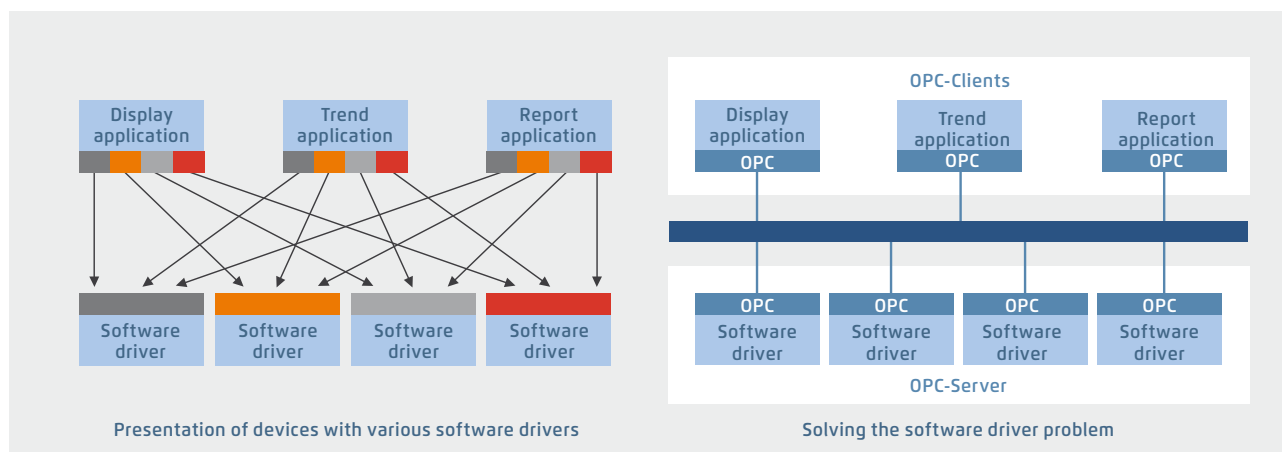# 1.2.3 SBC OPC Server

Providers of various automation systems trigger the communication between the user and automation through dedicated manufacturer-specific protocols. Each device requires its own software installation on the operator's computers/end devices. If several different devices are to be accessed with one end device, this generally requires a very complex PC installation. With the following consequences: Complex systems, high costs for investment and maintenance as well as limited flexibility for changes/enhancements.

Presentation of devices with various software drivers   Solving the software driver problem

The standardised OPC interface eliminates the need for specialist knowledge of the manufacturer-specific protocols. This results in significantly lower costs and effort for development, commissioning and maintenance.

OPC servers in combination with the SBC S-Bus

▸ OPC project: All OPC data for networked controllers is brought together in a single project. This produces a clear data structure and simplifies the proper definition of data points

▸ Import of PLC variables: Symbols and data points previously defined for the PLC program with the Saia PG5® Controls Suite software tool can be carried over and used unmodified by the OPC Server. Data formats for import functions include: *.src (PG3, PG4), *.pcd (PG4, PG5), *.sy5 (PG5), *.csv (comma separated values; e.g. from Excel)

▸ OPC Server / Saia PCD®: Visualisation and management systems with OPC client interfaces can be connected to any Saia PCD® controller via the OPC Server. This enables every OPC client, via the OPC Server, to read data from the PCD or write data to the PCD. PLC data that can be displayed in OPC Server includes: Inputs, outputs, flags, registers, data blocks, texts, timers, counters, date-time, firmware version

Supported OPC data access standards
1.01a, 2.05a

Supported PC operating systems
Windows Server 2008, Windows Server 2012, Windows 7, Windows 8, Windows 8.1, Windows 10

Communication by all routes
Communication between the OPC Server and the Saia PCD® can take place via RS-232, RS-485, modem, TCP/IP, Profibus or USB. Several OPC clients can access the OPC Server simultaneously via multiple PC interfaces

Supported protocols
S-Bus Data, Parity and Break mode, S-Bus via UDP/IP (Ether-S-Bus), S-Bus via Profibus (Profi-S-Bus), PGU-Mode

Order information | Saia OPC Server for SBC S-Bus

SBC OPC Server – Full version, for one PC and one application	PCD8.OPC-1
SBC OPC Server – Full version, for 3 PCs with the same application	PCD8.OPC-3
SBC OPC Server – Full version, for 5 PCs with the same application	PCD8.OPC-5

1 SBC software

2 Communication & Interaction

3 SBC S-Web technology

4 Room automation