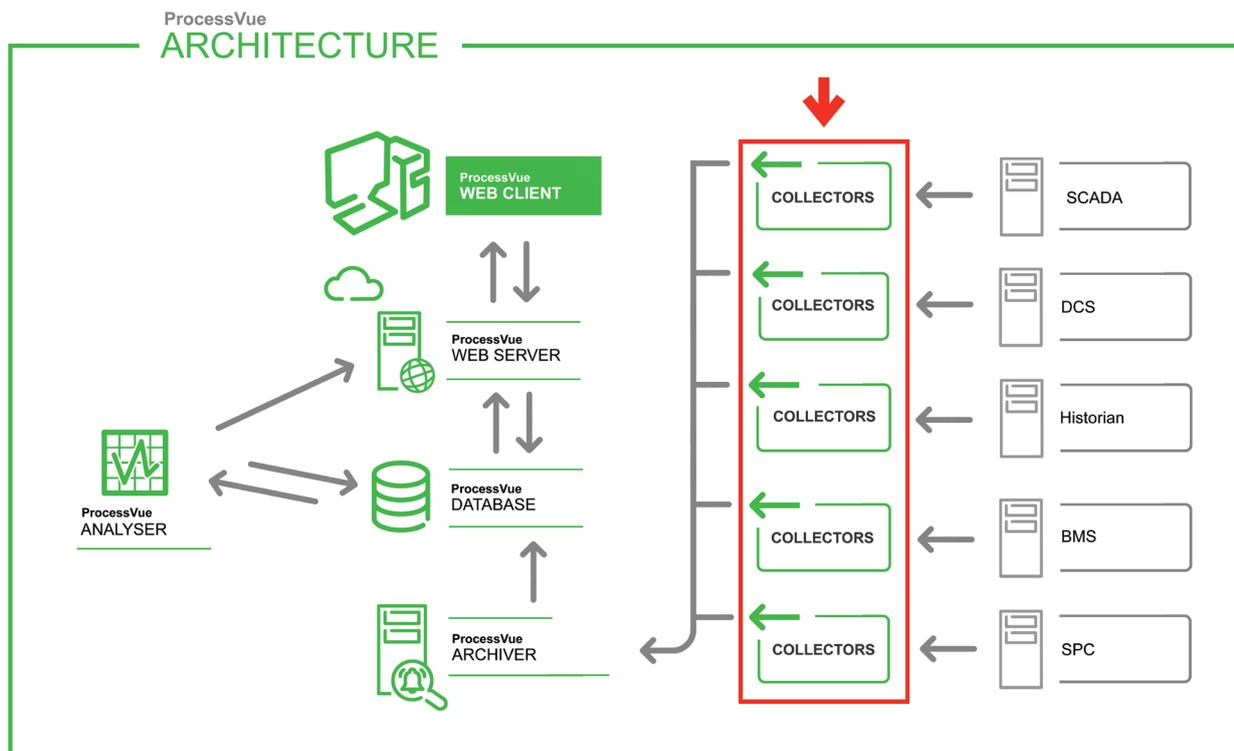


THE DATA COLLECTOR



What is it and what does it do?

The Data Collector is a service within the ProcessVue software suite; it is employed by ProcessVue Sequence and the ProcessVue Analyser software. It is responsible for collecting alarms and events from Process Systems. Incorporating a suite of connectivity drivers, ProcessVue can collect alarms and events from a multitude of systems, including SCADA, DCS, and Fire & Gas systems.



How it works

A single ProcessVue Sequence or Analyser system can leverage up to eight Collectors. Each Collector can host up to 32 inputs, providing 256 inputs per system. Inputs are connections to individual alarming systems. Once configured, they are assigned a communication driver which allows the Collector to capture the raw alarm and event data, ready for retrieval by the Archiver service. The Archiver establishes and maintains a connection with the Collectors. Upon finding new data, the Archiver retrieves the alarm and event data from the Collector.

The Collector provides buffering capabilities for alarm and event data. There are two buffers: a compact SQL database buffer and a file storage buffer. Should the network fail between the Collector and the Archiver service, the Collector will buffer the alarms and events. When the network is restored, the buffered alarms and events will be sent automatically to the Archiver in a FIFO order, ensuring there are no losses of alarm data for reporting.

The Collector can be installed as part of a distributed architecture or installed on a single server alongside the other ProcessVue Sequence or Analyser components.

Communication Drivers

The Collector features a suite of connectivity drivers that can be assigned to inputs, enabling it to collect alarms and events from multiple systems, it features the following drivers:

AVEVA System Platform Historian	Allows alarms and events to be polled from AVEVA's System Platform Historian. Frequency and amount of data can be altered so as not to overburden the historian.
AVEVA HMI	Allows alarms and events to be polled from AVEVA's WWALMDB tables, frequency and amount of data can be altered so as not to overburden the system.
OPC A&E	Enables the collection of alarms and events from any OPC A&E compliant system.
Table Monitor	Alarms and events stored in SQL tables can be polled by the Collector, custom scripts can be created to pull select fields from a SQL table.
Ethernet Server TCP	Allows the listening of one or more TCP/IP ports, alarm and event data sent to the IP port will be captured by ProcessVue.
Ethernet Server UDP	Allows ProcessVue to listen and capture alarms and events sent as UDP broadcasts.
Flat File	The Collector can monitor folders on a PC for text and CSV files. Upon finding a file it will open the file and extract the alarms and events to be collected by the Archiver.
Serial RS232	ProcessVue can access alarms sent to an RS232 Serial Interface.
ProcessVue Connectivity Suite*	Contains new connectivity drivers including OPC UA, MQTT and others.

Software

- Windows: Windows 10 or Windows Server 2019
- Microsoft .NET Framework 4.7.1
- Microsoft SQL Server Compact 3.5 SP2 Database
32/64-bit OPC Core Components
- Latest Service Packs and Updates for the above

Hardware

- Intel / AMD Quad Core Processor or better
- 4 GB of System RAM
- 50 GB Hard disk or better

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