

# CARTOMERGE™

IMAGE INTEGRATION SOFTWARE MODULE

## IMAGE COMPATIBILITY REFERENCE GUIDE

### Definitions of Data Types:

**DICOM 3** – Industry standard that contains a data set, typically known as a series, with at least 3 slices. There are two methods to retrieve DICOM 3 data. The first method is to burn the slices onto a CD directly at the scanner for export to the CARTO™ XP System. The second method is to do this at a radiology workstation. In this case, the workstation receives slices from the scanner and nothing is done to them. The workstation just acts as a pass through for the scanner and burns the slices onto a CD for export to the CARTO™ XP System.

**Edited Data Set** – DICOM 3 slices that have been taken from a scanner and edited on a radiology workstation to remove unwanted anatomy. The edited data set is burned onto a CD for export to the CARTO™ XP System.

**3D Model** – Data set that has been edited and rendered into a three dimensional object such as the Left Atrium. The 3D model is burned onto a CD for export to the CARTO™ XP System. At this time, only the 3D model of the Left Atrium created on the GE AW using Card EP software is supported.

DICOM 3 data can be exported directly from a scanner or from most radiology workstations



### Key questions to ask the customer in order to determine their ability to perform an appropriate CT scan for the CARTO™ XP System:

1. What type of CT scanner do you have? (A 16 slice scanner and above is preferred due to the fact that they produce higher resolution images, however, we can support any scanner that can output DICOM 3 data)
2. Do you have a power injector such as the Medrad Stallant?
3. Do you have contrast software such as Smart Scan, Smart Prep, Sure Start...?
4. Can you perform gating?

The customer should be able to answer yes to questions 1-3. It is preferred that they can perform gating (question 4) but it is not necessary.



### Key questions to ask the customer in order to determine their ability to perform an appropriate MR scan for the CARTO™ XP System:

1. What type of MR scanner do you have? (A 1.5T or higher tesla magnet is preferred)
2. Do you have a power injector such as the Medrad Stallant?
3. Do you have contrast software such as Smart Scan, Smart Prep, Sure Start...?
4. Do you have fast gradients (40 mT/mm and above)?
5. Can you perform white blood, black blood, and perfusion imaging?

The customer should be able to answer yes to all of the questions above.



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**Scanner Compatibility** - The following scanners have been verified and validated to be compatible with the CARTOMERGE™ Image Integration Software Module. **Please Note:** If you do not see a scanner on this list, it has not yet been verified and validated, however, it may be compatible if it can provide DICOM 3 data. Remember, DICOM 3 is an industry standard and the CARTO™ System can read images in this format. Please burn an exported data set from the scanner in question and send to the following contact for validation and verification:

**U.S.:** Sylvia Konopka  
 3333 Diamond Canyon Road  
 Diamond Bar, CA 91765  
 (909) 839-8897

**International:** Assaf Preiss  
 7 Etgar St., Einstein Building  
 POB 2009  
 Tirat-Hacarmel  
 Israel  
 +972 (4) 813 1142

CT Scanner Types
GE 16 Slice
GE 64 Slice
Siemens 16 Slice
Siemens 64 Slice
Toshiba 64 Slice
Philips 16 Slice
Philips 40 Slice
Philips 64 Slice

MR Scanner Types
GE 1.5T
Siemens 1.5T
Philips 1.5T

**Workstation Compatibility** - The following is a workstation compatibility matrix. A " ✓ " indicates compatibility. If we are not compatible at this time, but we will be, we have listed an estimated date of compatibility. Workstations can export different types of data with which we can be compatible (Please see definitions of data types).

VENDOR	DICOM 3	Edited Data Set	3D Model
GE AW	✓	✓	✓
Siemens Leonardo	✓	✓	End of Year 2005
Vital Images Vitrea 2	✓	End of Year 2005	TBD
Philips EBW	✓	No	September 2005

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