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1- INTRODUCTION

Surfmap is a special proprietary site coil name configuration file used only by TLT for testing Surface Coils and Phased Array coils. Many customers prefer to name their coils differently than that listed in the procedure for Configuration File Manager. If the coil names are different from site to site, however, it is difficult (for others viewing the results) or impossible (for an expert system) to know the exact coil used (e.g. the 3 IN coil might be named "EYE" for one site and "EAR" for another). TLT analysis compares the scan coil name with the list of names in the Surfmap file. If it finds an exact name match, analysis continues. If the analysis doesn't find an exact name match (including spelling, spaces, and upper/lower case), the analysis halts. The analysis can't complete when the name doesn't match because it doesn't know the coil/phantom specifics needed for placing the ROI(s) (e.g. number of phantoms, their size, position, etc.).

Therefore, Surfmap provides a coil translation table. Each site can enter their site specific names for surface and Phased Array coils. Surfmap contains a list of standard GE names for existing surface and Phased Array coils. You simply select any coil listed and enter in your sites's name for it. Note that the name you enter for "Site Coil Name" in Surfmap must match exactly with the name already contained in your normal system configuration file or TLT analysis will abort!

2- ENTERING SURFMAP

1. On the Service Desktop, select the **[C Shell..]** button.

Note

For any changes while editing, use the backspace key instead of the delete key to remove a character.

2. Refer to Table 2-1 for inputs/outputs.

TABLE 2-1
 ENTERING SURFMAP; COIL NAME SCREENS

OUTPUT/PROMPTS	INPUT/COMMENTS
{sdc@<sysid>} [1]	cd /usr/g/service/cclass <Enter>
{sdc@<sysid>} [2]	surfmap <Enter>
=====	
= GE Surface Coil Name = Site Surface Coil Name	See Note below
=====	
[0] 5 11 LP [0] 5 11 LP	
[1] 5GP [1] 5GP	
[2] 3INCH [2] 3INCH	
[3] 5INCH [3] 5INCH	
[4] 5X11SPN [4] 5X11SPN	
[5] POSTNECK [5] POSTNECK	
[6] QUAD T/L [6] QUAD T/L	
[7] QUADCSP [7] QUADCSP	
[8] 5TL [8] 5TL	
[9] ANTNECK [9] ANTNECK	
=====	
[N]: Next Page [E]: Edit [A]: Abort [Q]: Quit	
Note:	
Abort: Exit without saving the changes.	
Quit : Exit and save all changes made.	
Enter Selection:.....	Enter choice.

Note

The "GE Surface Coil Name" column is the standard name displayed in the Coil Config File when using the Configuration File Manager tool. The Surfmap file has not been updated for many software releases, so many new coils are not contained in this tool.

3. Refer to Section 2 to enter a site specific coil name. Refer to Section 3 to add any new coils that aren't presently in the Surfmap file.

3- ENTERING A SITE SPECIFIC COIL NAME

1. Refer to Table 3-1 for inputs/outputs.

TABLE 3-1
 ENTERING A SITE SPECIFIC COIL NAME

OUTPUT/PROMPTS	INPUT/COMMENTS
===== = GE Surface Coil Name = Site Surface Coil Name = =====	
[20] PELVIC [20] PELVIC [21] DUAL [21] DUAL [22] KNEE [22] KNEE [23] QUADEXT [23] QUADEXT [24] TBD [24] TBD [25] TBD [25] TBD [26] TBD [26] TBD [27] TBD [27] TBD [28] TBD [28] TBD =====	
[P]: Previous Page [E]: Edit [A]: Abort [Q]: Quit	(This is the last screen; use p to view previous screen.)
Note: Abort: Exit without saving the changes. Quit : Exit and save all changes made.	
Enter Selection:	e <Enter> (Edit mode.)
===== = Please select coil number and enter Site Coil Name = ===== To end edit mode, press 'Return' key =====	
Enter Coil index number :	Enter desired coil #. (Example: 21 for "DUAL")
-----> GE Coil Name: DUAL Modify GE Coil Name Y/N [N]:.....	<Enter> (For new coil only)
Please enter Site Coil Name:.....	Enter Site's name for coil. (Example: Dual Eye, Eye , etc.)
Note: The Surfmap tool does not check the Signa Config file to verify if the entered coil name exists (same upper/lower case). Enter the name just as it appears in the Signa Config file! (If necessary, use CNTL-C to abort out of Surfmap at the "Please enter Site Coil Name:" prompt.)	
Modify Coil Parameters Y/N [N]:.....	<Enter> (For new coil only)
<i>The updated coil name list is then displayed (for example, if "DUAL" was changed to "EYE"):</i>	

OUTPUT/PROMPTS	INPUT/COMMENTS
= GE Surface Coil Name = Site Surface Coil Name =	
=====	
[20] PELVIC	[20] PELVIC
[21] DUAL	[21] EYE <----- (Example of new site coil name.)
[22] KNEE	[22] KNEE
[23] QUADEXT	[23] QUADEXT
[24] TBD	[24] TBD
[25] TBD	[25] TBD
[26] TBD	[26] TBD
[27] TBD	[27] TBD
[28] TBD	[28] TBD
=====	
[N]: Next Page [E]: Edit [A]: Abort [Q]: Quit	
Note:	
Abort: Exit without saving the changes.	
Quit : Exit and save all changes made.	
Enter Selection:	q <Enter> (Exit & save.)
..... surface_coilmap updated	
{sdc@<sysid>} [3]	Type Exit <Enter> to close the C-Shell window.

4- ADDING A NEW COIL

Note

Important! The site specific coil name(s) must be present in or added to the Signa Configuration File before changing them in the Surfmap file. Otherwise the Surfmap program will not recognize/accept the new coil(s).

1. To add a new coil, enter SURFMAP (refer to Section 2) and proceed to the last coil name screen (i.e. use N until "TBD" coil names appear). Continue as follows. Refer to Table 4-1 for outputs/inputs.

TABLE 4-1
ADDING A NEW COIL

OUTPUT/PROMPTS	INPUT/COMMENTS
<pre>===== = GE Surface Coil Name = Site Surface Coil Name = =====</pre>	
<pre>[20] PELVIC [20] PELVIC [21] DUAL [21] DUAL [22] KNEE [22] KNEE [23] QUADEXT [23] QUADEXT [24] TBD [24] TBD [25] TBD [25] TBD [26] TBD [26] TBD [27] TBD [27] TBD [28] TBD [28] TBD</pre>	<----- (First TBD entry.)
<pre>===== [P]: Previous Page [E]: Edit [A]: Abort [Q]: Quit</pre>	
<pre>Note: Abort: Exit without saving the changes. Quit : Exit and save all changes made.</pre>	
<pre>Enter Selection:</pre>	e <Enter> (Edit mode.)
<pre>===== = Please select coil number and enter Site Coil Name = ===== To end edit mode, press 'Return' key =====</pre>	
<pre>Enter Coil index number :</pre>	Enter # of first "TBD" entry. (24 for above example)
<pre>-----> GE Coil Name: TBD Modify GE Coil Name Y/N [N]:.....</pre>	Y <Enter>
<pre>Please enter GE Coil Name:.....</pre>	Enter new coil name (e.g. FOOT). (To abort from this prompt type: TBD <Enter> .)
<pre>Please enter Site Coil Name:.....</pre>	Enter Site's name for coil. (Example: Big Foot .)
<pre>Modify Coil Parameters Y/N [N]:.....</pre>	See Note 1.

OUTPUT/PROMPTS	INPUT/COMMENTS
<p><i>If you respond Y, additional prompts are displayed. Enter the appropriate coil parameters (e.g. # phantoms, # Receivers, etc.) per Service Note or other instructions.</i></p>	
<pre>Coil Parameters for <coilname> Number of Phantoms : (1..4) [1] :..... Number of Receivers: (1..4) [1] :..... Phantom Diameter : (10..80) [10] :..... X Coordinate for Phantom 0 (32..224) [128] :..... Y Coordinate for Phantom 0 (32..224) [128] :..... Image Sequence for Phantom 0 (0..3) [0] :.....</pre>	<p>Enter appropriate value. Enter appropriate value. Enter appropriate value. Enter appropriate value. Enter appropriate value. Enter appropriate value.</p>
<p><i>Additional prompts are displayed for each phantom. After entering all coil parameters, the updated coil list is displayed:</i></p>	
<pre>===== = GE Surface Coil Name = Site Surface Coil Name = ===== [20] PELVIC [20] PELVIC [21] DUAL [21] DUAL [22] KNEE [22] KNEE [23] QUADEXT [23] QUADEXT [24] <newcoilname> [24] <newcoilname> [25] TBD [25] TBD [26] TBD [26] TBD [27] TBD [27] TBD [28] TBD [28] TBD ===== ===== = Please select coil number and enter Site Coil Name = ===== To end edit mode, press 'Return' key =====</pre>	
<p>Enter Coil index number :.....</p>	<p><ENTER> to exit edit mode.</p>
<p><i>The coil name list is redisplayed with the prompt:</i></p>	
<p>Enter Selection:</p>	<p>q <Enter> (Exit & save.)</p>
<p>..... surface_coilmap updated</p>	
<pre>{sdc@<sysid>} [3]</pre>	<p>Type Exit <Enter> to close the C-Shell window.</p>

Note 1

Surface Coils use only one Receiver. They don't typically use any of the coil parameter information, so for new Surface Coils, the normal response to this prompt is N. Phase Array Coils, which use multiple phantoms and Receivers, rely on this information for ROI placement. For new coils, this information will be provided in this section or via a Service Note.

REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
0	August 5, 1998	M. Whitlow	Initial conversion from Toolbook to Word.
1	February 15, 1999	K. Keshena	Updated per engineering bay validation.
2	May 21, 1999	S.M.Atladottir	Updated Procedure References for New GUI
3	Oct 13, 1999	M. Keber	Added correct proprietary heading to document.
4	Nov 22, 1999	M. Keber	Removed Config file name check by Surfmap tool (check is no longer made beginning with Release 8.2.5).