

# DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2014/06/19
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Correction Number	CP-1332
Log Summary:	Standardization of DIXON Image and Frame Types
Name of Standard	PS 3.3 - 2013
Rationale for Correction:	MR DIXON imaging is a standard clinical imaging technique and it would useful to have common image type information used across vendors.
Correction Wording:	

*Change PS 3.3 Section C.8.13.1.1.1*

### C.8.13.1.1.1.3 Image Flavor

Table C.8-80 specifies the Defined Terms for MR additional to those defined in C.8.16.1.3 for Value 3 for Image Type (0008,0008) and Frame Type (0008,9007).

**Table C.8-80  
MR-SPECIFIC IMAGE TYPE AND FRAME TYPE VALUE 3**

Defined Term Name	Defined Term Description
...	...
DIFFUSION	Collected to show diffusion effects
<b><u>DIXON</u></b>	<b><u>Dixon Water Fat Imaging Techniques</u></b>
FLOW_ENCODED	Flow Encoded
...	...

### C.8.13.1.1.1.4 Derived Pixel Contrast

Table C.8-81 specifies the Defined Terms for MR additional to those defined in C.8.16.1.4 for Value 4 for Image Type (0008,0008) and Frame Type (0008,9007).

**Table C.8-81  
MR-SPECIFIC IMAGE TYPE AND FRAME TYPE VALUE 4**

Defined Term Name	Defined Term Description
...	...
DIFFUSION_ISO	Isotropic images derived from Directional

	Diffusion images
<b><u>FAT</u></b>	<b><u>Fat images derived using Dixon or other techniques</u></b>
<b><u>FAT FRACTION</u></b>	<b><u>Fat Fraction images derived using Dixon or other techniques</u></b>
<b><u>FIELD MAP</u></b>	<b><u>Field Map images derived using Dixon or other techniques</u></b>
<b><u>IN PHASE</u></b>	<b><u>Water/Fat In Phase images derived using Dixon or other techniques</u></b>
METABOLITE_MAP	Metabolite Maps from spectroscopy data
NEI	Created through Negative Enhancement Integral operation
<b><u>OUT OF PHASE</u></b>	<b><u>Water/Fat Out of phase images derived using Dixon or other techniques</u></b>
PERFUSION_AS_L	Perfusion from an ASL series obtained by subtraction of control and label data
<b><u>R2 MAP</u></b>	<b><u>R2 Map</u></b>
<b><u>R2 STAR MAP</u></b>	<b><u>R2* Map images derived using Dixon or other techniques</u></b>
R_COEFFICIENT	R-Coefficient Map (fMRI)
....	
T2_STAR_MAP	T2* Map <b><u>images derived using Dixon or other techniques</u></b>
T2_MAP	T2 Map
...	...
VELOCITY	Velocity encoded
...	...
<b><u>WATER</u></b>	<b><u>Water images derived using Dixon or other techniques</u></b>
<b><u>WATER FRACTION</u></b>	<b><u>Water fraction images derived using Dixon or other techniques</u></b>