ASCENT

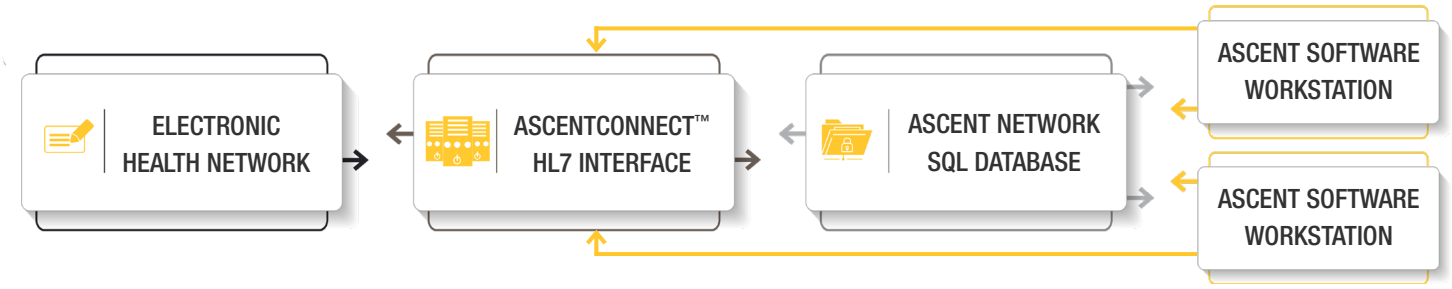
cardiorespiratory diagnostic software

NETWORK & INTERFACE SOLUTIONS

TRANSFORMING HEALTHCARE CONNECTIVITY

In today's interconnected healthcare landscape, MGC Diagnostics' Network and Interface Solutions are the building blocks for a more efficient, patient-focused, and data-driven healthcare system. Embracing this game-changing technology allows healthcare institutions to easily link different parts of their systems, welcoming an era of improved care and simplified operations.

DATA MANAGEMENT | DATA STORAGE



DATA STORAGE

ASCENT NETWORKING

Ascent Networking seamlessly links diagnostic workstations and review stations, enabling the effortless sharing and centralized storage of data within a Microsoft SQL Server® database. This networking solution allows all workstations to access a unified database, whether through a Local Area Network (LAN) or a Wide Area Network (WAN).

DATA MANAGEMENT

ASCENTCONNECT™ HL7 INTERFACE SOFTWARE

AscentConnect™ HL7 interface simplifies data sharing across an unlimited number of networked systems and your EMR. This interface software is designed with compatibility in mind, seamlessly integrating with a wide range of commercial and facility-developed Hospital Information Systems (HIS). This means you can access vital patient information from any location that's connected to your facility's EMR system.

Ascent Networking

UNIFIED DATA INTEGRATION

Ascent Networking effortlessly connects diagnostic workstations and review stations, enabling the sharing and storage of critical data in a centralized Microsoft SQL Server® database. This connectivity harmonizes all workstations, whether on a local area network (LAN) or a wide area network (WAN).

SIMPLIFIED IT SOLUTIONS

Our enterprise-friendly approach allows IT/IS departments to utilize their approved hardware, eliminating the need for additional vendor hardware.

ENCRYPTION

Personal Health Information (PHI) data tables in Ascent utilizes AES-256 encryption. PHI is encrypted before transmitting across the wire so it is encrypted on the wire (and at rest) even when the SQL connection itself is not encrypted

AscentConnect™ HL7 Interface

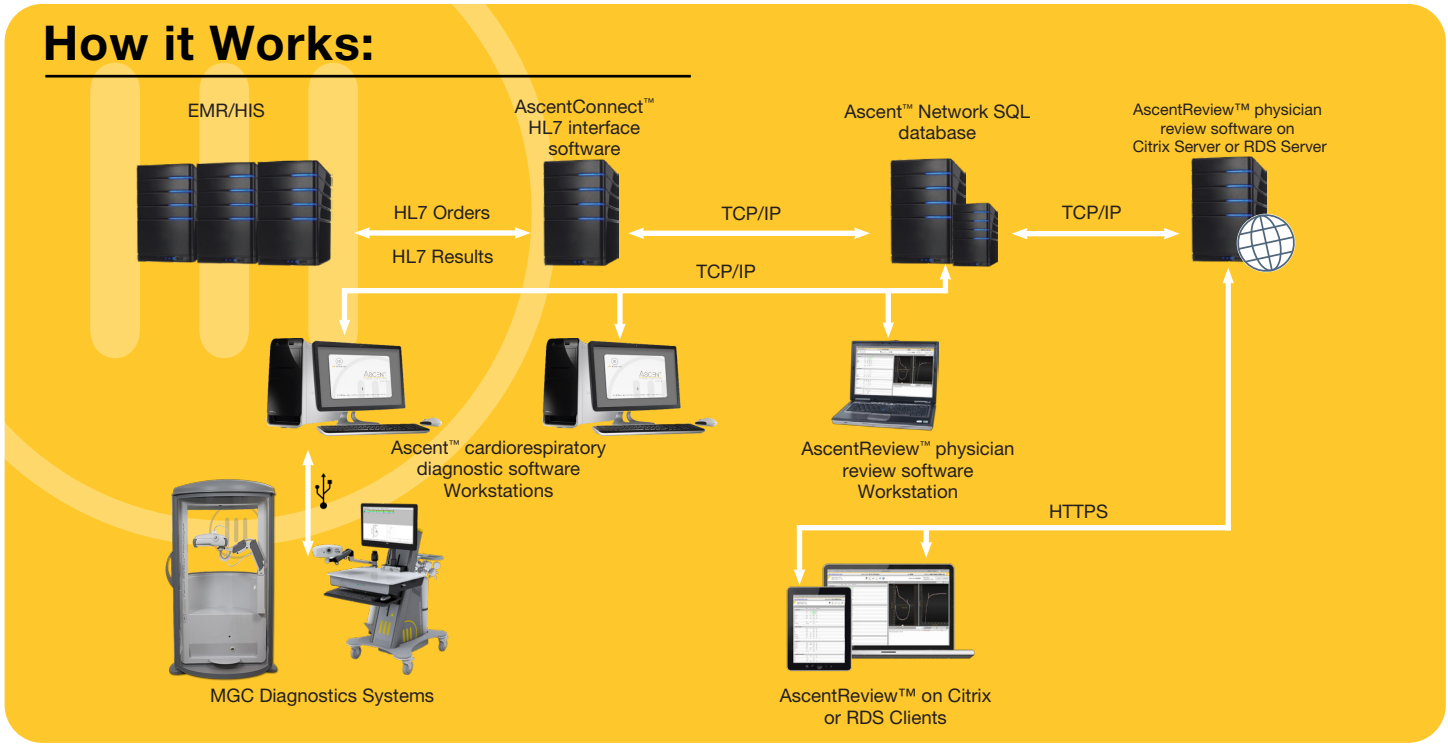
SEAMLESS DATA EXCHANGE

AscentConnect HL7 interface software opens the gateway for an unlimited number of networked systems to effortlessly exchange data with the electronic medical records (EMR) system. Compatible with most commercial and facility-developed hospital information systems (HIS), it provides seamless access to patient information from any location linked to the facility's EMR system.

STREAMLINED WORKFLOW

Let's break it down: Patient orders and demographics (ADT) are received on a workstation. Post-testing and interpretation, the AscentConnect HL7 interface software efficiently sends test data, PDF reports, text reports, or a combination of these to the EMR system in HL7 format.

How it Works:



Why Choose MGC Diagnostics?

Elevate your integration with our Professional Services Team

Experience Seamless Integration:

Our professional services program is accessible to all our customers. Our team of expert application and support technicians is at your service, dedicated to ensuring the seamless integration of MGC Diagnostics equipment and software into your hospital network.

Tailored Expertise, Regardless of Scale:

Whether you're a single office or part of a vast networked campus, our experienced team will guide you through the intricate process. Our goal is to guarantee that your systems are not only up and running but are also secure and operating at peak efficiency.

SPECIFICATIONS FOR ASCENT NETWORK SQL DATABASE SERVER

Operating System	○ Windows Server 2016 ○ Windows Server 2019 ○ Windows Server 2022 ○ Windows Server 2025
Processor	○ 2.0 GHz or faster recommended
Hard Disk	○ 250+ GB recommended
Memory	○ 16+ GB recommended
Windows Display Properties	○ 1920 x 1080 (widescreen) recommended ○ 1024 x 768 minimum
Network	○ TCP/IP networking installed
Virtual Machine Support	○ Yes
Cloud Databse Support	○ Yes. Google Cloud Database, Microsoft Azure Database and Amazon Web Services Database (AWS)
SQL Server Versions Supported	○ SQL Server 2016 (Standard or Enterprise edition) ○ SQL Server 2017 (Standard or Enterprise edition) ○ SQL Server 2019 (Standard or Enterprise edition) ○ SQL Server 2022 (Standard or Enterprise edition)
SQL Server Configuration	○ TCP/IP protocol enabled on Server Service and Native Client Service ○ SQL Browser Service Enabled if Named Instance used

SPECIFICATIONS FOR ASCENTCONNECT HL7 INTERFACE APPLICATION SERVER (IM v9.X)

Operating System	○ Windows Server 2016 ○ Windows Server 2019 ○ Windows Server 2022
Processor	○ Dual Core minimum, Quad Core recommended if over 1K messages/day
Hard Disk	○ 500+ GB Recommended *NOTE: Additional hard disk space is required based on the amount of data to retain and duration.*
Memory	○ 16+ GB Recommended
EMR/HIS Connectivity	○ Options include: Client/Server connectivity via TCP/IP (Static IP address) or file exchange
Virtual Machine Support	○ Yes*
Cloud Server Support	○ Yes.** Windows Server 2016, Windows Server 2019, and Windows Server 2022.
Prerequisites	○ .NET Framework 4.6.2 or higher

**Purchase of Data Service License required.*
***Comprehensive validation across all operational environments remains incomplete.*

SPECIFICATIONS FOR ASCENT WORKSTATION

Operating System	○ Windows 11 (Professional, Enterprise edition or LTSB)
Processor	○ Intel Core i5 10th Generation Processor or Greater
Hard Disk	○ 250+ GB recommended
Memory	○ 16+ GB recommended
Windows Display Properties	○ 1920 x 1080 (widescreen) recommended ○ 1024 x 768 minimum
Other Hardware	○ 3+ USB-A ports
System Type	○ 64-bit OS and Hardware recommended

SPECIFICATIONS FOR ASCENTREVIEW FOR CITRIX, RDS OR VDI

Operating System	○ Windows 11 (Professional, Enterprise edition or LTSB) ○ Windows Server 2012/2012 (R2) (64-bit)** ○ Windows Server 2016** ○ Windows Server 2019** ○ Windows Server 2022** ○ Windows Server 2025**
Processor	○ Dual Core or greater recommended
Hard Disk	○ 100+ GB recommended
Memory	○ 16+ GB Recommended
Windows Display Properties	○ 1920 x 1080 (widescreen) recommended ○ 1024 x 768 minimum
Network	○ TCP/IP networking installed
Virtual Machine Support	○ Yes

***Purchase of Ascent Server Licensing required.*

Proven Expertise

With a track record of excellence, we are trusted by healthcare professionals worldwide.

Allscripts athenahealth Cerner Epic

Epiphany healthcare McKESSON nextgen healthcare MEDITECH

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