Proficy Application Suite Port (Firewall) Requirements
Plant Applications, SOA/Workflow, Vision, Historian, Universal Client (UC), and Licensing

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The following tables depict the **<u>DEFAULT</u>** Firewall Port Requirements for Proficy Plant Applications, Proficy SOA/Workflow, Proficy Vision, Plant Applications Universal Client, Proficy Historian, and Proficy Licensing. Ports related to the Universal Client may be different per installation.

If the Microsoft Windows Firewall Service is enabled, a 3rd party Firewall Application (Symantec, Norton, McAfee, etc...) is installed, or ports have been blocked at the network layer: **<u>These port exceptions must be made prior to installation for the application(s) to install and run correctly.</u>**

Notes:
On Microsoft Server Operating Systems 2012 and later disabling the Windows Firewall Service is <u>NOT</u> recommended. The recommended method is to have the service enabled, but to disable the firewall in Control Panel or create the appropriate firewall rules (exceptions) to open the ports listed below.

Net.TCP Port Sharing Must Be Enabled on Proficy Servers (this is a feature added with Application Server Role, on Server 2016 this role has been discontinued and the feature must be enabled and the related services must be enabled and set to Automatic (or Automatic Delayed)

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Proficy Application Suite Port Rule Exception Examples (More Restrictive Than Disabling The Firewall)			
Application	Suggested Rule Name	Type	Ports
Proficy Servers	Proficy Applications Suite Server Inbound	TCP	21,80,139,443,475,3333,5432,5434,5672,8008,8012,8020,8081,8111,8112,8114,8214,8201-8204,8443,8444,10000,12280,12293-12296,12299,12401,14000-14003,15672
Proficy Servers	Proficy Applications Suite Server Outbound	TCP	21,25,80,139,389,636,443,445,475,1433,3333,8008,8111,10000,12280,12293-12296,12299,12401,13000,14000,5434,8080,8444,50000,50001
Proficy Clients	Proficy Applications Suite Client Inbound	TCP	443,8020,9000,10000,12280,12293-12296,12299,12401
Proficy Clients	Proficy Applications Suite Client Outbound	TCP	80,443,475,1433,1000,8008,8020,8080,8111,8112,8114,8201,8202,8444,9000,12280,12293-12296,12299,12401,13000,14000-14003

Proficy Application Suite Port Rule Exceptions By Application – (More Restrictive Than Proficy Suite Rules)			
Application	Suggested Rule Name	Type	Ports
Plant Applications	Plant Applications Application Server Inbound	TCP	21,80,443,475,10000,12280,12293-12296,12299,12401,5672,15672
Plant Applications	Plant Applications Application Server Outbound	TCP	21,25,80,443,1433,3333,10000,12280,12293-12296,12299,12401,13000,14000,5434,8080,8444,50000,50001
Plant Applications	Plant Applications Report Server Inbound	TCP	21,80,443
Plant Applications	Plant Applications Report Server Outbound	TCP	21,25,80,443,445,475,1433,13000,14000
Plant Applications	Plant Applications Client Inbound	TCP	10000,12280,12293-12296,12299,12401
Plant Applications	Plant Applications Client Outbound	TCP	80,443,475,1433,1000,12280,12293-12296,12299,12401,13000,14000,8080,8444
Plant Applications	Plant Applications Remote Data Service Inbound	TCP	12299,12401
Plant Applications	Plant Applications Remote Data Service Outbound	TCP	475,12299,12401
SOA/Workflow	SOA/Workflow Server Inbound SOA/Workflow Extension Server Inbound	TCP	8008,8012,8020,8111,8112,8114,8214,8201-8204,8443,8444
SOA/Workflow	SOA/Workflow Server Outbound SOA/Workflow Extension Server Outbound	TCP	1433,8111,50000,50001
SOA/Workflow	SOA/Workflow Proficy Client Inbound	TCP	8020,9000
SOA/Workflow	SOA/Workflow Proficy Client Outbound	TCP	8008,8020,8111,8112,8114,8201,8202,9000
Vision	Vision Server Inbound	TCP	443,8008
Vision	Vision Server Outbound	TCP	475,1433,8008
Historian	Historian Server Inbound	TCP	443,14000-14003
Historian	Historian Server Outbound	TCP	443
Historian	Historian Client Inbound	TCP	443
Historian	Historian Client Outbound	TCP	443,14000-14003
Historian	Plant Applications Universal Client Server Inbound	TCP	5432,5434, 8081,8444
Historian	Plant Applications Universal Client Server Outbound	TCP	1433
Licensing	Proficy Advantage Licensing Server Inbound	TCP	3333
Licensing	Proficy Advantage Licensing Server Outbound	TCP	80,443

Plant Application Default Port Requirements

Name	Application	Direction	Type	Ports	Primary Applications
FTP	PA Application Server PA Report Server	Both	TCP	21	Report Engine Services FTP Service (Import/Export Models)
SMTP	PA Application Server PA Report Server	Outbound	TCP	25	Email
HTTP	PA Application Server PA Report Server	Inbound	TCP	80	Report Server Web Services
HTTP	Clients	Outbound	TCP	80	Client/Web Browser
HTTPS	PA Application Server PA Report Server	Inbound	TCP	443	Report Server Web Services
HTTPS	Clients	Outbound	TCP	443	Client/Web Browser
SAMBA	PA Report Server	Outbound	TCP	445	Report Printing
PRLicensing	PA Application Server	Inbound	TCP	475	Proficy Licensing
PRLicensing	PA Report Server Clients	Outbound	TCP	475	Proficy Licensing
SQL	PA Application Server PA Report Server Clients	Outbound	TCP	1433	SQL Connections
PRLicensing	PA Application Server	Outbound	TCP	3333	Advantage Licensing
PRMessageBus	PA Application Server PA Clients	Both	TCP	10000	Services & Clients
PRMessageBus	PA Application Server PA Clients	Both	TCP	12280	Services & Client
PRProficyMgr	PA Application Server	Both	TCP	12293	Services
PRGateway	PA Application Server PA Clients	Both	TCP	12294	Services & Client
PRGateway	PA Application Server PA Clients	Both	TCP	12295	Services & Client
PRMessageBus	PA Application Server PA Clients	Both	TCP	12296	Services & Client
PRRDS	PA Application Server PA RDS Clients	Both	TCP	12299	Services & Client
PRLicensMgr	PA Application Server PA Clients	Both	TCP	12401	Licensing
Historian	PA Application Server PA Report Server	Outbound	TCP	13000 14000	Services & Client
Universal Client	PA Application Server	Outbound	TCP	5434	PostgreSQL
Universal Client	PA Application Server PA Client	Outbound	TCP	8080,8444	Universal Client Tomcat
Universal Client	PA Application Server	Inbound	TCP	5672,15672	RabbitMQ Management
LDAP	PA Application Server	Outbound	TCP	50000,50001	LDAP Authentication

SOA/WorkFlow/Ext Server Default Port Requirements

Name	Application	Direction	Type	Ports	Primary Application
SOA/Workflow	SOA/WorkFlow/Ext Server	Inbound	TCP	8008,8012,8020,8111,8112,8114,8214,8201-8204,8443,8444	Services & Client
SOA/Workflow	SOA/WorkFlow/Ext Server	Outbound	TCP	1433,8111,50000,50001	SQL & LDAP
SOA/Workflow	Task List	Both	TCP	8020	Subscriptions
SOA/Workflow	Client	Both	TCP	9000	Subscriptions
SOA/Workflow	Client	Outbound	TCP	8008,8111,8112,8114,8201,8202	Communications

Vision Default Port Requirements

Name	Application	Direction	Type	Port	Primary Applications
HTTPS	Vision Server	Inbound	TCP	443	Web Services
PRLicensing	Vision Server	Outbound	TCP	475	Licensing
SQL	Vision Server	Outbound	TCP	1433	SQL Connection
Certificates	Vision Server	Outbound	TCP	8008	Certificates

Universal Client Default Port Requirements

Name	Application	Direction	Type	Port	Primary Application
PostgreSQL	Historian Server	Inbound	TCP	5434	Universal Client PostgreSQL
PostgreSQL	Historian Server	Inbound	TCP	5432	Historian PostgreSQL
TomCat	Historian Server	Inbound	TCP	8081	Historian UAC
TomCat	Historian Server	Inbound	TCP	8444	Universal Client

Historian Default Port Requirements

Name	Application	Direction	Type	Ports	Primary Applications
Client Manager	Historian Server	Inbound	TCP	14000	Historian Client
Data Archiver	Historian Server	Inbound	TCP	14001	Services
Config Manager	Historian Server	Inbound	TCP	14002	Services
Diagnostic Manager	Historian Server	Inbound	TCP	14003	Services
Client	Historian Client	Inbound	TCP	443	Communications
Client	Historian Client	Outbound	TCP	443,14000-14003	Communications

Advantage Licensing Default Port Requirements

Name	Application	Direction	Type	Ports	Primary Applications
PRLicensing	[Advantage License Server](#)	Inbound	TCP	3333	Advantage Licensing
PRLicensing	[Advantage License Server](#)	Outbound	TCP	80,443	Advantage Licensing
PRLicensing	PA Application Server Historian Server	Outbound	TCP	3333	Advantage Licensing

Common Port Requirements Associated with the Proficy Suite of Applications

Name	Application	Direction	Type	Ports	Primary Application
NetBios	All	Both	TCP	139	Network Communications
AD/ADLS/ADAM	ALL	Outbound	TCP	389	Active Directory
AD/ADLS/ADAM	ALL	Outbound	TCP	636	Active Directory Secure
SQL	Microsoft SQL Server	Inbound	TCP	1433	SQL Server
SQL	Microsoft SQL Server	Inbound	UDP	1434	SQL Server (SQL Browser)