



// HUMPHREY FIELD
ANALYZER
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HFA II-i Network Connectivity Goals and Requirements

Application Note

CAUTION: Refer to the HFA™ II-i User Manual for warnings, safety information, labeling and detailed operating instructions. This Application Note is only a complement to the User Manual.

What is your connectivity end goal?

The goals described here provide an overview of the required software and licenses for the HFA and server based upon the end connection goal. There are three end goals.

Goal 1: View Report in DICOM EMR	HFA Software	HFA License	Server Software
View the PDF or TIFF of the HFA report in the patient record of a DICOM compliant EMR or Viewer/Archive application (Example: VistA, FORUM®). Export a DICOM-compliant image file and raw data to the server and attach the image file to an EMR or Viewer/Archive application.	Version 5.0	DICOM Gateway 2.0	DICOM Gateway 2.0
	Version 5.1	DICOM Gateway 2.0	DICOM Gateway 2.0
Goal 2: View Report in EMR	HFA Software	HFA License	Server Software
View an HFA report in the patient record of an EMR. Requires export of the HFA PDF or TIFF image file to a shared network folder that an EMR can import from. ¹	Version 4.2.2	HFA-NET™ Pro	N/A
	Version 5.0	HFA-NET Pro	N/A
	Version 5.1	HFA-NET Pro	N/A
Goal 3: View Report on a PC	HFA Software	HFA License	Server Software
View an HFA report on a PC. Requires exporting a PDF or TIFF image file of the report to a network folder, and browsing to that folder to view the file.	Version 4.2.2	HFA-NET Pro	Adobe® Acrobat (for PDF) Windows® Picture and Fax Viewer (for TIFF)
	Version 5.0	HFA-NET Pro	Adobe Acrobat (for PDF) Windows Picture and Fax Viewer (for TIFF)
	Version 5.1	HFA-NET Pro	Adobe Acrobat (for PDF) Windows Picture and Fax Viewer (for TIFF)

¹This EMR integration method using HFA-NET Pro requires an HFA-specific interface. EMRs that have created an HFA-specific interface are OfficeMate® ExamWRITER®, Compulink, VersaSuite and Medflow. Only these EMRs will be supported for connectivity with HFA-NET Pro. Connectivity to other EMRs is available through FORUM.



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REQUIREMENTS

Server	Pentium® 1.8GHz / 1GB RAM / 40GB minimum free Hard Disk space HFA file size (per exam) – average PDF: 30Kb
Operating Systems	Windows XP and Vista. Also Windows 2003 and 2008 server. Common Internet File System (CIFS) and/or File Transfer Protocol (FTP) are required.
Switches	HFAs equipped with software version 5.0 or less, must use a 10/100 Mbps ethernet connection, forced through to the server. 1000 Mbps (gigabit ethernet) connections are not supported. HFAs equipped with software version 5.1 or greater will support 1000 Mbps ethernet. If two or more HFAs are on the network, and one is 5.0, the network must be configured to run at 10/100 Mbps as described above.
Humphrey® Field Analyzer (HFA)	HFA must be an “i” series. Non-i series HFAs do not have an ethernet port and therefore cannot be configured to run on a local area network. Minimum HFA application software and software licenses are required. Depending on the configuration of the HFA, it must be equipped with application software version 4.2.2 or 5.0, and/or version 5.1 or greater software for newer HFAs (see What is your connectivity end goal? reverse). Depending on your final connectivity goal, and the configuration of your HFA, you may need to purchase an HFA-NET Pro or DICOM Gateway license to connect to the server (see What is your connectivity end goal? reverse). The HFA can transmit exam reports in two file formats (PDF or TIFF) to a Windows shared folder using CIFS or FTP. In addition, the HFA can transmit exam data (in a protected format) to a Windows shared folder, for backup and restore purposes. (If more than one HFA is on the network – see below.) Two or more HFAs connected to a network can share data through a central database solution (such as FORUM). ² The HFA can be connected to many Electronic Medical Record (EMR) applications through FORUM.
Network Printers	Printers must support either PCL 3 or 5 natively. Printers that emulate PCL 3 or 5 are not supported. Configuring an HFA for network printing requires the HFA to first be connected over the network to a Windows computer that shares access to a supported printer.

Note: To network an HFA instrument with running software system version 5.1 with other HFAs, all other HFAs must be running system software version 5.0 or greater. A DICOM-compliant EMR that supports Modality Worklist and EPDF IOD is required.

²Prior to the availability of FORUM, sharing data between HFAs used the Archive/Retrieve process using HFA-NET Pro. This method is no longer recommended for sharing data between instruments, due to limitations in implementing some types of changes across instruments. Now with the availability of FORUM, HFA Archive/Retrieve should only be used as a secondary method to backup/restore HFA databases over local area networks.



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