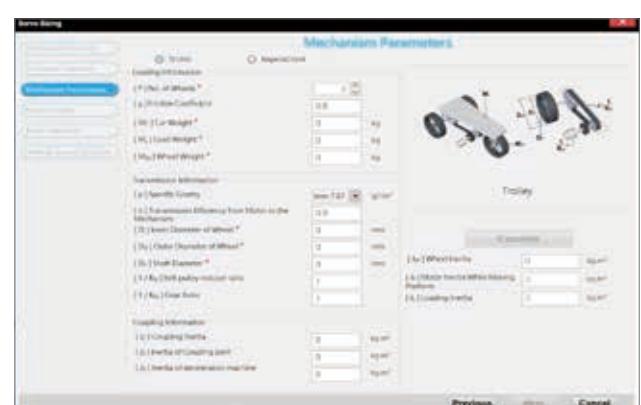
Product Selection

Category	Sub-Categories	Details
Product	Product Catalog	Product Details
Project	Project Catalog	Project Details
Search	Search Criteria	Search Results
Compare	Compare Products	Comparison Results

Product Comparison



Servo Sizing



Mechanism Parameters

DIA Screen

Intuitive Visualization Software



User-friendly HMI visualization software for DOP-100 and TP Series

Abundant Graphics and Smooth Animation

- Built-in element graphics for interface display, suitable for a variety of industrial applications
- Smooth animation technology for realistic visual effects



Advanced Alarm

- Advanced alarm functions for managing machine operations

A screenshot of a software interface showing a table of alarms and a message list. The table has columns for No., Message Content, and Category. A magnifying glass icon points to the second row, which shows 'Temp. too Low • PV is 12'. To the right is a list of messages with the same title.

User Authority Management

- Account & authorization management; provides operation logs

A screenshot of a software interface showing two windows. On the left is a 'Account and Password' table with five entries. On the right is a 'Login' dialog box where a user is entering their account and password.

Auxiliary

DIAStudio Online Service

Website – Access to Information and Service

- Software introduction/download
- Register for software downloads and cloud service



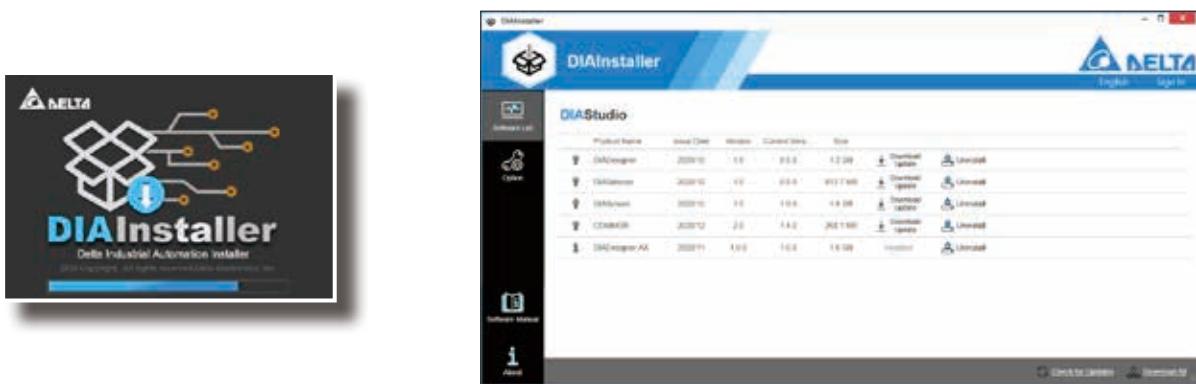
- Online technical discussion to learn different know-how
- Cloud service: file storage



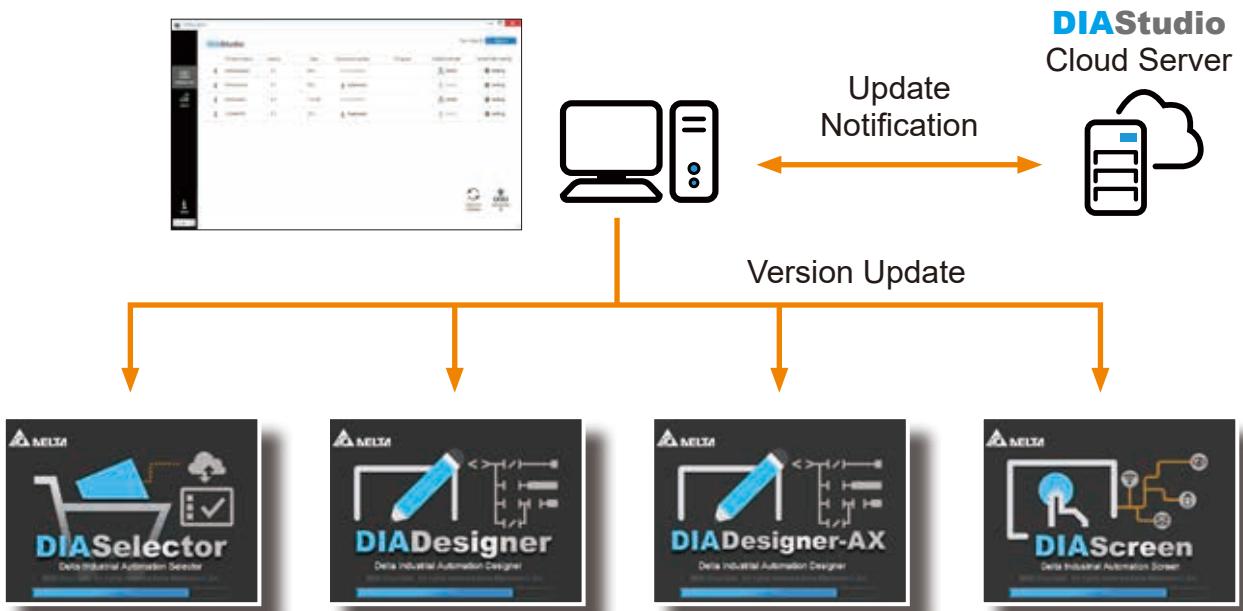
DIAInstaller

Software Download/Upgrade Management Tool

- Software download and installation: version selection/user authority management



- Version update notifications
- Supports manual and automatic version updates



* Note: Please register to download the DIAInstaller.



Smarter. Greener. Together.

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