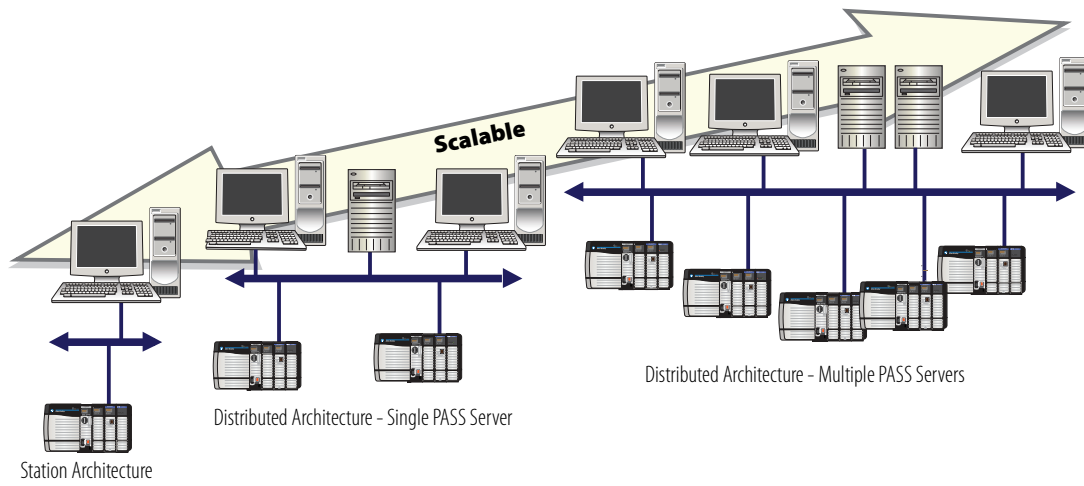


Scalable Architectures

Rockwell Automation characterizes the PlantPAx system that is based on its size or architecture class. A ‘characterized’ (system- tested) classification yields system performance data and recommended hardware and software configurations. The classes of PlantPAx architecture offer system scalability while organizing Integrated Architecture products consistent with process industry expectations.

The architecture classes that are shown in the illustration include the following:

- System architecture with single station that acts as PASS, OWS, and EWS
- Distributed system architecture for single server with multiple OWS and EWS
- Distributed system architecture for multiple servers and multiple OWS and EWS



Use these system elements in your process architecture.

Table 3 - Architectures and System Elements

System Element	Station Architecture	Distributed Architecture
PASS	Single computer serves as PASS, EWS, and OWS in an independent workstation	One PASS required and includes the following: <ul style="list-style-type: none"> • FactoryTalk Directory server • HMI server • Data server • Alarms and Events Server Additional PASS as needed (up to 10 servers or redundant server pairs)
EWS	Included in independent workstation	<ul style="list-style-type: none"> • 1 EWS required • Can have as many as 5 EWS
OWS ⁽¹⁾	Included in independent workstation	Up to 10 remote clients per PASS; up to 50 for system
Process controller ⁽¹⁾	1...5 ControlLogix controllers	1...8 ControlLogix controllers per PASS (data server)
Application servers	AppServ-Asset Management as needed AppServ-Batch as needed AppServ-Information Management (Historian or Reporting) as needed	AppServ-Asset Management as needed AppServ-Batch as needed AppServ-Information Management (Historian or Reporting) as needed AppServ-OWS as needed

(1) The actual number of OWS/controllers supported can vary based on controller selection, OWS configuration, and overall system loading. Use the PlantPAx System Estimator (PSE) to verify your system design. The PSE allows you to verify your application beyond these basic guidelines.