Appendix

Technical Publication
AP-0051R0

SoftConsole Configuration Options

HF Series Generators

REVISION HISTORY

REVISION	DATE	REASON FOR CHANGE
0	DEC 28, 2011	First edition

This Document is the original English version, edited and supplied by the manufacturer.

The Revision status of this Document is indicated in the code number shown at the bottom of this page.

ADVISORY SYMBOLS

The following advisory symbols will be used throughout this manual. Their application and meaning are described below.

DANGERS ADVISE OF CONDITIONS OR SITUATIONS THAT IF NOT HEEDED OR AVOIDED WILL CAUSE SERIOUS PERSONAL INJURY OR DEATH.

ADVISE OF CONDITIONS OR SITUATIONS THAT IF NOT HEEDED OR AVOIDED COULD CAUSE SERIOUS PERSONAL INJURY, OR CATASTROPHIC DAMAGE OF EQUIPMENT OR DATA.

Advise of conditions or situations that if not heeded or avoided could cause personal injury or damage to equipment or data.

NOTE

Alert readers to pertinent facts and conditions. Notes represent information that is important to know but which do not necessarily relate to possible injury or damage to equipment.

TABLE OF CONTENTS

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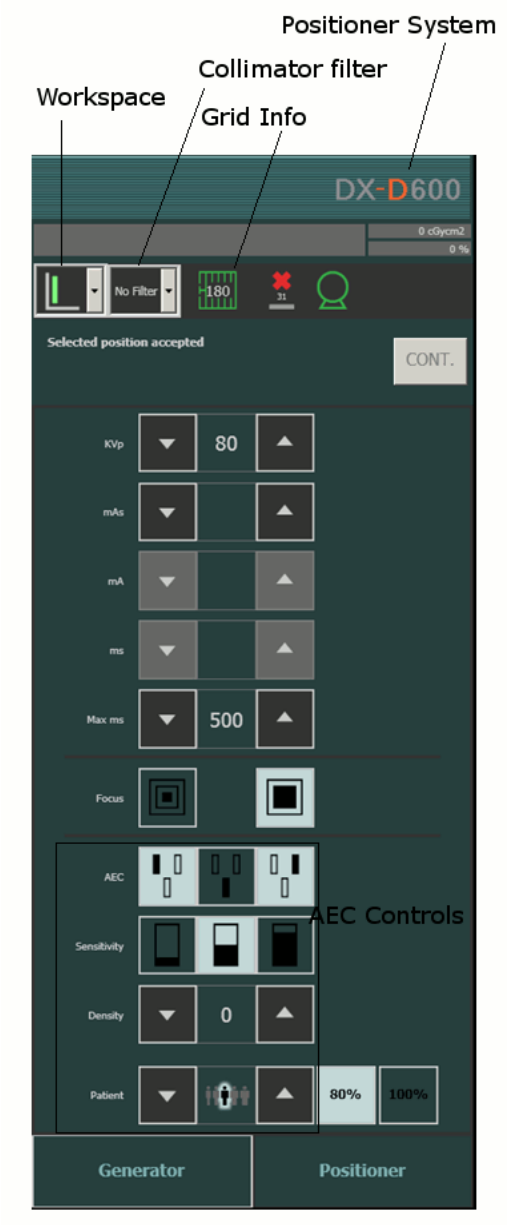
SECTION 1 INTRODUCTION

This document describes how to view and edit the different configuration options of the SoftConsole (also named SC in this Document) system.

This includes the configuration options for the X-Ray System components, such as, Positioner, Grid, AEC, etc.

Illustration 1
System Configuration Layout



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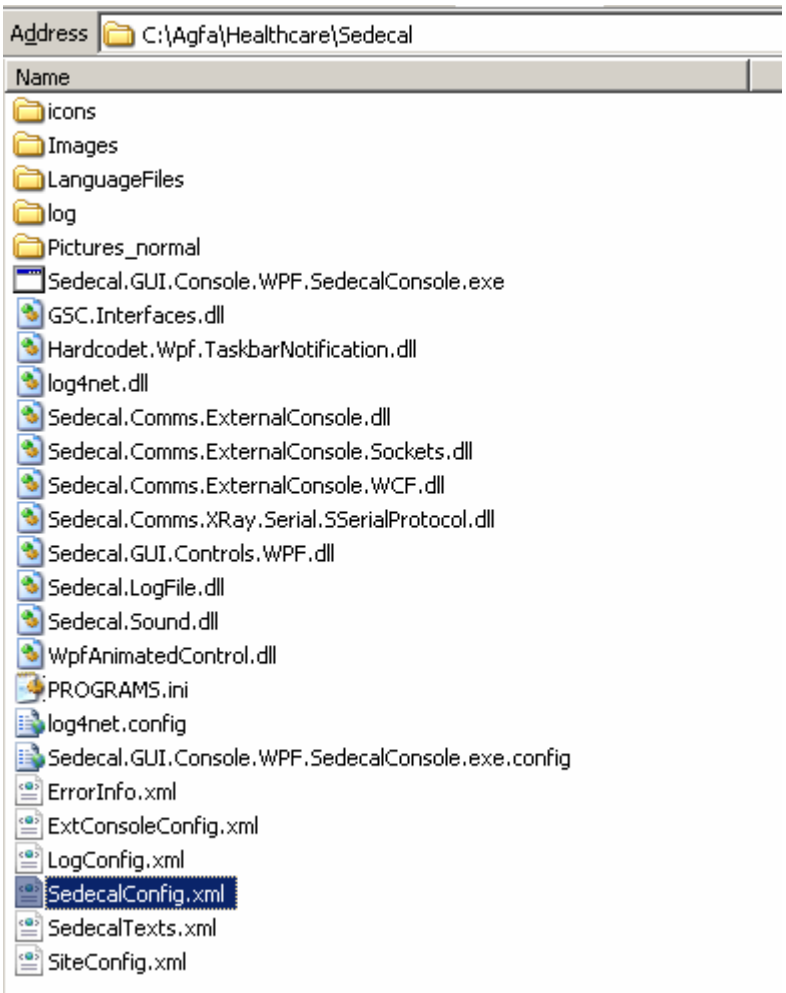
SECTION 2 HOW TO VIEW AND EDIT OPTIONS

These options are stored in the following configuration files:

- SiteConfig.xml
- SedecalConfig.xml

They are stored in the sedecal application folder, usually at C:\Agfa\HealthCare\Sedecal.

Illustration 2
File Location



The HTML Viewer can be used to revise the options; the NOTEPAD can be also used to edit/change the options.

Illustration 3
HTML Configuration View

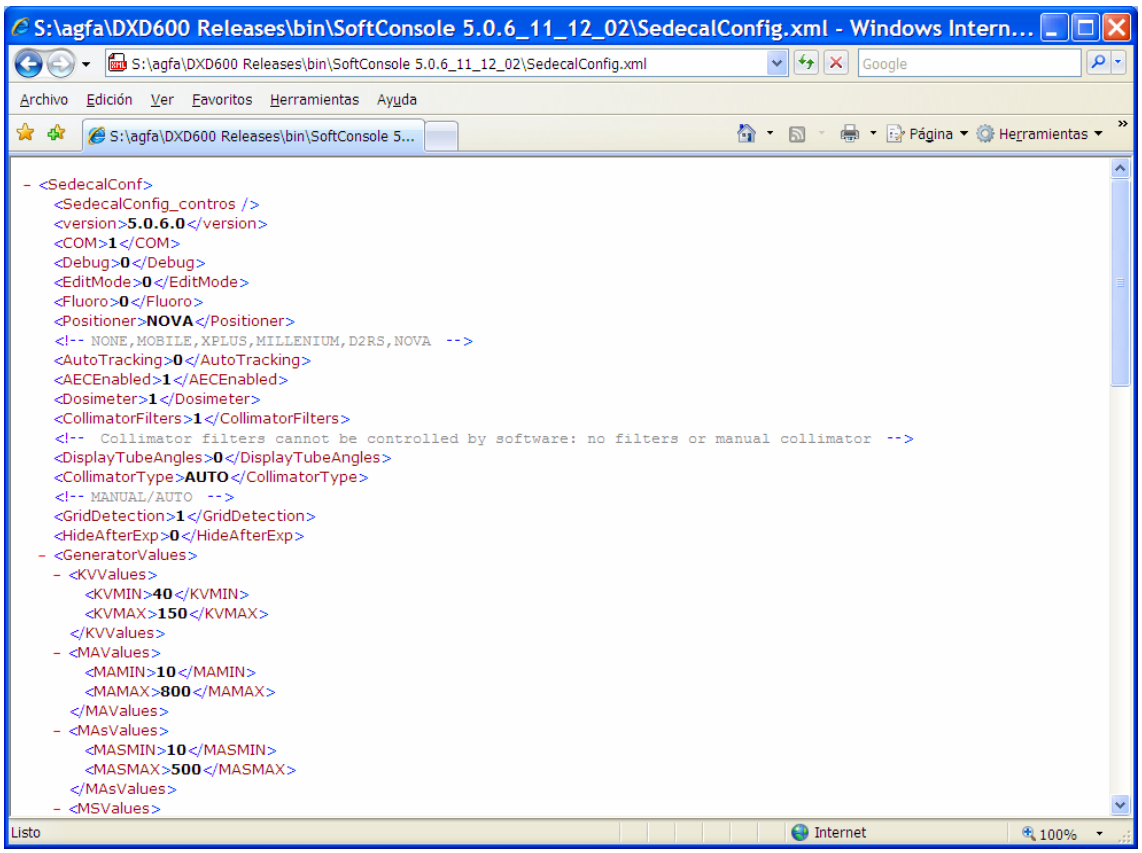
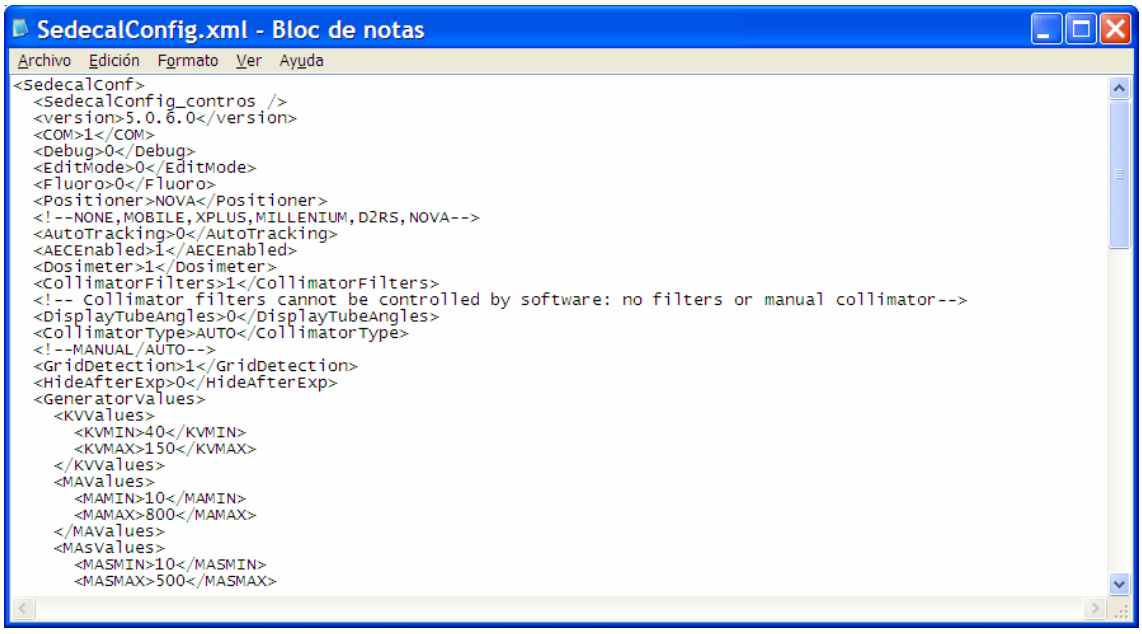


Illustration 4
NOTEPAD File Editing



2.1 MODALITY CONFIGURATION

To configure the same modalities as those used in NX, it is required to edit the SiteConfig.xml to map:

- Generator Workstation
- Modality configuration

Please consider that:

- Not all the fields found in this file need to be configured.
- Typographic errors might result in functionality problems.
- Up to 7 Modalities can be configured, each of them wrapped with the <WS> tags.
- The Workstation number is related to the hardware configuration. Therefore, check with the Techservice tool, as well as with the positioner configuration.
- For the DX-D600 system, do not use WS3.
- For more than 2 different detectors (with different serial number, not the same detector placed in a different place) management, an extra hardware is required (Tomo Bucky adaptation board A3261-03).

Table 1

Modality Configuration

WS, file *SiteConfig.xml*	
<Number>	Generator Workspace number that will be used for that detector. Possible values:**[1..8]**
<DetType>	Type of detector used for this Modality. Possible Values: **[DR, DRP, CR, Unknown]** DR, stands for Digital Radiography. Used with fixed detectors DRP, Digital Radiography Portable, used with portable dectectors. CR, Cassettes. Unknown, Used for FILM
<DetPos>	Place where the detector is. Possible Values: **[Table, Wall, Free]**
<WorkspaceName>	It is the concatenation of the <DetType> and <DetPos> fields. Possible Values: **[DRTable, DRWall,** **DRPTable, DRPWall, DRPFree,** **CRTable, CRWall, CRFree,** **UnknownFree]** This will result in the icon displayed on the SC for this modality, *see Table 2 Modality ICONS*
<RemovableGrid>	Specifies if the grids for that position are removable or fixed. Possible values: **[1, 0]** **1, grids are removable and can be read by the positioner.** **0, grids are fixed or cannot be read by the positioner.**

Table 2

Modality Icons

Icon	DetType	DetPos	WorkspaceName	Number
	DR	Table	DRTable	*See Table 14* **"DX-D Systems default values"**
	DR	Wall	DRWall	
	DRP	Table	DRPTable	
	DRP	Wall	DRPWall	
	DRP	Free	DRPFree	
	CR	Table	CRTable	
	CR	Wall	CRWall	
	CR	Free	CRFree	
	Unknown	Free	UnknownFree	

A regular configuration would be like the following,

```
<?xml version="1.0" encoding="utf-8"?>
<Workstations>
 <WS>
  <Number>1</Number>
  <Tube>2</Tube>
  <Position>16</Position>
  <WorkspaceName>DRTable</WorkspaceName>
  <DetPos>Table</DetPos>
  <DetType>DR</DetType>
  <DetParamLimits>True</DetParamLimits>
  <DetField>MAXMS</DetField>
  <DetTypedList>500,1000</DetTypedList>
  <Detmin>0</Detmin>
  <Detmax>0</Detmax>
  <RemovableGrid>1</RemovableGrid>
 </WS>
 <WS>
  <Number>2</Number>
  <Tube>1</Tube>
  <Position>0</Position>
  <WorkspaceName>DRWall</WorkspaceName>
  <DetPos>Wall</DetPos>
  <DetType>DR</DetType>
  <DetParamLimits>True</DetParamLimits>
  <DetField>MAXMS</DetField>
  <DetTypedList>550,1000</DetTypedList>
  <Detmin>0</Detmin>
  <Detmax>0</Detmax>
  <RemovableGrid>1</RemovableGrid>
 </WS>
```

```
  <WS>
    <Number>4</Number>
    <Tube>1</Tube>
    <Position>32</Position>
    <WorkspaceName>CRFree</WorkspaceName>
    <DetPos>Free</DetPos>
    <DetType>CR</DetType>
    <DetParamLimits>True</DetParamLimits>
    <DetField>MAXMS</DetField>
    <DetTypedList>550,1000</DetTypedList>
    <Detmin>0</Detmin>
    <Detmax>0</Detmax>
    <RemovableGrid>0</RemovableGrid>
  </WS>
  <WS>
    <Number>5</Number>
    <Tube>1</Tube>
    <Position>32</Position>
    <WorkspaceName>UnknownFree</WorkspaceName>
    <DetPos>Free</DetPos>
    <DetType>Unknown</DetType>
    <DetParamLimits>True</DetParamLimits>
    <DetField>MAXMS</DetField>
    <DetTypedList>550,1000</DetTypedList>
    <Detmin>0</Detmin>
    <Detmax>0</Detmax>
    <RemovableGrid>0</RemovableGrid>
  </WS>
</Workstations>
```

And it might result in a combo box like this:

Illustration 5
Icons

2.2 POSITIONER CONFIGURATION

The setting of the ***SedecalConfig.xml*** file has to be carried out taking into account the DX-D system configuration:

This option is linked with the DX-D system icon displayed on the SC:

Table 3

Positioner Configuration

DX-D system	***SedecalConfig.xml* file**	**SC DXD SYSTEM ICON**
DX-D600	<Positioner>NOVA</Positioner> <AutoTracking>0</AutoTracking>	DX-D600 ./Images/DXD600.gif
DX-D600 Autotracking	<Positioner>NOVA</Positioner> <AutoTracking>1</AutoTracking>	DX-D600 ./Images/DXD600.gif
DX-D400	<Positioner>MILLENIUM</Positioner>	DX-D400 ./Images/DXD400.gif

Table 3 (Cont.)

Positioner Configuration

DX-D system	***SedecalConfig.xml* file**	**SC DXD SYSTEM ICON**
DX-D300	<Positioner>XPLUS</Positioner>	DX-D300 ./Images/DXD300.gif
DX-D100	<Positioner>MOBILE</Positioner>	DX-D100 ./Images/DXD100.gif
Only generator control	<Positioner>NONE</Positioner>	DX-D . 00 ./Images/Logo.gif

2.3 GRID CONFIGURATION

If any of the modalities does support grid detection, the option in the SedecalConfig.xml file must be set to 1.

Table 4

Grid Detection Configuration

Grid detection, file *SedecalConfig.xml*	
No detection in any Modality	<GridDetection>0</GridDetection>
Grid detection in any Modality	<GridDetection>1</GridDetection>

The appropriate range for each grid is determined by the fields GridSWMinSID and GridSWMaxSID. Therefore, it could be configured specifically in every site or system.

Table 5

Grid Range Configuration

Grid range, file *SedecalConfig.xml*	
Grid 100	<GridSW1MinSID>70</GridSW1MinSID> <GridSW1MaxSID>130</GridSW1MaxSID>
Grid 180	<GridSW2MinSID>150</GridSW2MinSID> <GridSW2MaxSID>210</GridSW2MaxSID>
Grid 150	<GridSW3MinSID>120</GridSW3MinSID> <GridSW3MaxSID>180</GridSW3MaxSID>

2.4 AEC ICON DISPLAY CONFIGURATION

Check this option for the AEC controls to be displayed or not.

Table 6

AEC Icon Display Configuration

AEC configuration, file *SedecalConfig.xml*	
ON	<AECEnabled>1</AECEnabled>
OFF	<AECEnabled>0</AECEnabled>

2.5 COLLIMATOR CONFIGURATION

If the positioner includes a Manual collimator, please check this field.

Table 7

Collimator Type Configuration

Collimator type, file ***SedecalConfig.xml***	
Manual Collimator	<CollimatorType>MANUAL</CollimatorType>
Automatic Collimator	<CollimatorType>AUTO</CollimatorType>

If the Collimator does not use automatic filters, please check this field:

Table 8

Collimator Filters Configuration

Collimation Filters, file *SedecalConfig.xml*	
No filters (or manual)	<CollimatorFilters>0</CollimatorFilters>
Automatic Collimator	<CollimatorFilters>1</CollimatorFilters>

If the collimator does not use a dosemeter, please check this field.

Table 9

Dosimeter Configuration

Dosimeter configuration, file *SedecalConfig.xml*	
No dosimeter	<Dosimeter>0</Dosimeter>
Dosimeter	<Dosimeter>1</Dosimeter>

2.6 GUI POSITION

To resize and place the SC into a certain position on the screen, please modify the following fields (unit is pixel).

Table 10

GUI Configuration

GUI Configuration in *ExtConsoleConfig.xml*	
Origin, x-coordinate	<WindowPosX>1280</WindowPosX>
Origin, y-coordinate	<WindowPosY>0</WindowPosY>
Window width	<WindowWidth>400</WindowWidth>
Window height	<WindowHeight>1050</WindowHeight> If this value is left blank, the available windows height (without considering the windows menu bar space) is set.

2.6.1 MORE GUI OPTIONS

These options have been included when the SC shares the screen with the NX application. In this case, the SC was requested to hide/show automatically. This functionality is called “ShareDesktop”.

Table 11

More GUI options

ShareDesktop functionality, in *ExtConsoleConfig.xml file*	
Enable the “shareDesktop” functionality	<AutoHide>1</AutoHide>
Disable the “shareDesktop” functionality	<AutoHide>0</AutoHide>
When “ShareDesktop” functionality is enabled:	
Time for the SC to be displayed on top when the technique has been selected on the generator in ms.	<TopShowPreConfigTime>2000</TopShowPreConfigTime>
Time for the SC to be displayed on top when an exposure has been done in ms.	<TopShowPostConfigTime>5000</TopShowPostConfigTime>

2.7 MOBILE UNIT OPTIONS

When the SC is running in a Mobile unit, special power off options are implemented.

Table 12

Mobile Options

Mobile options, in *ExtConsoleConfig.xml* file	
Do not turn off the Mobile unit automatically.	<AvoidInactivity>1</AvoidInactivity>
Turn off the Mobile unit after 30 minutes of no usage.	<AvoidInactivity>0</AvoidInactivity>
Time period that the SC waits to request the generator to power off and remove the power (time in ms). It Should be long enough to allow a NX & OS clean shutdown.	<ShutdownTimer>120000</ShutdownTimer>

2.8 OTHER OPTIONS

Find below other configurable positioner options. However, for each system considered in this document, the actual values are correct, and there is **no need to modify them**.

Table 13

Other Options

More options, in *SedecalConfig.xml* file. **No need to modify them**	
<version>5.0.6.0</version>	SC version
<COM>1</COM>	Serial Port used to communicate with the generator.
<FilterValues>	Filter codes & text to be displayed on the SC
<GridValues>	Grid codes & text to be displayed on the SC

2.9 DEFAULT SYSTEM CONFIGURATION

The values below are the suggested configurations. However, for special rooms or installations, these values can be reconfigured.

See next page.

Table 14

DX-D Systems default values

	DX-D600	**DX-D600 Autotracking**	**DX-D400**	**DX-D300**	**DX-D100**	**DX-Dxx (generator control Only)**
<Positioner>	NOVA	NOVA	MILLENIUM	XPLUS	MOBILE	NONE
<AECEnabled>	1	1	1	1	0	TBD
<CollimatorType>	AUTO	AUTO	AUTO	AUTO	MANUAL	TBD
<CollimatorFilters>	1	1	1	1	0	TBD
<Dosimeter>	1	1	1	1	1	TBD
<WindowPosX>	1280	1280	1280	1280	724	TBD
<WindowPosY>	0	0	0	0	0	0
<WindowWidth>	400	400	400	400	300	TBD
<WindowHeight>	1050	1050	1050	1050	768	TBD
<GridDetection>	1	1	1	1	0	TBD
<AutoHide>	0	0	0	0	1	TBD
Modalities, (Refer to Section 2.1))	DRTable DRPWall DRPFree CRFree UnknownFree	DRTable DRPWall DRPFree CRFree UnknownFree	DRTable DRPWall DRPFree CRFree UnknownFree	DRTable CRFree UnknownFree	DRPFree CRFree UnknownFree	TBD

Table 15

Default Generator and Positioner WS Configuration

Default WS configuration	WS1	WS2	WS3	WS4	WS5	WS6
DX-D600	Bucky 1	Bucky 2	NOT USED	Bucky 1 * Bucky 2	Direct	Direct
	AEC1	AEC2		AEC0	AEC0	AEC0
	HW signal on Table	HW signal on Wall		Free	Free	Free
	DRPTable DRTable	DRPWall DRWall		DRPFree	CRFree	Unknown
DX-D400	Bucky 1	Bucky 2	Bucky 1 * Bucky 2	Direct	Direct	
	AEC1	AEC2	ACE0	AEC0	AEC0	AEC0
	Interlock 1	Interlock 2	Interlock 0	Interlock 0	Interlock 0	
	HW signal on Table	HW signal on Wall	Free	Free	Free	
	DRPTable DRTable	DRPWall DRWall	DRPFree	CRFree	UnknownFree	
DX-D300	Bucky 1	Direct	Direct	Possibility to control another detector (bucky2)		
	AEC1	AEC0	AEC0			
	HW signal on detector cover	Free	Free			
	DRTable	CRFree	UnknownFree			
DX-D100	Bucky 1	Direct	Direct	Possibility to control another detector (bucky2)		
	AEC1	AEC0	AEC0			
	Free	Free	Free			
	DRPFree	CRFree	UnknownFree			

** Set the WS configuration depending on the modality configuration.*

- *If a Portable detector is being used in Table and Free positions, set Bucky 1*
- *If a Portable detector is being used in Wall and Free positions, set Bucky 2*
- *If a Portable detector is NOT in use, set it as Direct.*