Renishaw Central

Specification

Principal application	Renishaw Central is a manufacturing connectivity and data platform that collects, and provides visibility of, manufacturing process data. Renishaw Central enables users to monitor and update machining and quality control systems. Its features also allow for manufacturing process parameters to be updated using its IPC (Intelligent Process Control) functionality.		
System requirements	Maximum concurrent device connections		
	Small: up to 10	Medium: up to 25	Large: up to 150
Operating system	Windows® 10 64-bit [1] Windows server 2016 or later	Windows server 2016 or later	Windows server 2016 or later
Processor (minimum)	2.5 GHz to 2.9 GHz dual-core or equivalent	3 GHz quad-core or equivalent	High-performance Intel® Xeon® or equivalent
RAM	8 GB	12 GB	32 GB
Disk space	1 TB	4 TB	8 TB
Client browser	Microsoft Edge or Google Chrome		
Network	Ethernet LAN interface card		
Software	Microsoft® .NET Framework 4.8 or later Microsoft® .NET Core Hosting Bundle 6.0 [2] Microsoft® IIS 7.0 or later [3]		
Database	PostgreSQL [2]		
API	Web API		

Data available	Machine status	Machine alerts	Job progress	Job yield	Metrology data	Time series data	Process updates [8]
Renishaw products							
MODUS UCC Suite [4]	✓	✓	✓	✓	✓	✓	✓
Reporter [5]	✓		✓	✓	✓	✓	✓
Equator™ ESS [6]	✓	✓	✓	✓	✓	✓	✓
Additive MSS [7]	✓	✓	✓			✓	
Renishaw Central API	✓	✓	✓	✓	✓	✓	✓
Non-Renishaw products [8]							
MTConnect [9]	✓	✓	✓	✓	Future release	✓	
Other data sources [10]	API integration is available for leading brands of co-ordinate measuring machine (CMM) software.						

[1]   Including Professional and Enterprise. Care must be taken not to exceed the maximum permitted connections of the operating system.

[2]   Installed by Renishaw Central if no usable version is currently installed.

[3]   Windows features including IIS services must be enabled.

[4]   CMMs using UCC 5.6 or later, with MODUS 1.11 or later.

[5]   CNC machines using Reporter 3.0 or later.
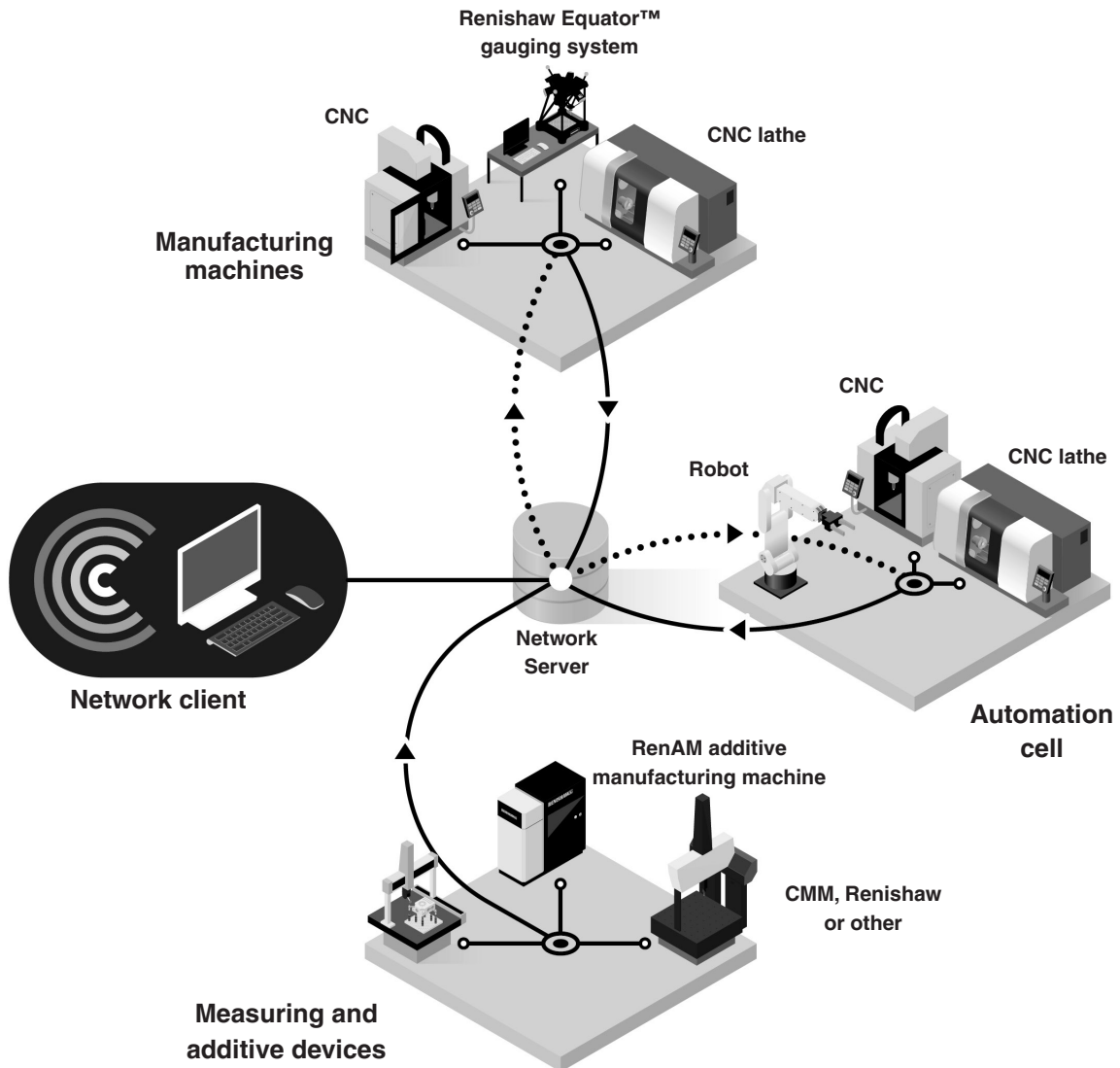
[6]   Equator machines using ESS 2.2.0.

[7]   Additive manufacturing machines using MSS 2.0 or later.

[8]   Contact your local Renishaw office for the latest device and CNC compatibility.

[9]   Renishaw Central outputs MTConnect 1.4 data.

[10]   Subject to additional application development. Custom data connectors may be required depending on the format of exported data.

Example system

Renishaw Equator™
gauging system

CNC

CNC lathe

**Manufacturing
machines**

Network client

Robot

CNC

CNC lathe

**Network
Server**

**Automation
cell**

RenAM additive
manufacturing machine

CMM, Renishaw
or other

**Measuring and
additive devices**

——————— Data sent over the machine shop LAN to Renishaw Central

· · · · · · · · · · IPC data sent over the machine shop LAN from Renishaw Central