

ACUSON Sequoia Ultrasound System

Measurement Configuration
3.5 (VB30)

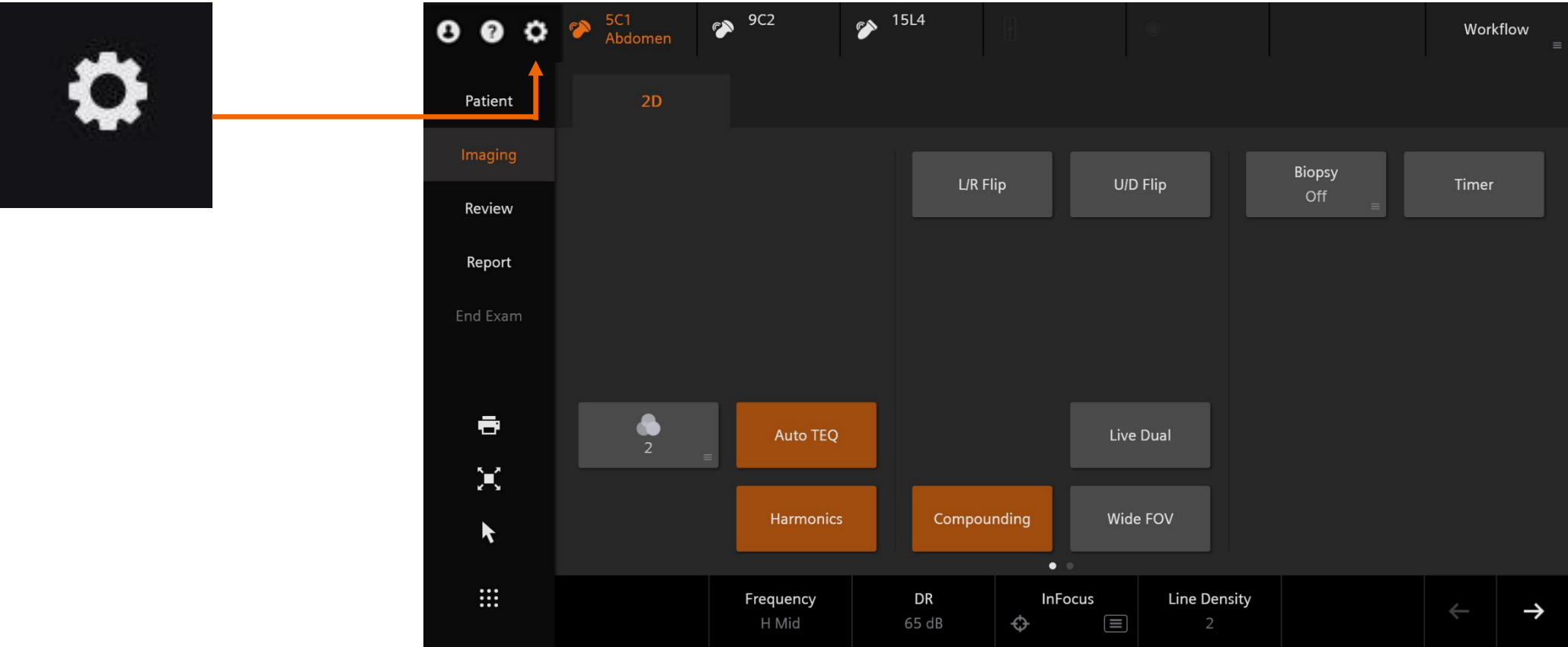


Objectives

- **Identify access to system configuration**
- Outline the measurement subgroup
- Describe the Touch Screen configuration
- Explain custom measurement labels
 - Homepage layout
 - What is DICOM SR?
 - Steps to define a custom label
 - Create a new custom label
- Describe Custom Calculations
- Discuss the OB tables
- Review the report



Measurement configuration access



Measurement & Report configuration home page

▼ Measurement & Report

Measurement

Touch Screen Measurement Config

Custom Measurement Label

Custom Calculations

Report

OB Tables

System Configuration

System Settings

Workflow Enhancement

Imaging Settings

Measurement & Report

Measurement

Touch Screen Measurement Config

Custom Measurement Label

Custom Calculations

Report

OB Tables

Annotations

Features

Transducer

Connectivity & Network

Peripheral Devices

System Management

General

Exam Package

Exam Specific

Per Label Configuration

2D Mode

2D Calipers

☐ Draw Dotted Lines Between Calipers

Doppler Mode

Velocity

☒ Show Negative Symbol

Heart Rate Tool

Number of Heart Cycles

2

Calculation Display Area

Both	Measured Results	Report	Calculations
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal M-Mode)LV CO
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal M-Mode)LV EF
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal M-Mode)LV Mass
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal M-Mode)LV SV
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal M-Mode)LV Vol d
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal M-Mode)LV Vol s
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)Ao Root/MPA Diam
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)AoV Annulus Area s
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)AoV Area (Vmax)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)AoV Area (VTI)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)AoV AT/ET
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)AoV SV
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)AoV/PV Annulus s
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)APADxTAD
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)AR PHT
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)BPDa
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)CCO
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)CI
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)Cor Sinus Length/Diam
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)CTR Area
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)CTR Circum
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(Fetal)Ductus V SID Vmax

Restore Defaults

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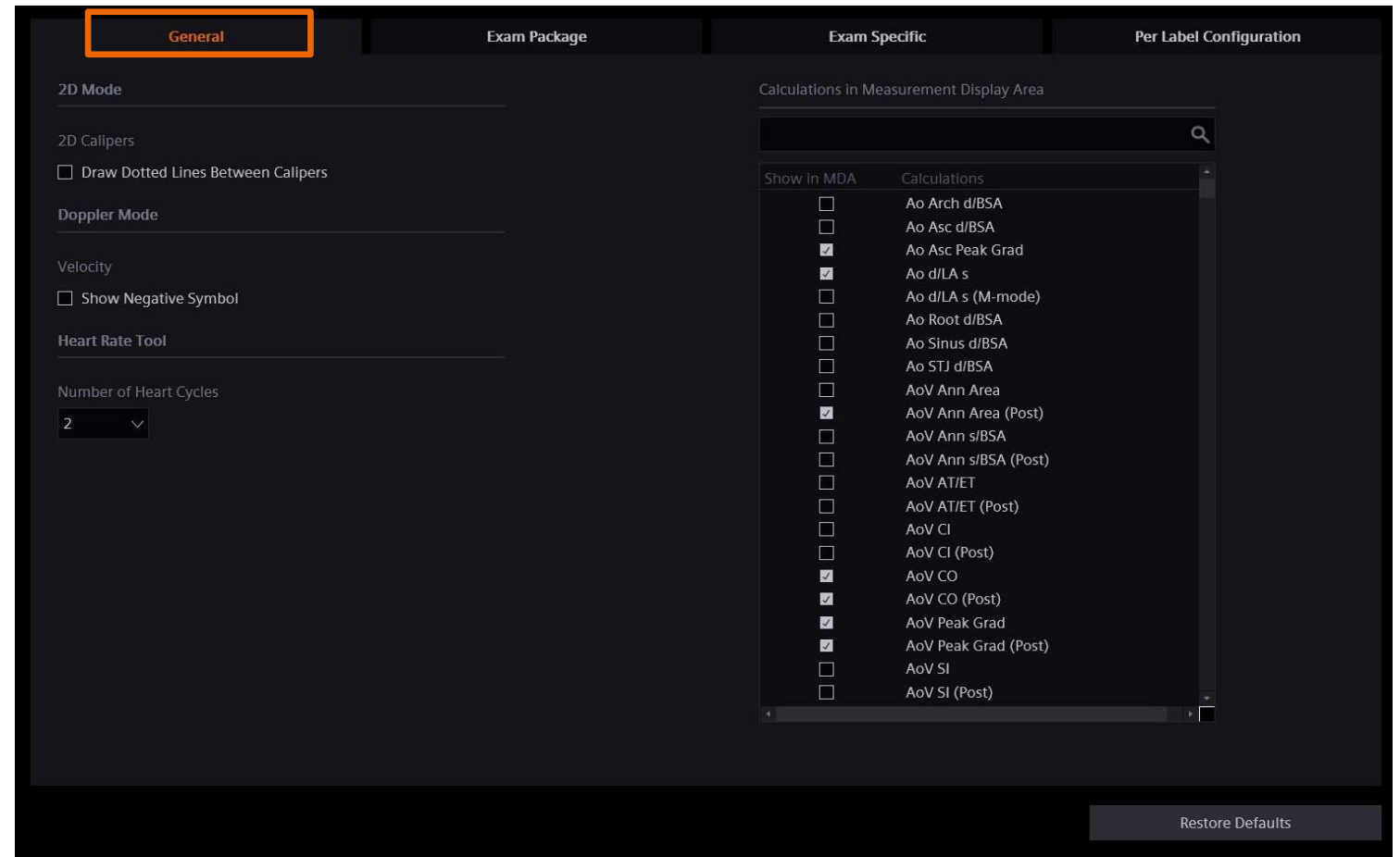


Measurement subgroup

General tab

System wide settings for:

- Dotted line between calipers
- Heart rate tool
- Show negative symbol
- Measurement Display Area (MDA) configuration



Measurement subgroup

Exam Package tab

Individual exam package settings for:

- Cine measurement behavior
- 2D measurement tool type
- Doppler default tool type
- Volume Flow Tool
- Individual label precision and unit

Exam Package

Abdomen

CINE Measurement Behavior

- ☒ Erase in CINE

2D Tools

Volume Tool

3 Distances

Area %Stenosis Tool

Ellipse + Trace

Generic Area Ratio Tool

Trace

Doppler Tools

Default Tool

Velocity

Volume Flow Tool

Volume

Distance

Flow

Heart Cycle

Result Format

	Show	Unit	Precision
IVS		cm	0.00
LVPW		cm	0.00
LVID		cm	0.00
%Stenosis		%	0
A	<input checked="" type="checkbox"/> Show	cm ²	0.00
A (B)		cm ²	0.00
A (E)		cm ²	0.00
Accel	<input checked="" type="checkbox"/> Show	cm/s ²	0.0
Angle		°	0
Area Ratio			0.00
AT	<input type="checkbox"/> Show	ms	0
Average Distance		cm	0.00
C		cm	0.00
C10	<input type="checkbox"/> Show	mm	0.00
D		cm	0.00
D (B)		cm	0.00

Restore Defaults: Abdomen

Measurement subgroup

Exam Specific tab

OB exam options for:

- Date display types (screen)
- Standard deviation
- Ratio display types (report)
- Measurement tool types
- Auto OB

Prostate specific gravity options

- 1.0
- 1.05

Carotid Ratio default selections

The screenshot shows the 'Exam Specific' configuration tab in a Siemens Healthineers interface. The tab is highlighted with an orange border. It contains settings for three exam types: OB Exam, Prostate Exam, and Carotid Exam.

OB Exam:

- Display OB/GYN Dates on the Screen:
 - ☒ LMP/DOC
 - ☐ Clinical Age
 - ☒ EDD
 - ☒ EFW
- Display Averaged GA or \pm SD on Touch Screen: **Gestational Age**
- Display Averaged GA or \pm SD in Measured Results: **Gestational Age**
- Display Out of Range: **2.5**

Auto OB:

- ☒ European - BPD outer to outer
- ☐ US - BPD outer to inner

Prostate Exam:

- Prostate Specific Gravity:
 - ☒ 1.0
 - ☐ 1.05

Carotid Exam:

- Carotid Ratio:
 - Dist ICA / Prox CCA
 - ☐ Max ICA
 - ☐ Prox ICA
 - ☐ Mid ICA
 - ☒ Dist ICA
 - Prox CCA
 - ☐ Max CCA
 - ☒ Prox CCA
 - ☐ Mid CCA
 - ☐ Dist CCA

Cardiac Exam:

- AI Measure: Heart Cycles Measured
- Doppler: **1**
- M Mode: **3**

At the bottom right, there is a 'Restore Defaults' button and a small status bar with icons for signal strength and battery.

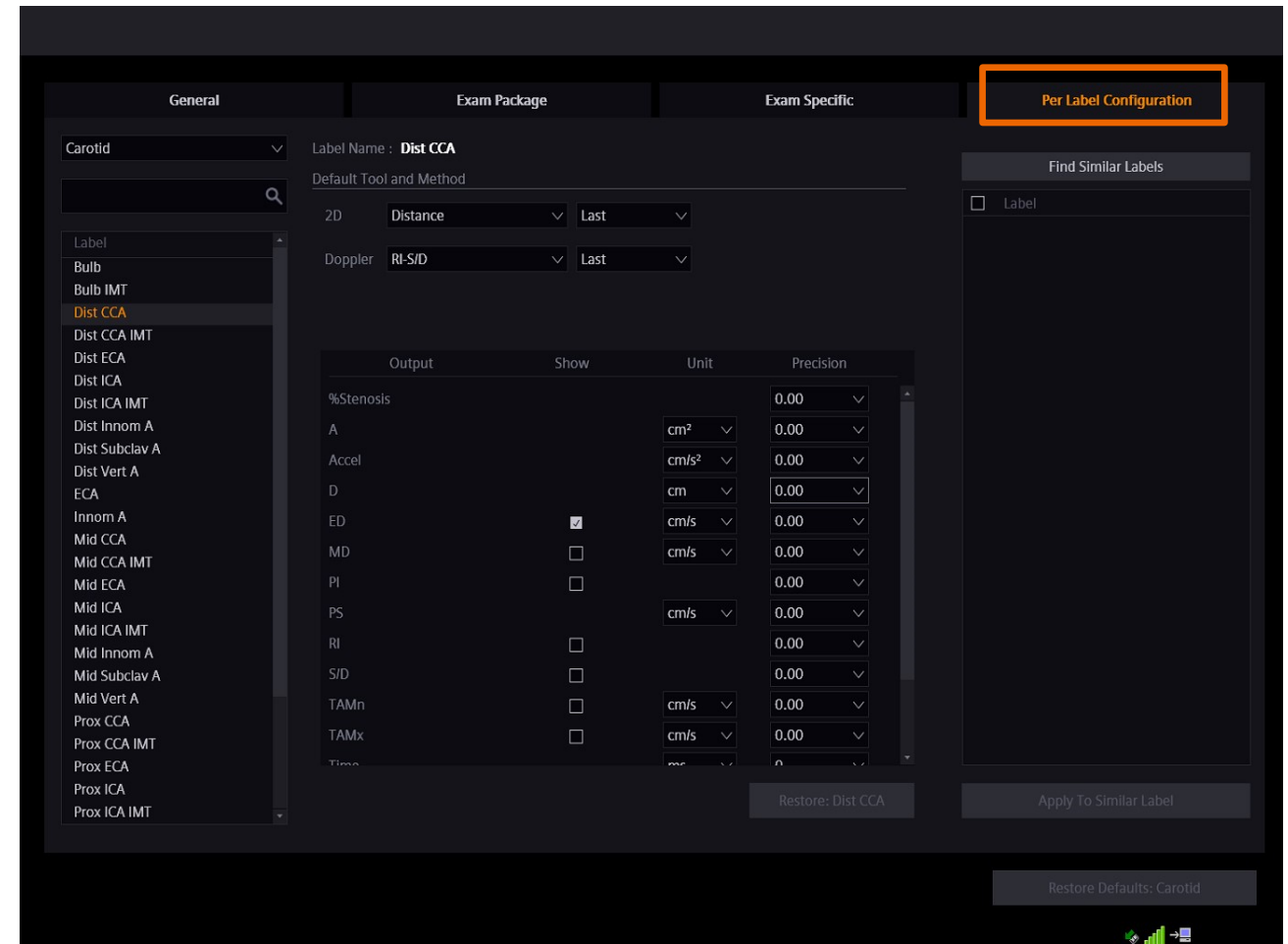
Measurement subgroup

Per Label Configuration

Labels can be configured on an individual basis for

- Unit
- Precision
- Default tool type
- Method (Last, Max, Mean, Average)
- Show/Hide in MDA

Use Find Similar Labels option to change multiple labels to the same settings.



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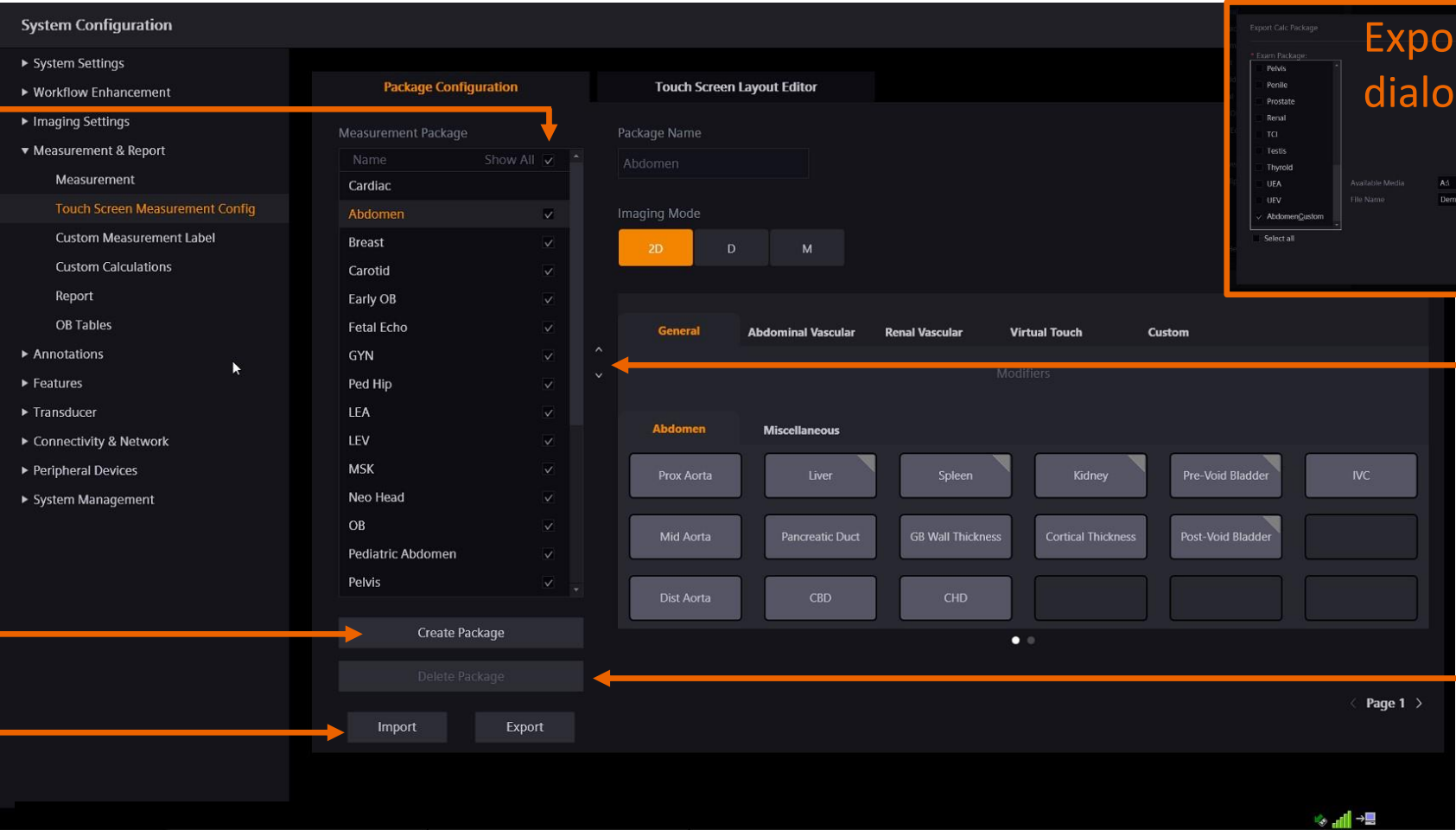


Touch Screen Measurement Config

Show/Hide
measurement
packages

Create custom
measurement
packages

Import/Export



Export
dialogue box

Re-order
measurement
packages

Delete custom
packages

Touch Screen Measurement Config

GI example

Touch Screen mode

Exam type

Label search field

Touch Screen layout grid

Master list of label options

Add new page

Package Configuration

Touch Screen Layout Editor

Imaging Mode

2D D M

General Abdominal Vascular Renal Vascular Virtual Touch Custom

Modifiers

Abdomen Miscellaneous

Prox Aorta Liver Spleen Kidney Pre-Void Bladder IVC

Mid Aorta Pancreatic Duct GB Wall Thickness Cortical Thickness Post-Void Bladder

Dist Aorta CBD CHD

New Page

Page 1

Restore Defaults: Abdomen

Specialized measurement groups

Sub-groups

Indicates a folder of measurements (i.e., volume)

Restore defaults

Touch Screen Measurement Config

Cardiac example

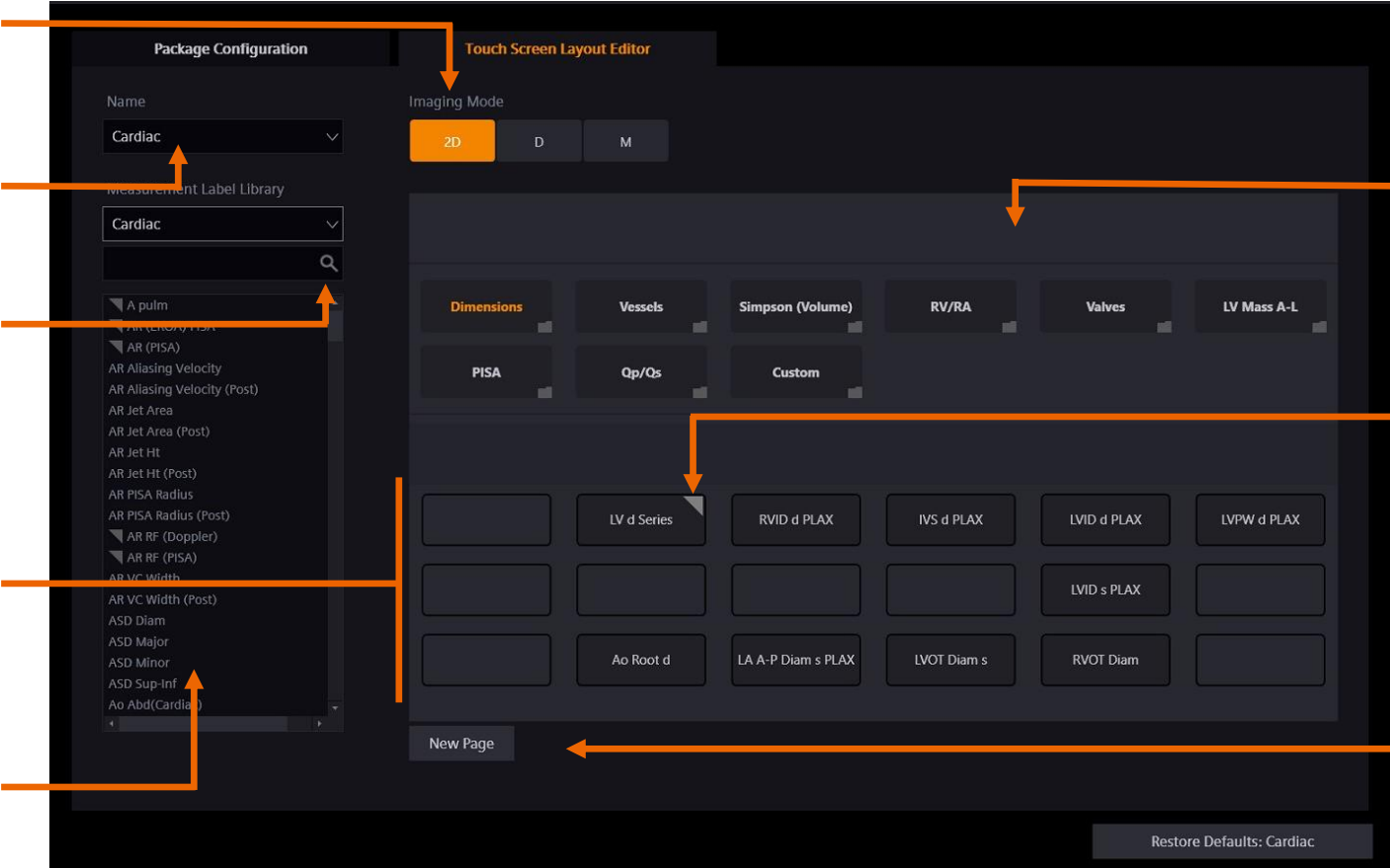
Touch Screen
mode

Exam type

Label search
field

Touch Screen
layout grid

Master list of
label options



Anatomy Folders
(two lines)

Indicates a folder
of measurements
(i.e., volume)

Add new page

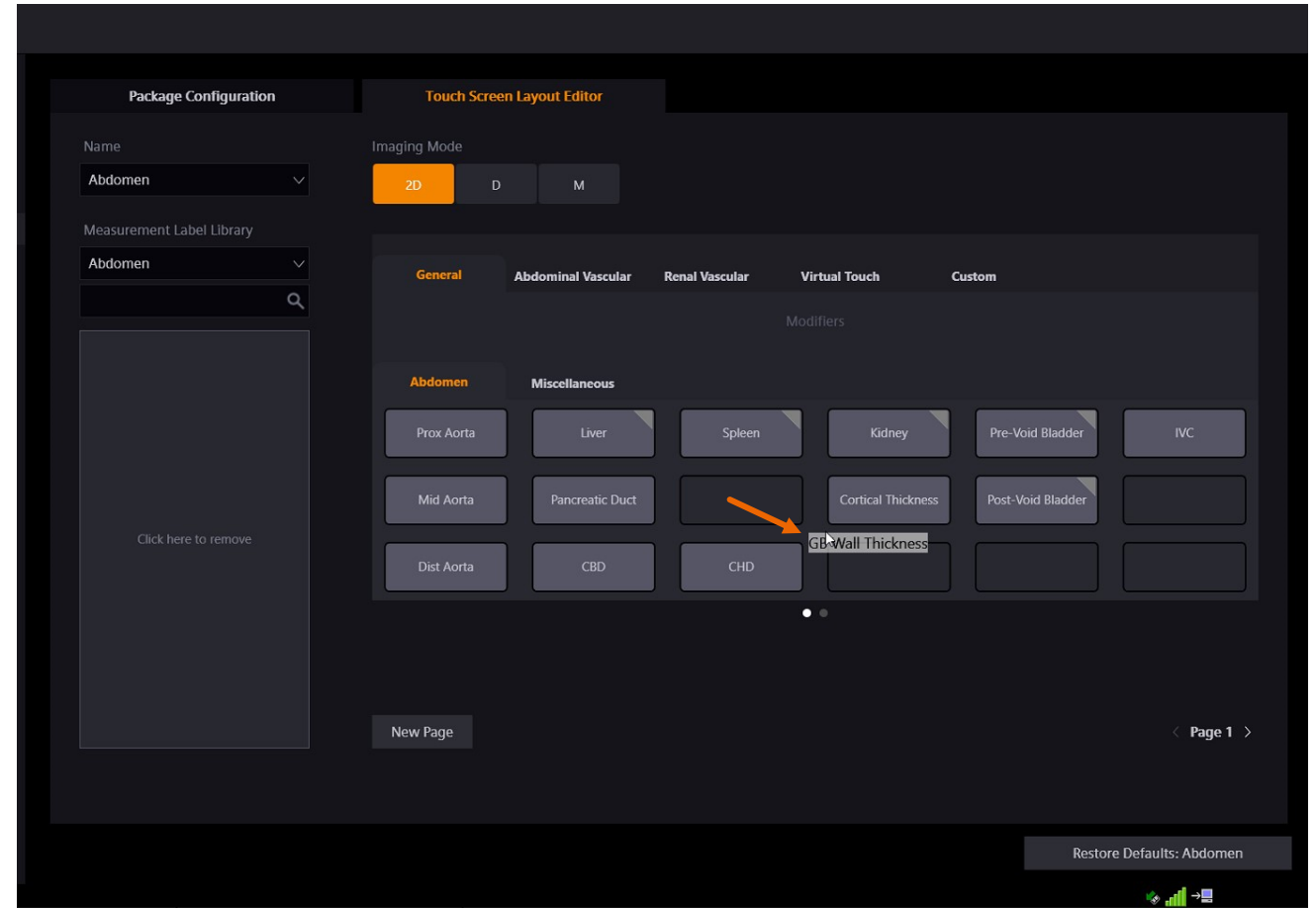
Restore defaults

Touch Screen Measurement Config

Moving labels

To move a label to different blank location on the Touch Screen:

- Use the **Pointer** and **Set** key to highlight and “pick up” the label
- Move the label to the new blank location
- Use the **Set** key to “drop” the label in the new location

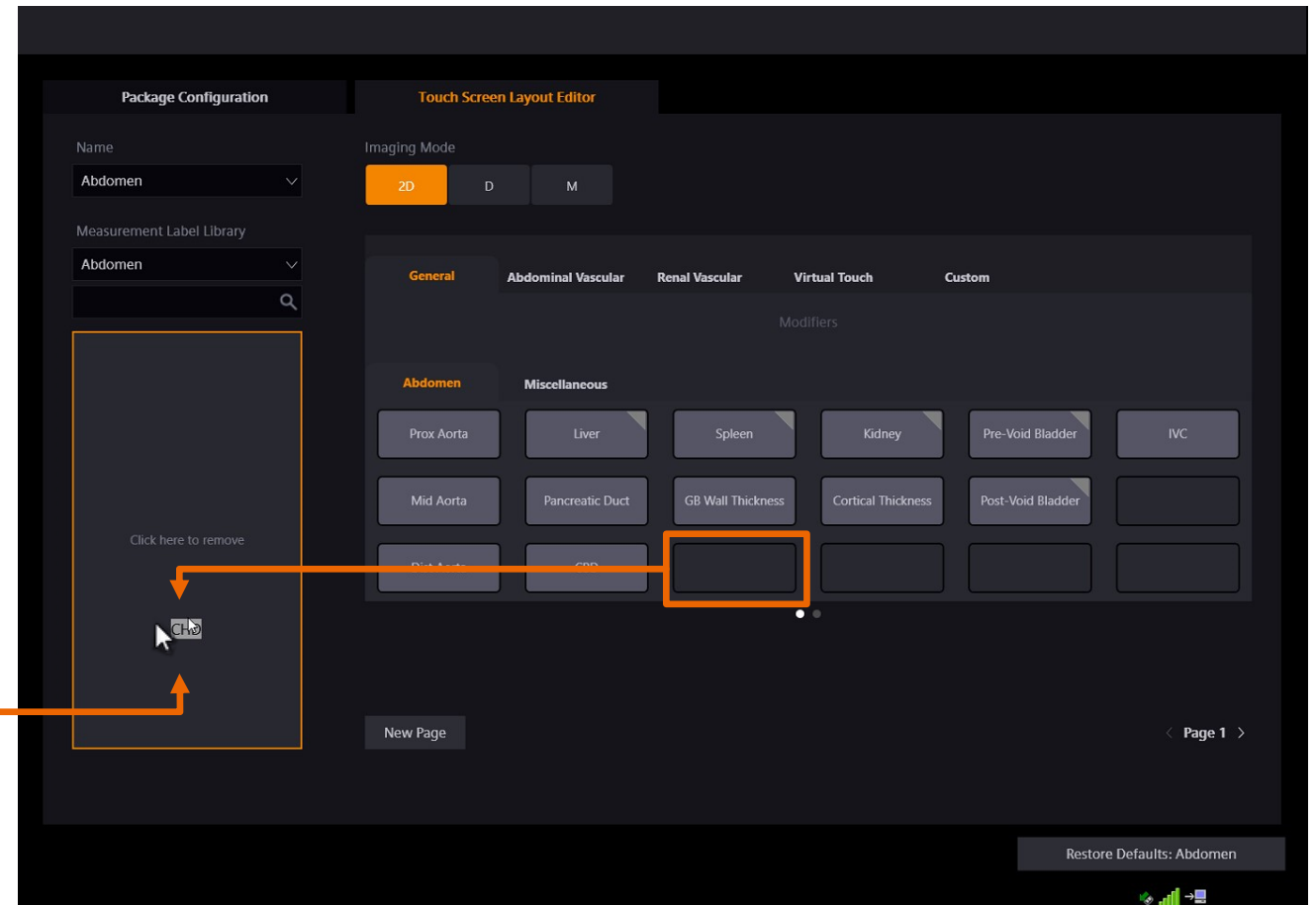


Touch Screen Measurement Config

Removing a label

Two options to remove a label:

- Pick up the label to be removed
- Drag label to master list and drop using the **Set** key, or “Double click” on the Touch Screen label



Touch Screen Measurement Config

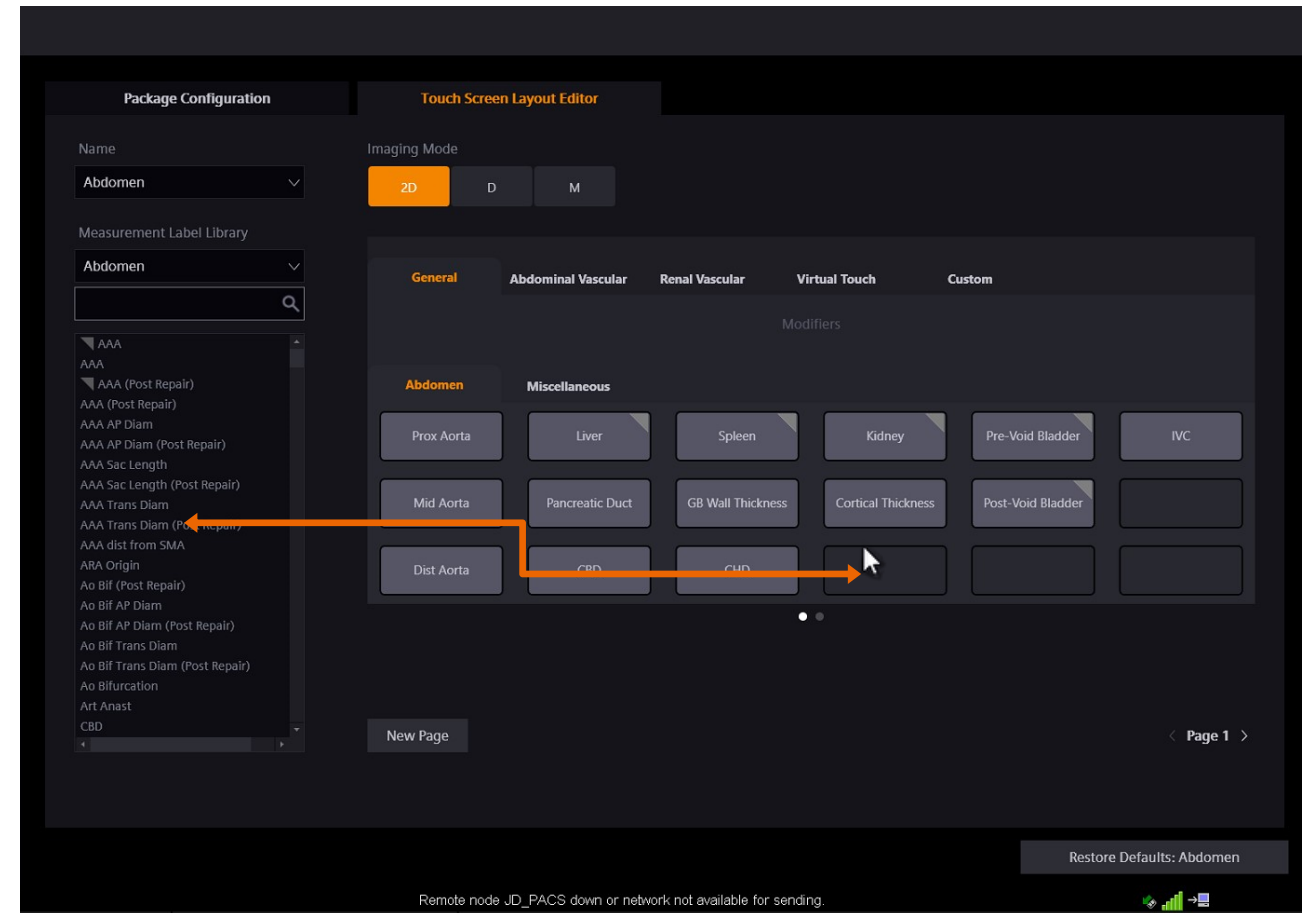
Adding a label

Adding a label:

- Find the desired label in the master list
- Pick up the label using the **Pointer** and **Set** key
- Move to desired location and place the label



To quickly add a label, double-click on the label name in the master list – the label is added to the next available label spot.



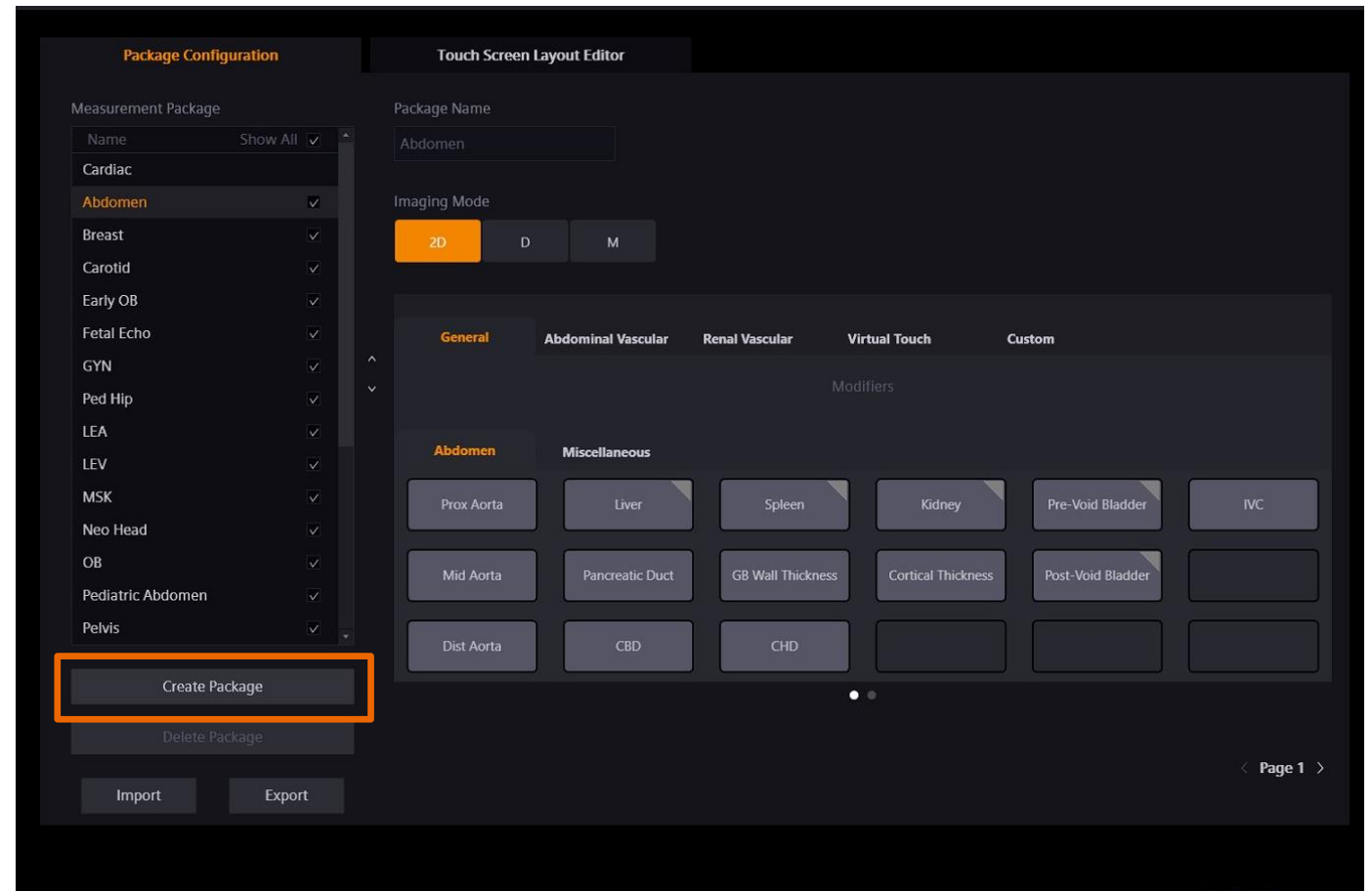
Touch Screen Measurement Config

“Blank” measurement Touch Screens

Not all exam packages have labels populated on the Touch Screen:

- MSK
- Neo Head
- TCI

Custom labels must be created for these exam packages.

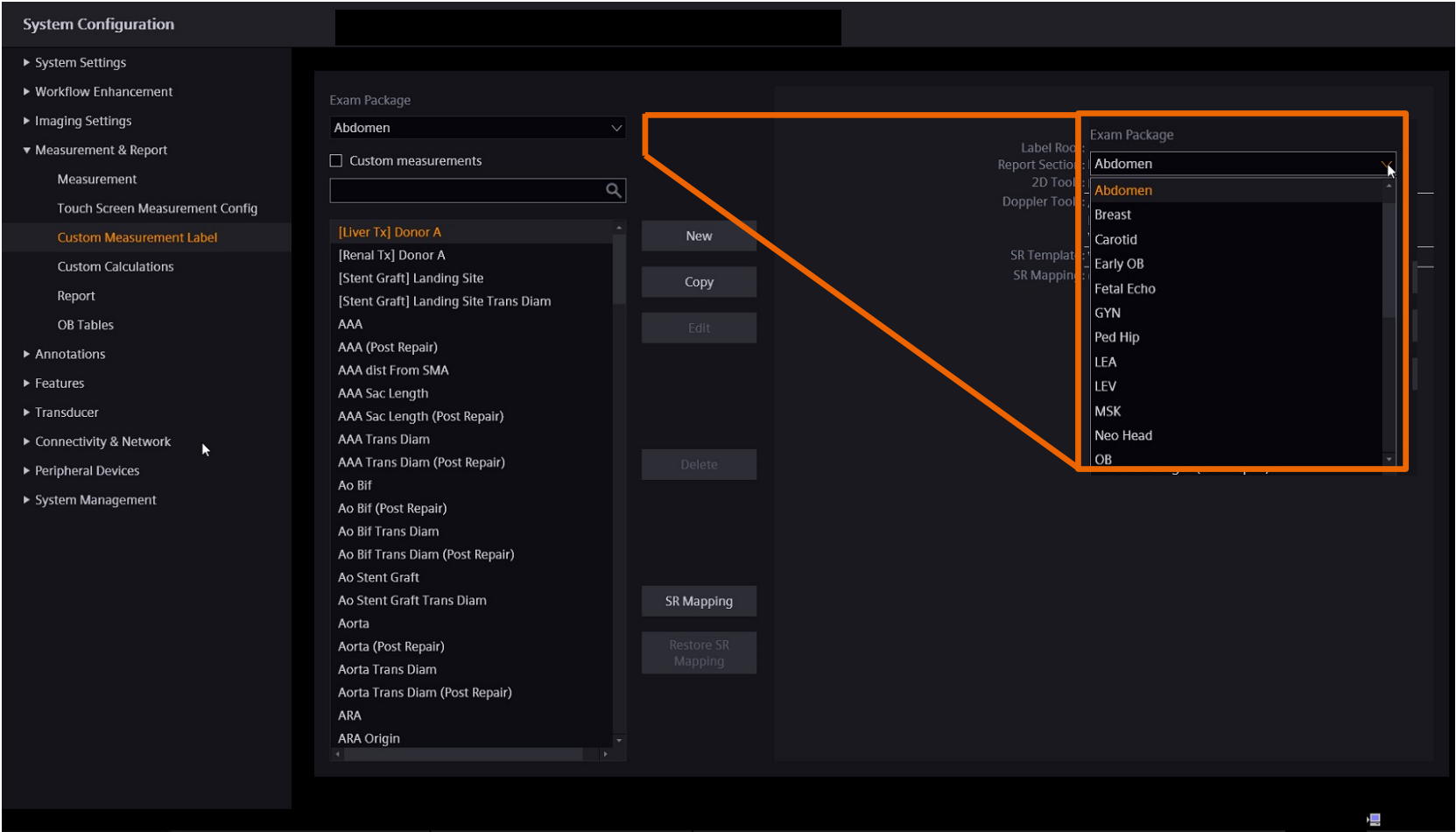


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Custom measurement label subgroup

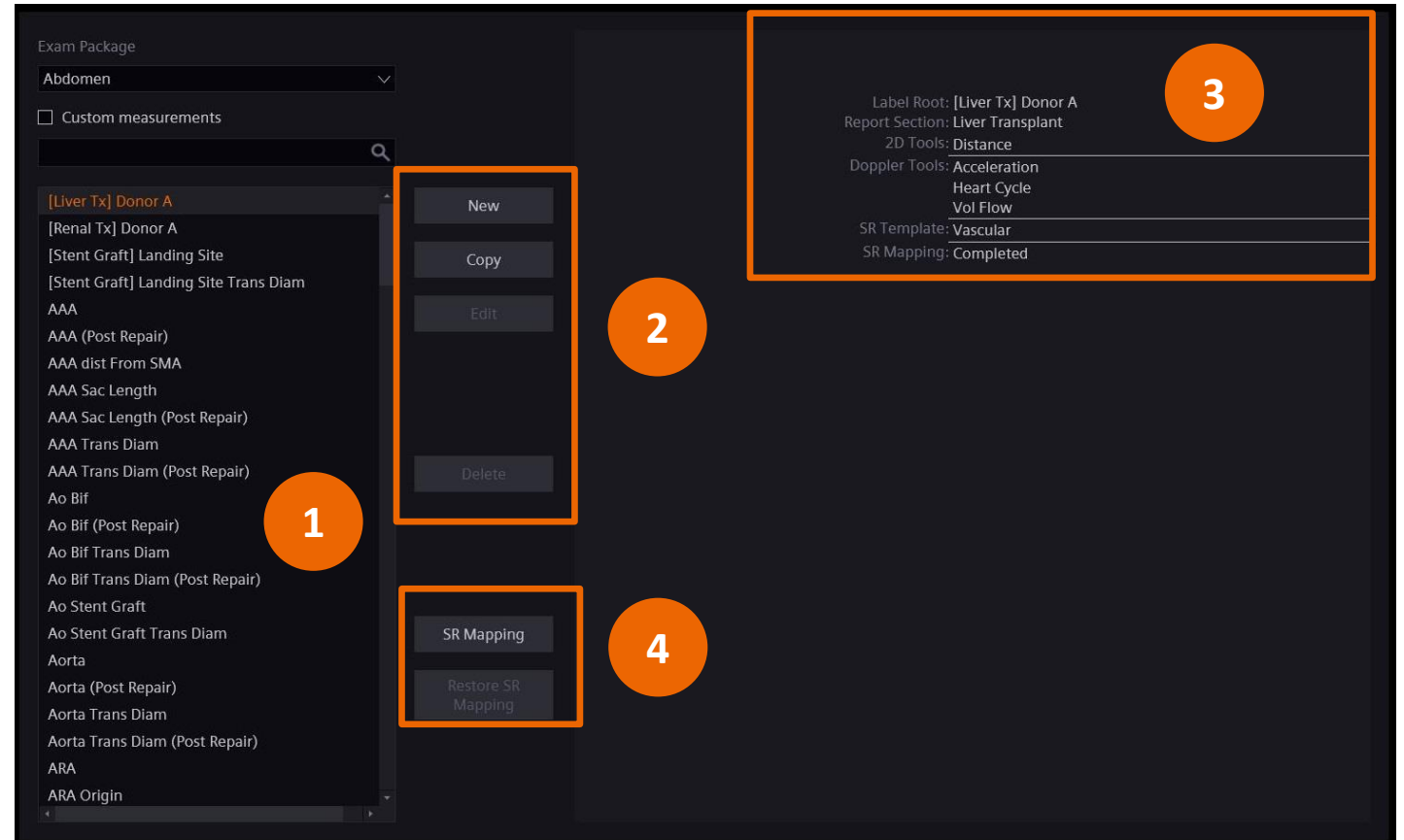
Homepage layout



Custom measurement label subgroup

Homepage layout

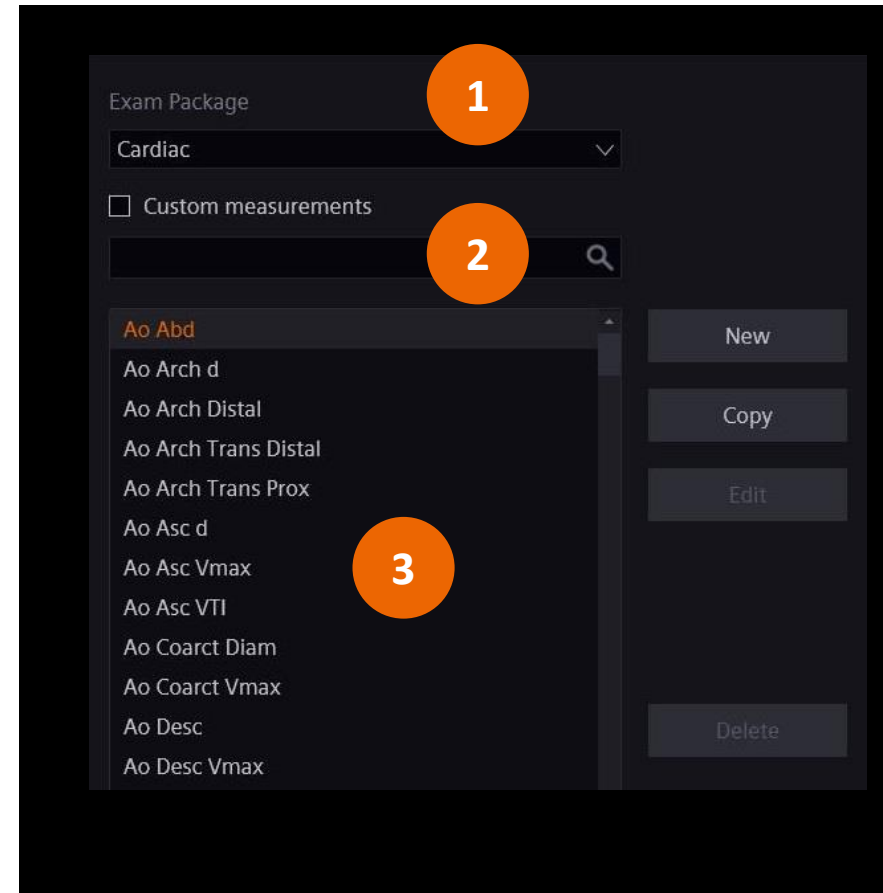
1. Master list of all labels
2. Label management options
3. Display of label information/content
4. SR Mapping options



Custom measurement label subgroup

Measurement master list display options

1. Measurement list options display
 - All measurements*
 - Custom measurements
 - Exam type
2. Search box will match any part of the name
3. Measurement master list
 - Display is based on selected list (1)
 - Alphabetical, scroll bar to view list
 - Selected label is highlighted in orange



* Virtual Touch applications, Amniotic Fluid Index quadrants, Mean Sac Diameter, and Volumes labels are currently unavailable for custom structured reporting.

Custom measurement label subgroup

Label management options

New

- Create a new custom measurement label

Edit

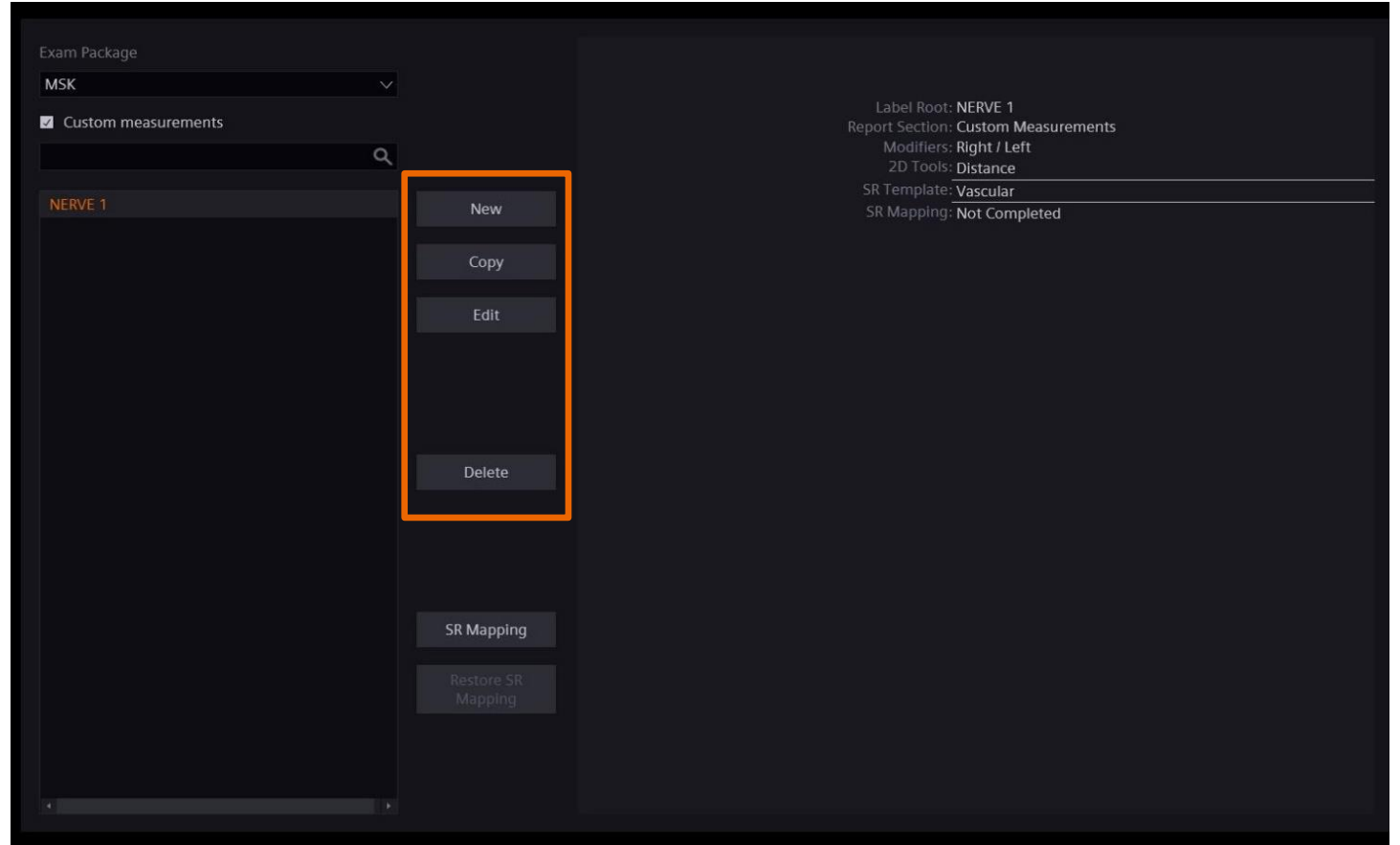
- Edit the selected custom label

Copy

- Copy a selected factory label

Delete

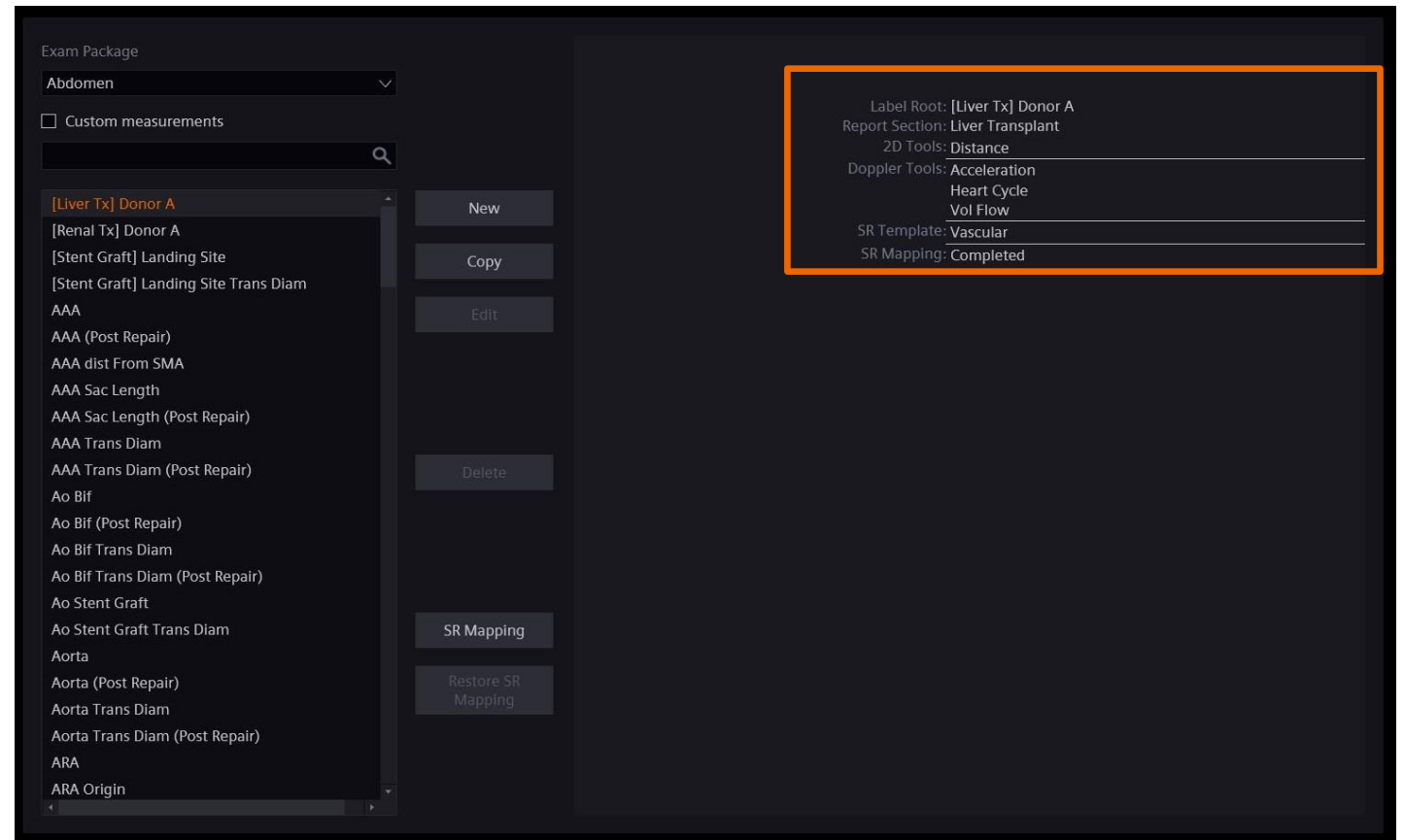
- Delete a custom label



Custom measurement label subgroup

Label information

- Highlighting a label displays a summary of the measurement information
- Use as a quick reference for mode types, attached modifiers, tool types, or report section location
- Displays general SR mapping information

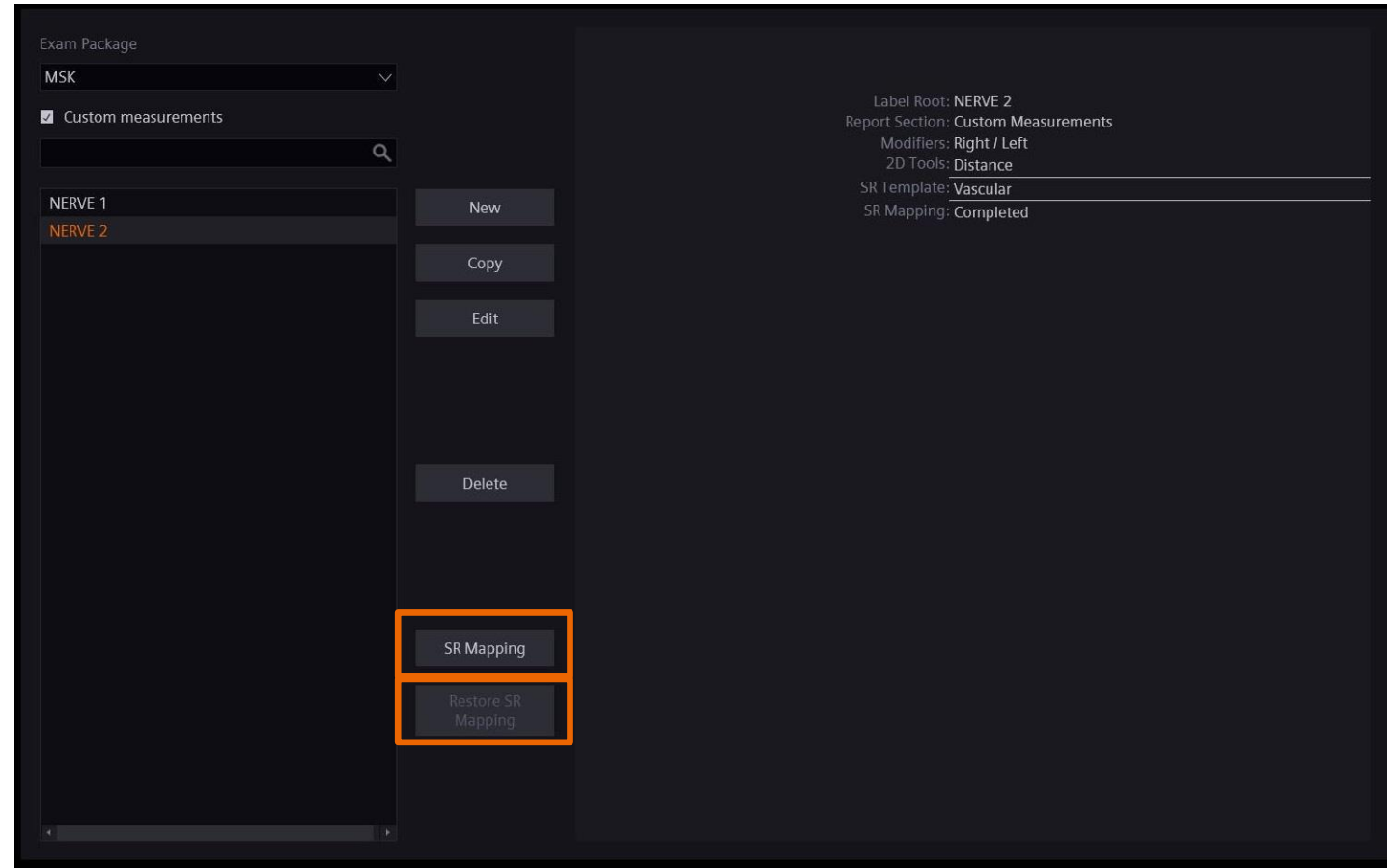


Custom measurement label subgroup

Other available functions

Other available functions include:

- SR Mapping “quick access” key
- Restore label defaults to any factory label that has been modified



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What is DICOM and DICOM Structured Reporting (SR)?

DICOM is an acronym for *Digital Imaging and Communications in Medicine*

DICOM was the result of manufacturers and users of radiological imaging equipment attempting to standardize image exchange between different systems.

This included:

- Storage of the images and all relevant information
- A network transfer mechanism

These specifications became the DICOM Standard.

The development of DICOM Structured Reporting (SR) was an extension of the initial standard; it was created to help communicate non-imaging information, such as measurements or post-processing results, in a standardized way.

What is a DICOM Structured Report (SR)?

A DICOM SR is ***not***:

- A report that can be printed “as is” on the ultrasound system or offline printer
- The customized reporting package
- An “off the shelf” (or predefined) product

A DICOM SR is

- A document consisting of structured or mapped data that defines the file content and organization for ultrasound procedure reports

This data is read by a PACS or offline workstation but requires additional software to translate the data into a format that can be printed as a tangible report.

Ultimately, a DICOM SR is a highly organized transfer mechanism between the ultrasound system and PACS or workstation.

Why is DICOM SR important to the ACUSON Sequoia ultrasound system?

In system configuration, the ACUSON Sequoia ultrasound system will allow the user to define custom measurements and associate a custom SR mapping to it.

This custom data can be transferred as a SR if it matches the mapping expected by the PACS/Offline reporting package.

Expected “mapping” behavior is only achieved if during the creation/mapping of a new measurement label the user follows the DICOM SR template structure.

If the template structure is not followed, the measurement data will not be displayed in an SR, as the PACS or offline workstation will not be able to “read” the data.

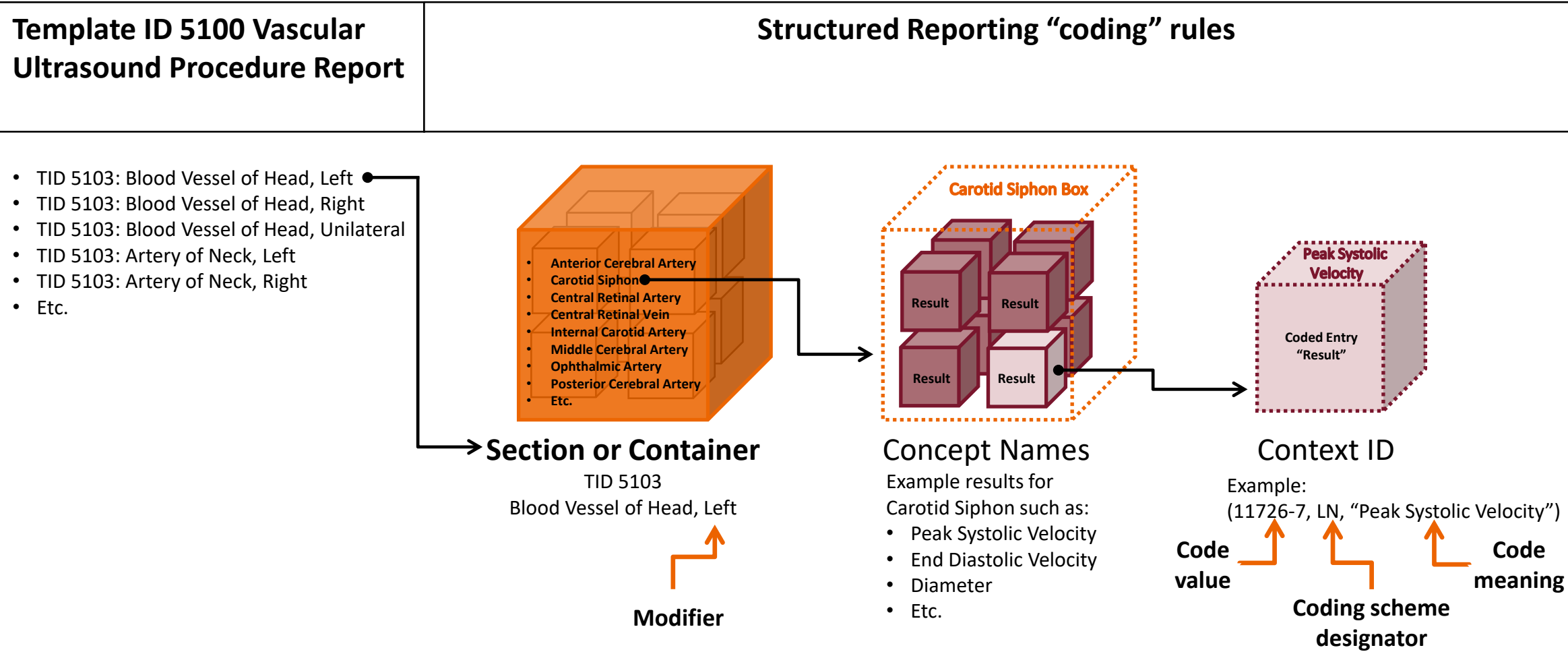
The DICOM SR template has a specific set of rules for “coding” data for a readable transfer.

The ultrasound data is constructed in sections (or “containers”) based on anatomy, which are further separated into “concept names”.

Each concept name is associated with a coded “result” which defines the specifics of that result – measurements and other data – within that concept name.

There are four templates supported by the DICOM standard for ultrasound. They are:

- OB/Gyn
- Vascular
- Adult Echocardiography
- Pediatric and Fetal Echocardiography



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Defining custom measurement labels

Creating a custom label

To create a custom label, begin by defining the label basics:

1. Label Root (name)
2. Choose exam package
3. Select modifiers (if applicable)
4. Measurement Type
5. Select segments (if applicable)

Label Root * 1
NERVE 1

Exam Package 2
MSK

Modifiers 3
☒ Right / Left

Measurement Type 4
☒ Fetal

Segments
☒ None ☐ Prox ☐ Mid ☐ Dist ☐ Origin

Tools SR Template SR Mapping 5

Imaging Mode
☒ 2D Mode
☐ Doppler Mode
☐ M Mode

Report Section
Custom Measurements

2D Mode *
Tools Label
☐ Angle
☐ Area
☐ Circumference
☐ Distance
☐ Vol MOD
☐ Area Ratio
☐ Distance Ratio
☐ Stenosis
☐ Volume
☐ IMT

* Required field

Save All & Close Cancel All

Defining custom measurement labels

Creating a custom label

Once the name and package basics have been defined, there are three tabs to complete the label parameters:

- Tools
- SR Template
- SR Mapping

The screenshot shows the 'Label Root *' field set to 'NERVE 1'. The 'Exam Package' is set to 'MSK'. The 'Modifiers' section has 'Right / Left' checked. The 'Measurement Type' is set to 'Fetal'. The 'Segments' section has 'None' checked. The 'Tools' tab is highlighted with an orange box. The 'Imaging Mode' section has '2D Mode' selected. The 'Report Section' is set to 'Custom Measurements'. The '2D Mode *' section has a list of measurement tools: Angle, Area, Circumference, Distance, Vol MOD, Area Ratio, Distance Ratio, Stenosis, Volume, and IMT. The 'Save All & Close' and 'Cancel All' buttons are at the bottom.

Defining custom measurement labels

Creating a custom label – Tools tab

The **Tools** tab defines:

1. Imaging Mode
 - 2D
 - Doppler
 - M-Mode
2. Report Section
3. Measurement tools associated with the chosen imaging mode, i.e., Distance, Area, etc.
4. Label display name options

Use Save All & Close to complete the tool selections.

The screenshot shows the 'Tools' tab in the 'Label Root *' configuration window. The 'Label Root' is set to 'NERVE 1'. The 'Exam Package' is 'MSK'. The 'Modifiers' section has 'Right / Left' checked. The 'Measurement Type' is 'Fetal'. The 'Segments' section has 'None' checked. The 'Tools' tab is selected, and the 'Imaging Mode' is '2D Mode'. The 'Report Section' is 'Custom Measurements'. The '2D Mode *' section shows 'Distance' checked. The 'Label' section shows 'NERVE 1'. The 'Save All & Close' button is highlighted.

Label Root *

NERVE 1

Exam Package

MSK

Modifiers

☒ Right / Left

Measurement Type

☒ Fetal

Segments

☒ None ☐ Prox ☐ Mid ☐ Dist ☐ Origin

Tools SR Template SR Mapping

Imaging Mode

☒ 2D Mode **1**

☐ Doppler Mode

☐ M Mode

Report Section

Custom Measurements **2**

2D Mode *

Tools

☐ Angle

☐ Area

☐ Circumference

☒ Distance **3**

☐ Vol MOD

☐ Area Ratio

☐ Distance Ratio

☐ Stenosis

☐ Volume

☒ IMT

Label

NERVE 1 **4**

* Required field

Save All & Close Cancel All

Defining custom measurement labels

Creating a custom label – SR Template tab

SR Template tab defines the:

1. SR Template
2. SR Template Section
3. Anatomy or Vessel
4. Coding Scheme Designator
5. Code Value

Use Save All & Close to complete the SR Template selections.

The screenshot shows the 'SR Template' configuration window. At the top, there are fields for 'Label Root *' (CBD3), 'Modifiers' (Right / Left), and 'Measurement Type' (Fetal). Below these are 'Exam Package' (General) and 'Segments' (None, Prox, Mid, Dist, Origin). The main area has three tabs: 'Tools', 'SR Template' (highlighted with an orange box), and 'SR Mapping'. Under the 'SR Template' tab, there are five numbered callouts: 1 points to the 'SR Template' section with radio buttons (OB/GYN, Fetal Echo, Vascular, Cardiac); 2 points to the 'SR Template Section *' dropdown (Artery of Abdomen); 3 points to the 'Anatomy or Vessel *' dropdown; 4 points to the 'Coding Scheme Designator *' text field; and 5 points to the 'Code value *' text field. At the bottom, there are 'Save All & Close' and 'Cancel All' buttons, with 'Save All & Close' highlighted by an orange box. A legend at the bottom left indicates '* Required field'.

Defining custom measurement labels

Creating a custom label – SR Template options

Anatomy or Vessel

Anatomy or Vessel *

Aorta

- Aorta
- Aortic Bifurcation
- Celiac Axis
- Common Hepatic Artery
- Common Iliac Artery
- Gastroduodenal Artery
- Inferior Mesenteric Artery
- Infra-renal Aorta
- Left Branch of Hepatic Artery
- Lumbar Artery
- Proper Hepatic Artery
- Right Branch of Hepatic Artery

SR Template Section

SR Template Section *

Artery of Abdomen

- Artery of Abdomen
- Artery of Lower Extremity
- Artery of neck
- Artery of Upper Extremity
- Bladder
- Blood Vessel of Head
- Gallbladder
- Hip (Single Concept Code)
- Hip (Double Concept Code)
- Kidney (Single Concept Code)
- Kidney (Double Concept Code)
- Liver

Coding Scheme Designator

Coding Scheme Designator *

SRT

- DCM
- SRT
- LN
- 99SIEMENS
- New...

Code value linked
to Anatomy or
Vessel entry

Label Root *

CBD3

Exam Package

General

Modifiers

Right / Left

Measurement Type

Fetal

Segments

None Prox Mid Dist Origin

Tools

SR Template

OB/GYN

Fetal Echo

vascular

Cardiac

SR Template Section *

Artery of Abdomen

Anatomy or Vessel *

Coding Scheme Designator *

Code value *

* Required field

Save All & Close

Cancel All

Defining custom measurement labels

Creating a custom label – SR Mapping tab

SR Mapping defines*

1. Tools & Output
2. Text String for SR
3. Concept Code Meaning
4. Coding Scheme Designator
5. Code Value
6. Measurement Orientation
7. Post prandial

Use Save All & Close to complete the SR Mapping selections.

*Options are for GI label coding – additional options for cardiac include Image View, Cardiac Cycle Point, Flow Direction, Finding Site, and Measurement Method

The screenshot shows the 'SR Mapping' tab in a software interface. The interface is divided into several sections:

- Top Section:** Contains 'Label Root *' (set to NERVE 2), 'Exam Package' (set to MSK), 'Modifiers' (Right / Left, Fetal), and 'Segments' (None, Prox, Mid, Dist, Origin).
- Navigation Tabs:** 'Tools', 'SR Template', and 'SR Mapping' (highlighted with an orange box).
- Tools & Outputs (Callout 1):** A list showing 'D' with a checkmark.
- Text String for SR (Callout 2):** An empty text input field.
- Concept Code Meaning * (Callout 3):** A dropdown menu set to 'Distance'.
- Coding Scheme Designator * (Callout 4):** A dropdown menu set to 'DCM'.
- Code value * (Callout 5):** A text input field containing '121206'.
- Measurement Orientation (Callout 6):** A dropdown menu with a checkmark.
- Post-prandial (Callout 7):** A checkbox that is currently unchecked.
- Buttons:** 'Previous Output', 'Next Output', 'Save All & Close' (highlighted with an orange box), and 'Cancel All'.

Defining custom measurement labels

Creating a custom label – SR Mapping options

Each tool output parameter must be defined

Optional field for a text descriptor

Related to Tool

Optional fields

Concept code meaning choice auto populates the code value

Tools & Outputs

Distance Ratio

D1

D2

Vol

Vol

D1

D2

D3

D

D

* Required field

Label Root *

NERVE 2

Exam Package

MSK

Modifiers

Right / Left

Measurement Type

Fetal

Segments

None

Prox

Mid

Dist

Origin

Tools

SR Template

SR Mapping

Tools & Outputs

D

✓ D

Text String for SR

Concept Code Meaning *

Distance

Coding Scheme Designator *

DCM

Code value *

121206

Measurement Orientation

Post-prandial

* Required field

Previous Output

Next Output

Save All & Close

Cancel All

Concept Code Meaning *

Distance

Distance

Flow Velocity

Blood velocity, minimum

Blood velocity, peak

Diameter

Volume

Circumference

Area

Distance 1 of Ellipse

Distance 2 of Ellipse

Angle

Hip alpha angle

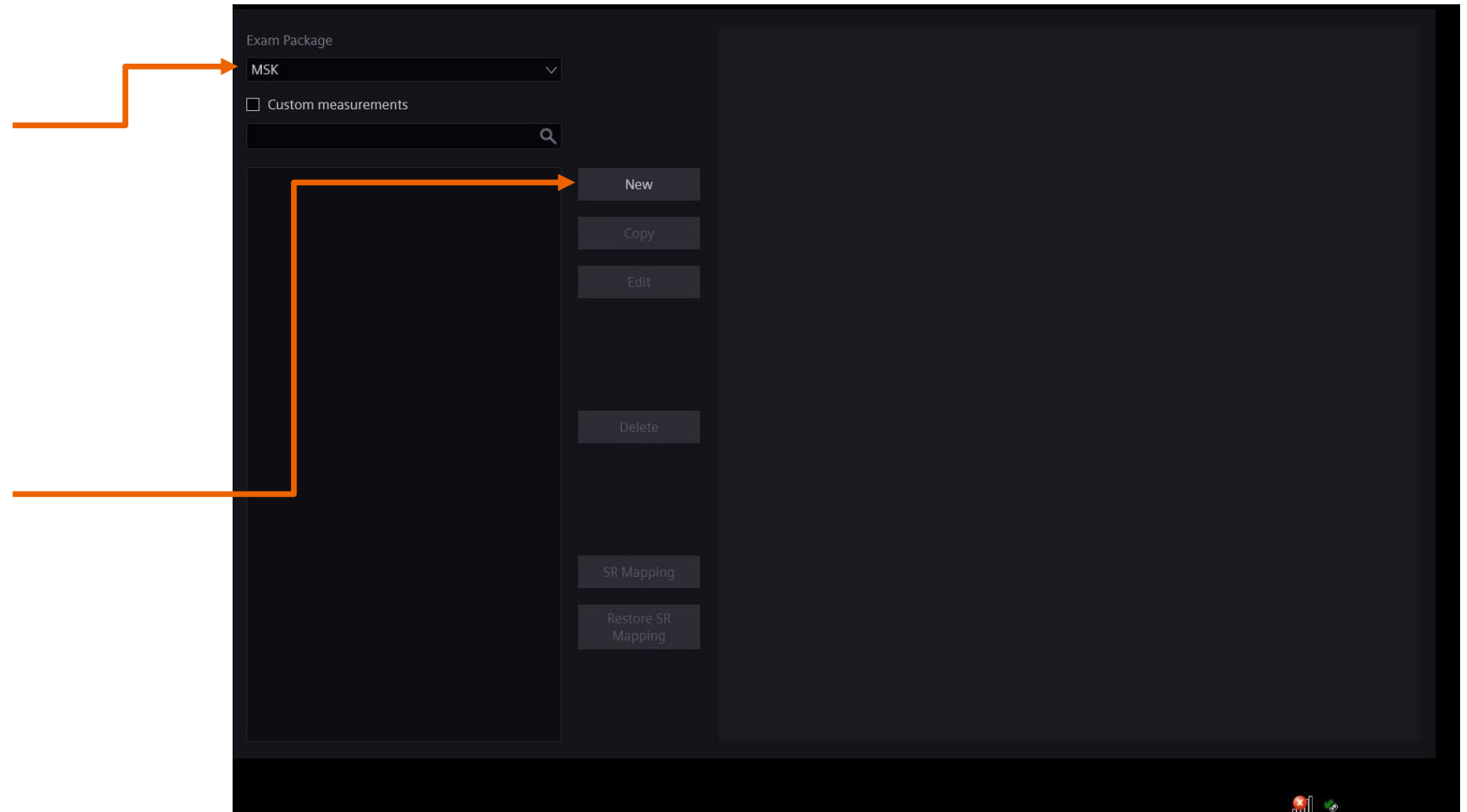
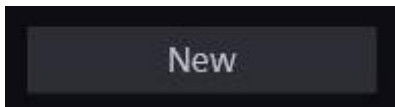
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Creating a new label – GI example

- Select the **Exam Package** to add the label to
- Select the **New** option



Creating a new label – GI example

Tools tab

- Enter the unique label name → NERVE 1
- Select the **Exam Package** from drop-down menu → MSK
- Select **Modifiers** → ☒ Right/Left
- Select **Segments** → ☒ None, ☒ Prox, etc.
- Select **Imaging Mode** → 2D Mode
- Select **Report Section** → MSK
- Select **Tool** → Distance
- Select **Save All & Close** if SR Mapping is not required, otherwise select SR Template tab

Label Root *
NERVE 1

Exam Package
MSK

Modifiers
☒ Right / Left

Measurement Type
☐ Fetal

Segments
☒ None ☒ Prox ☒ Mid ☒ Dist ☒ Origin

Tools SR Template SR Mapping

Imaging Mode
☒ 2D Mode
☐ Doppler Mode
☐ M Mode

Report Section
MSK

2D Mode *

Tools	Label
<input type="checkbox"/> Angle	
<input type="checkbox"/> Area	
<input type="checkbox"/> Circumference	
<input checked="" type="checkbox"/> Distance	NERVE 1
<input type="checkbox"/> Vol MOD	
<input type="checkbox"/> Area Ratio	
<input type="checkbox"/> Distance Ratio	
<input type="checkbox"/> Stenosis	
<input type="checkbox"/> Volume	
<input type="checkbox"/> IMT	

* Required field

Save All & Close Cancel All

Creating a new label – GI example

SR Template tab

- Pre-selected SR Template → Vascular*
- Select the **SR Template Section** from drop-down menu → User Defined Results
- Select/input **Anatomy or Vessel** → Wrist
- Select or create new **Coding Scheme Designator** → 99 MAYO
- Enter the Code Value → 1234567890**
- Selecting **Save All & Close** will stop the SR Mapping process***

The screenshot shows the 'SR Template' tab in a software interface. At the top, there are fields for 'Label Root *' (containing 'NERVE2'), 'Modifiers' (with 'Right / Left' selected), and 'Measurement Type' (with 'Fetal' selected). Below these are 'Exam Package' (set to 'General') and 'Segments' (with 'None', 'Prox', 'Mid', 'Dist', and 'Origin' options). The main area has three tabs: 'Tools', 'SR Template' (which is active), and 'SR Mapping'. Under the 'SR Template' tab, there are several fields: 'SR Template' (a radio button group with 'OB/GYN', 'Fetal Echo', 'Vascular' (selected), and 'Cardiac'); 'SR Template Section *' (a dropdown menu showing 'User-defined Results'); 'Anatomy or Vessel *' (a dropdown menu showing 'WRIST2'); 'Coding Scheme Designator *' (a dropdown menu showing '99 MAYO'); and 'Code value *' (a text field containing '1234567890'). At the bottom right, there are two buttons: 'Save All & Close' and 'Cancel All'. A small note at the bottom left states '* Required field'.

* Will be automatically selected unless the label is created in OB/GYN or Fetal Echo

** The Code Value is linked to the Coding Scheme Designator

*** SR Mapping will be incomplete

Creating a new label – GI example

SR Mapping tab

- Tools & Outputs → ☒ beside all listed tools*
- Text String for SR → Optional field
- Select **Concept Code Meaning** → Distance
- Coding Scheme Designator → DCM
- Code Value → linked to Concept Code
- Optional fields → None selected
- Select **Save All & Close** to complete

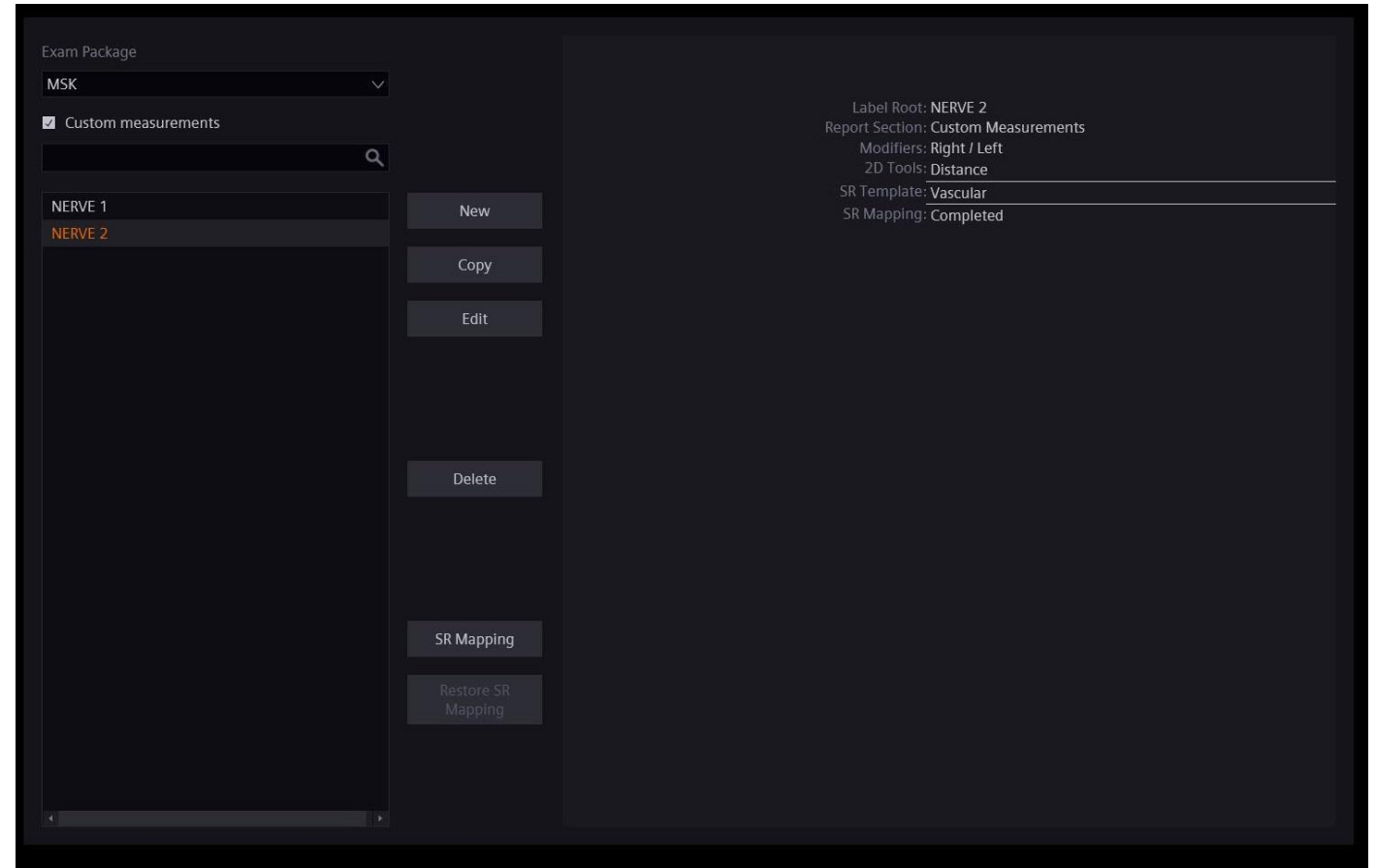
The screenshot shows the 'SR Mapping' tab in a software interface. At the top, there are fields for 'Label Root *' (containing 'NERVE 2'), 'Exam Package' (containing 'MSK'), 'Modifiers' (with 'Right / Left' selected), and 'Measurement Type' (with 'Fetal' selected). Below these are 'Segments' (None, Prox, Mid, Dist, Origin) and a tab bar with 'Tools', 'SR Template', and 'SR Mapping' (the active tab). The 'Tools & Outputs' panel on the left shows a list with 'D' and a checked checkbox next to it. The main panel on the right contains fields for 'Text String for SR', 'Concept Code Meaning *' (set to 'Distance'), 'Coding Scheme Designator *' (set to 'DCM'), 'Code value *' (set to '121206'), and 'Measurement Orientation'. There is also an unchecked checkbox for 'Post-prandial'. At the bottom, there are buttons for 'Previous Output', 'Next Output', 'Save All & Close', and 'Cancel All'. A small asterisk note indicates '* Required field'.

* Each tool will need to be selected and confirmed with the steps listed above. Only then will the SR Mapping be completed for the custom label.

Creating a new label – GI example

Custom label summary

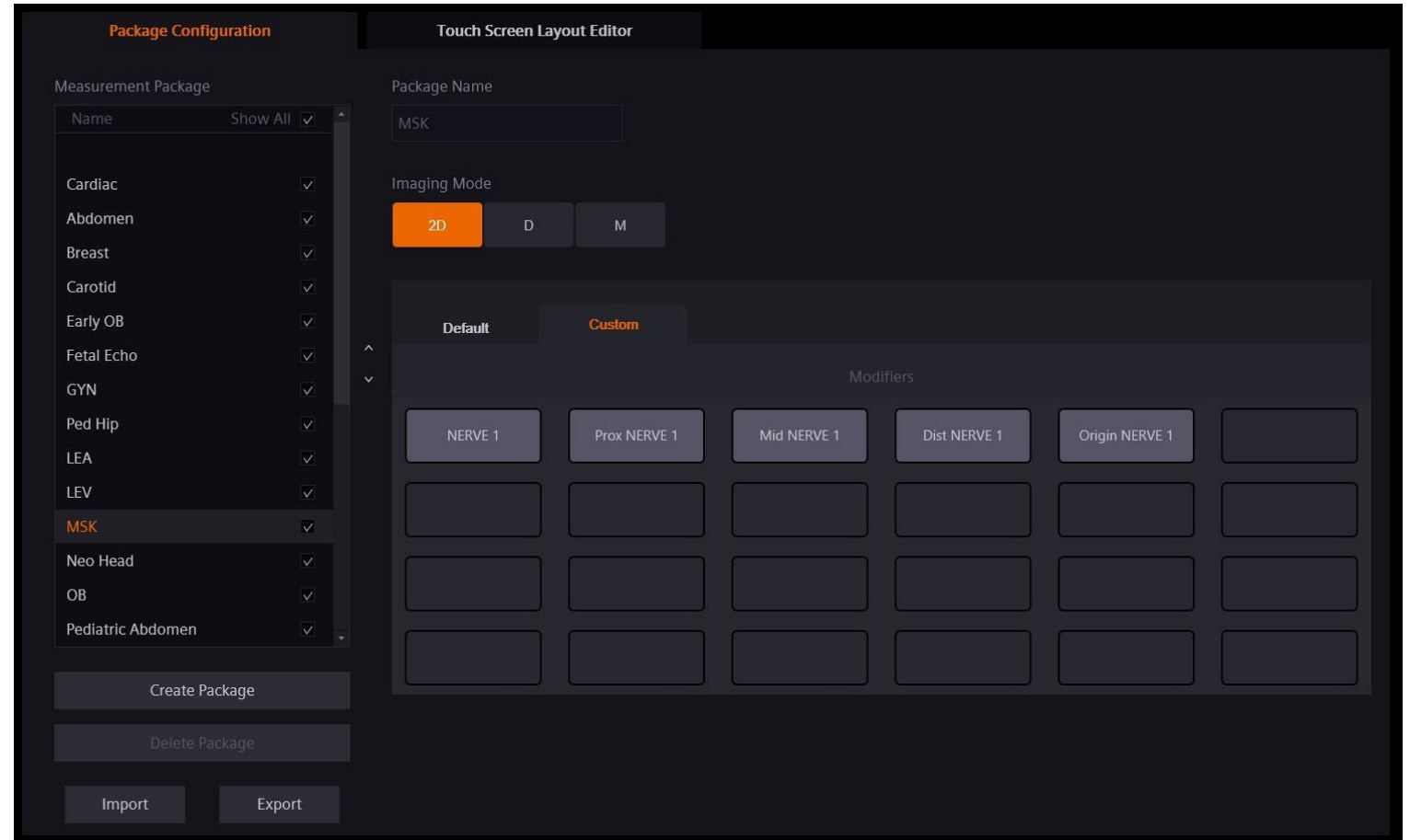
- Check listed label summary for accuracy
- Label will be listed in the master menu under exam
- Label will be automatically added to the Touch Screen upon completion
- Use the Per Label Configuration to alter units or precision
- Copy, Edit, Delete are all available



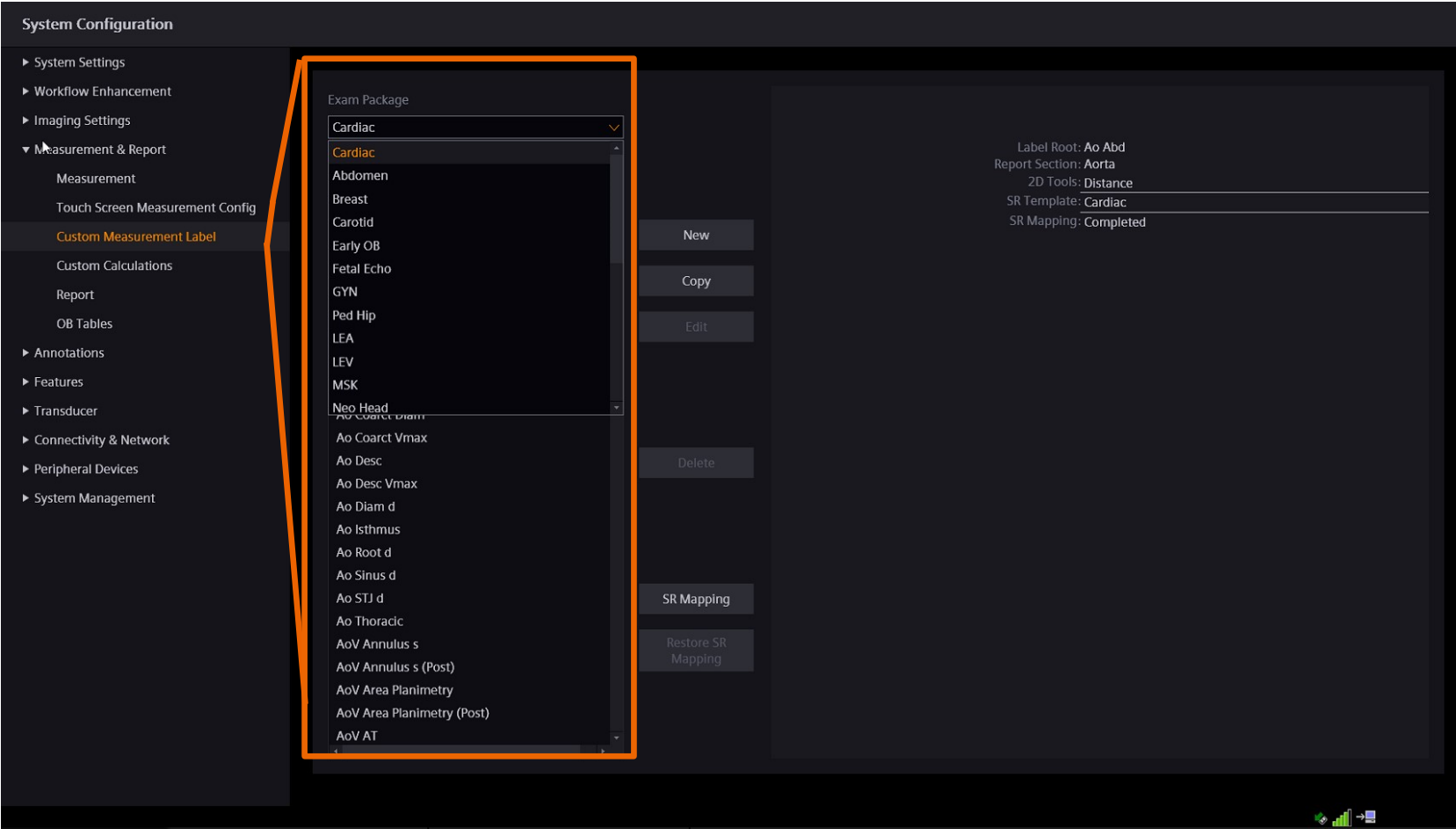
Creating a new label – GI example

Touch Screen

- Custom label will automatically be added to the Touch Screen
- Modifiers (if selected) are embedded in the custom label
- Access the Touch Screen Layout Editor touch tab to change label position if necessary



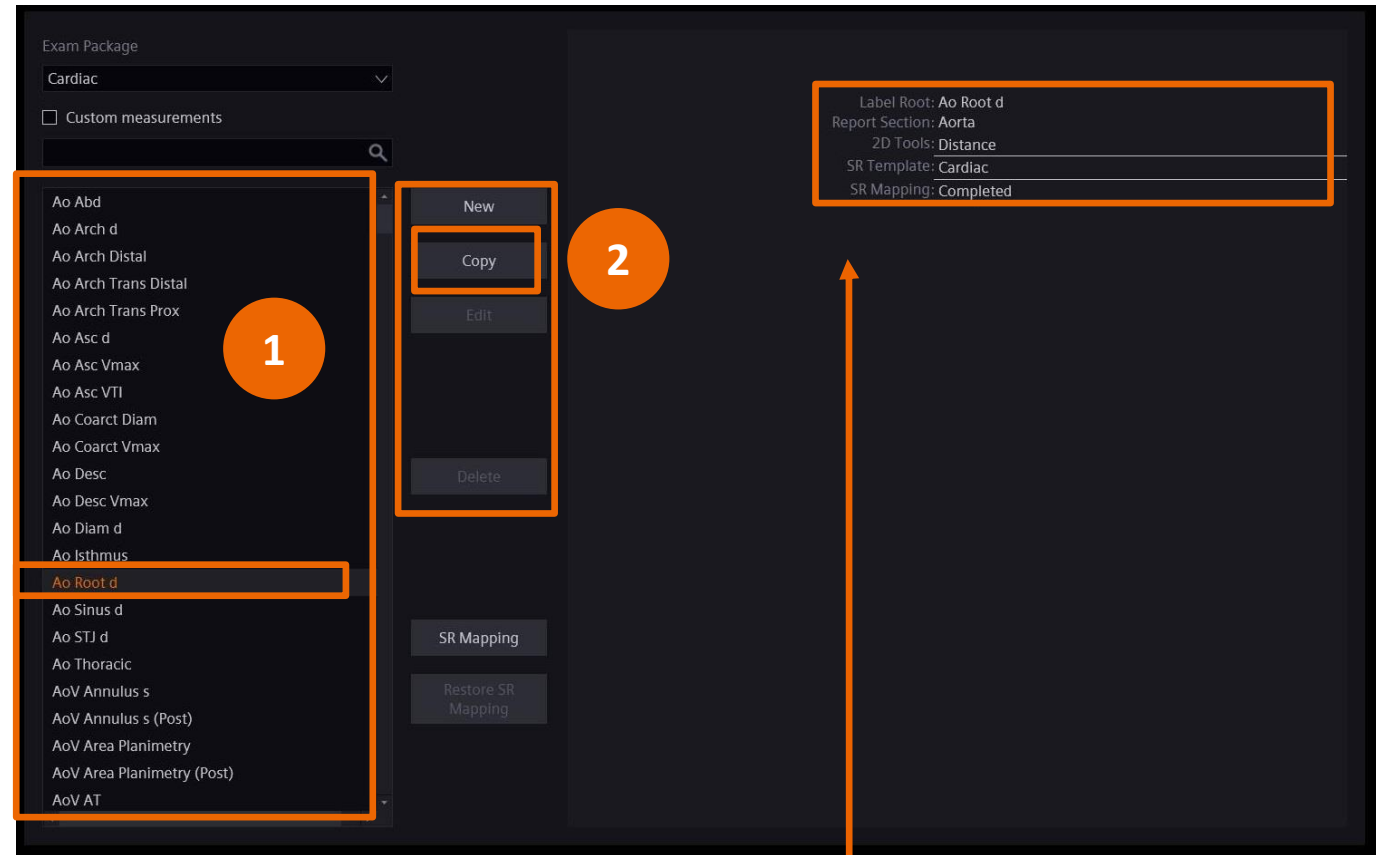
Creating a new custom label using the copy label feature - Cardiac example



Copying a label – Cardiac example

1. Select the label you want to copy from the master list (selected label is back lit in orange)
2. Select **Copy** from the label management options

Summary of selected label parameters



Copying a label – Cardiac example

Defining label parameters

1. Define label root (name)
2. Select Exam Package from drop-down menu
3. Select Modifier (if applicable)
4. Measurement Type
5. Select Segment (if applicable)

The screenshot shows the 'Exam Package' window in the Siemens Healthineers software. The interface is dark-themed. On the left, there is a list of 'Custom measurements' including 'Ao Abd', 'Ao Arch d', 'Ao Arch Distal', 'Ao Arch Trans Distal', 'Ao Arch Trans Prox', 'Ao Asc d', 'Ao Asc Vmax', 'Ao Asc VTI', 'Ao Coarct Diam', 'Ao Coarct Vmax', 'Ao Desc', 'Ao Desc Vmax', 'Ao Diam d', 'Ao Isthmus', 'Ao Root d', 'Ao Sinus d', 'Ao STJ d', 'Ao Thoracic', 'AoV Annulus s', 'AoV Annulus s (Post)', 'AoV Area Planimetry', 'AoV Area Planimetry (Post)', and 'AoV AT'. In the center, there are buttons for 'New', 'Copy', 'Edit', 'Delete', 'SR Mapping', and 'Restore SR Mapping'. On the right, there are several sections: 'Label Root *' with a dropdown menu showing 'TAPSE2' (highlighted with a red circle 1), 'Exam Package' with a dropdown menu showing 'Cardiac' (highlighted with a red circle 2), 'Modifiers' with a checkbox for 'Right / Left' (highlighted with a red circle 3), 'Measurement Type' with a dropdown menu showing 'Fetal' (highlighted with a red circle 4), and 'Segments' with checkboxes for 'None', 'Prox', 'Mid', 'Dist', and 'Origin' (highlighted with a red circle 5). Below these, there are tabs for 'Tools', 'SR Template', and 'SR Mapping'. The 'Tools' tab is active, showing 'Imaging Mode' with radio buttons for '2D Mode', 'Doppler Mode', and 'M Mode' (selected), and 'Report Section' with a dropdown menu showing 'RV'. At the bottom, there are buttons for 'Save All & Close' and 'Cancel All'.

Copying a label – Cardiac example

Tools tab

The Tools tab defines the following label parameters:

1. Select the **Active Mode** for the label (2D, Doppler, etc.)
→ M Mode
2. Select the **Tool** type (distance, time, etc.)
→ Distance
3. Select **Report Section**
→ Right ventricle (RV)

The screenshot displays the Siemens Healthineers software interface for configuring a cardiac label. The 'Tools' tab is active, showing the following configuration:

- Exam Package:** Cardiac
- Label Root *:** TAPSE2
- Modifiers:** ☐ Right / Left
- Measurement Type:** ☒ Fetal
- Segments:** ☒ None ☐ Prox ☐ Mid ☐ Dist ☐ Origin
- Tools:** ☒ Imaging Mode ☐ 2D Mode ☐ Doppler Mode ☐ M Mode
- Report Section:** RV
- M Mode *:**
 - Tools:** ☒ Distance ☐ Heart Rate ☐ M-Slope ☐ Time
 - Label:** TAPSE2

Numbered callouts indicate the steps for copying a label:

1. Select the **Imaging Mode** for the label (2D, Doppler, etc.)
2. Select the **Tool** type (distance, time, etc.)
3. Select **Report Section**

Copying a label – Cardiac example

SR Template tab

The SR Template tab allows the user to edit the copied labels data for the following:

1. SR Template type
→ Cardiac
2. SR Template section
→ Right ventricle

The screenshot displays the Siemens Healthineers SR Template tab interface. On the left, under the 'Exam Package' dropdown set to 'Cardiac', a list of cardiac measurements is shown, with 'Ao Arch Distal' selected. On the right, the 'SR Template' tab is active. The 'Label Root' is 'TAPSE', and the 'Exam Package' is 'Cardiac'. The 'SR Template' section has 'Cardiac' selected. The 'SR Template Section' dropdown is highlighted with an orange box and labeled '2', showing 'Right Ventricle' selected. An orange circle labeled '1' highlights the 'Cardiac' selection in the 'SR Template' list. At the bottom right, there are 'Save All & Close' and 'Cancel All' buttons.

Copying a label – Cardiac example

SR Mapping tab

The SR Mapping tab contains the following:

1. Displays the measurement tool and output type
2. Allows edits to copied labels SR mapping parameters for:
 - Concept Code Meaning
 - Coding Scheme Designator
 - Code Value
 - Optional fields such as Text String or Measurement Method
3. Use Save All & Close to complete the SR Mapping selections

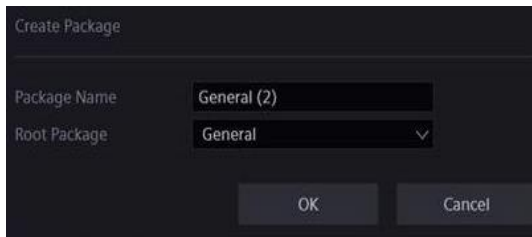
The screenshot shows the Siemens Healthineers SR Mapping interface. It is divided into several sections:

- Left Panel:** Contains 'Exam Package' (General), 'Custom measurements' (searchable), and a list of tools/outputs. A 'D' tool is selected, indicated by a checkmark and a red circle with the number '1'.
- Top Right:** Contains 'Label Root *' (NERVE2), 'Exam Package' (General), 'Modifiers' (Right / Left, Fetal), and 'Segments' (None, Prox, Mid, Dist, Origin).
- SR Mapping Tab:** This tab is highlighted with a red box. It contains the following fields:
 - Text String for SR:** A text input field.
 - Concept Code Meaning *:** A dropdown menu with 'Distance' selected.
 - Coding Scheme Designator *:** A dropdown menu with 'DCM' selected.
 - Code value *:** A text input field with '121206' entered.
 - Measurement Orientation:** A dropdown menu.
 - Post-prandial:** A checkbox.A red bracket with the number '2' groups the Concept Code Meaning, Coding Scheme Designator, Code value, and Measurement Orientation fields.
- Bottom:** Contains 'Previous Output', 'Next Output', and 'Save All & Close' (highlighted with a red box and a red circle with the number '3').

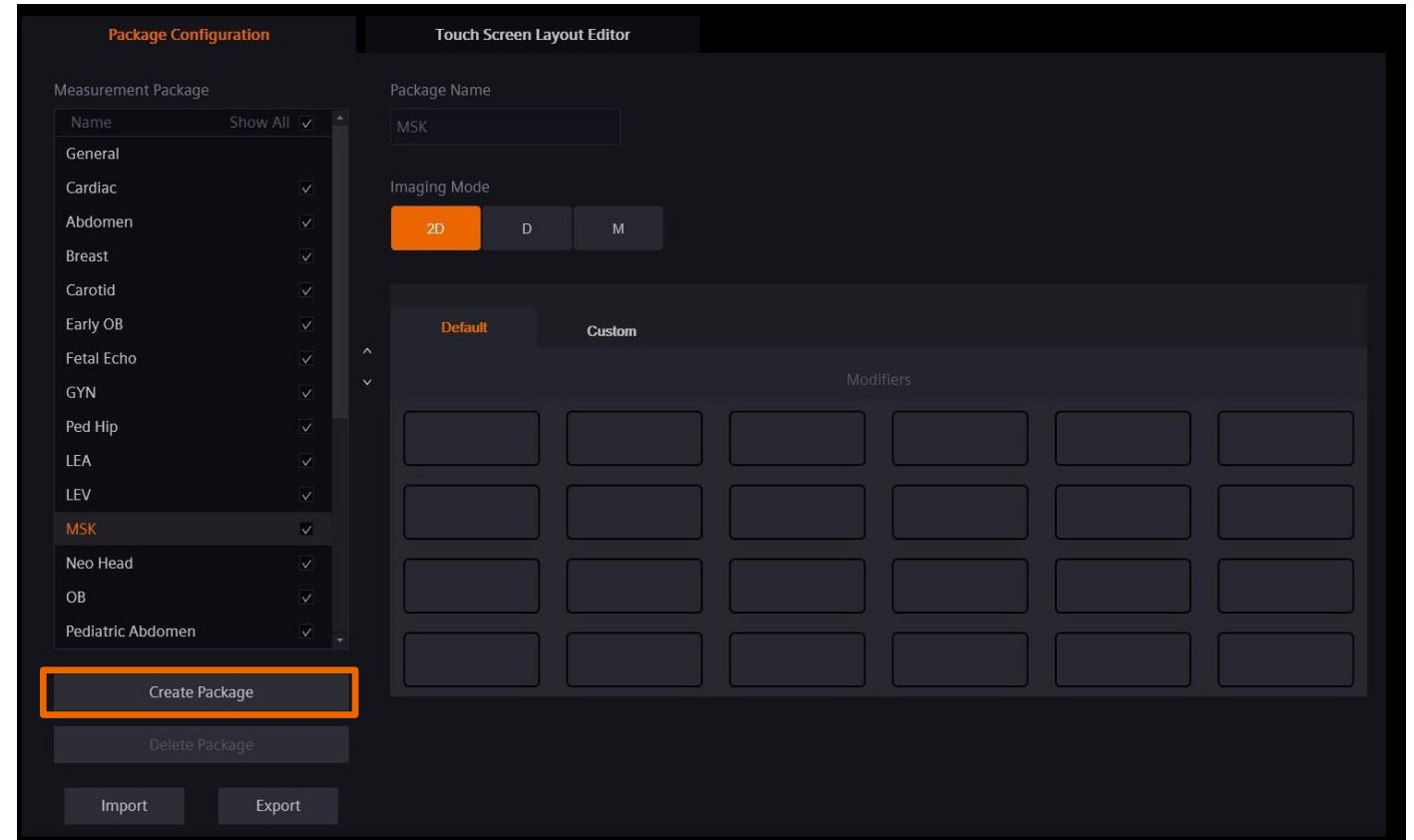
Create new custom calculation package

Custom calculation packages can be created for any exam:

- Select **Create Package**
- A dialogue box will appear
 - Enter Package Name
 - Select specific Root Package or None (empty)



- Select **OK** to save



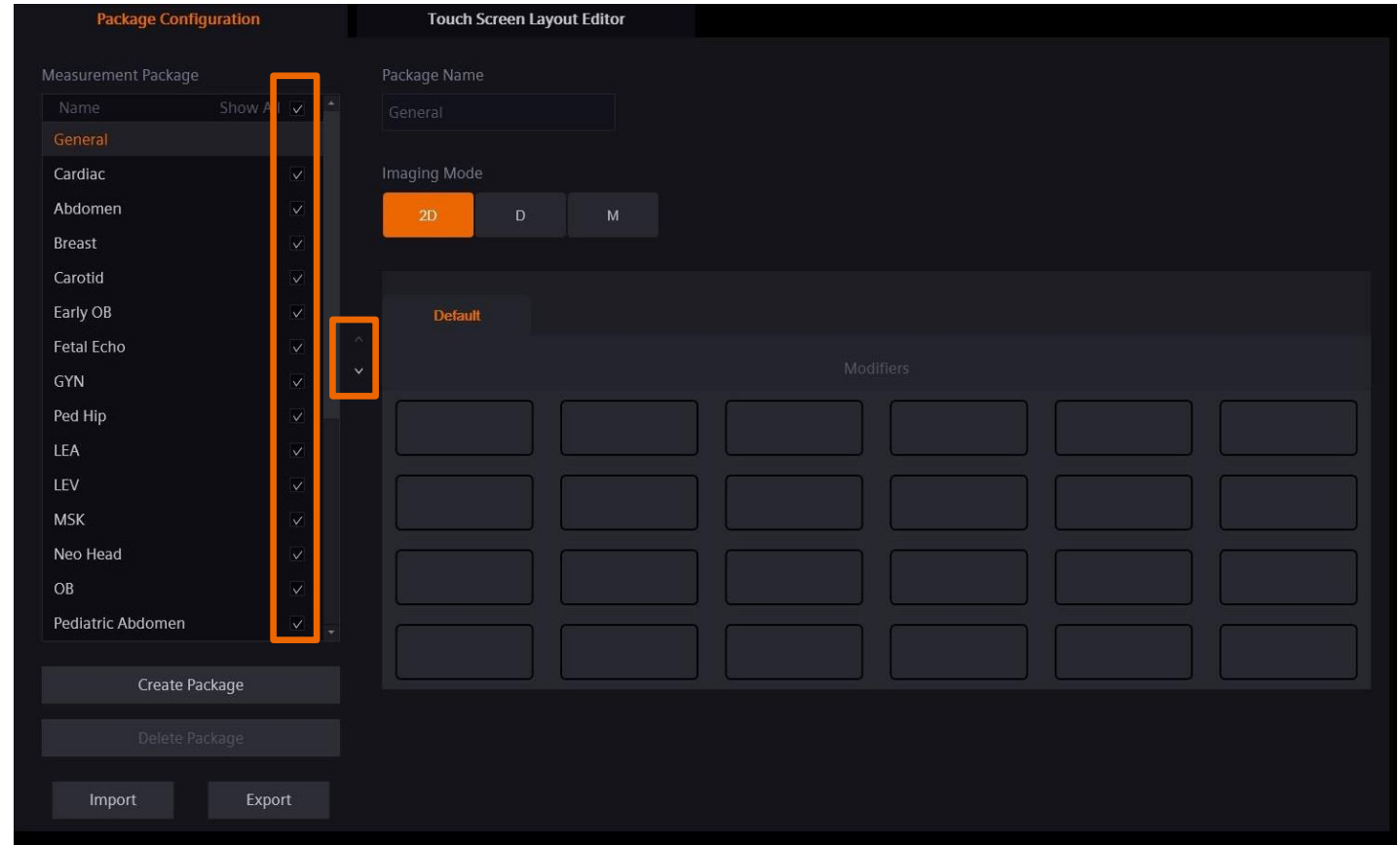
Calculation package visibility and order

All calculation packages are listed in the master list

- Change the visibility (“hide”) of any package by unchecking the associated box ☒ → ☐
- Re-order packages within the list by using the up/down arrows



To display a calculation package, check this tab for visibility.



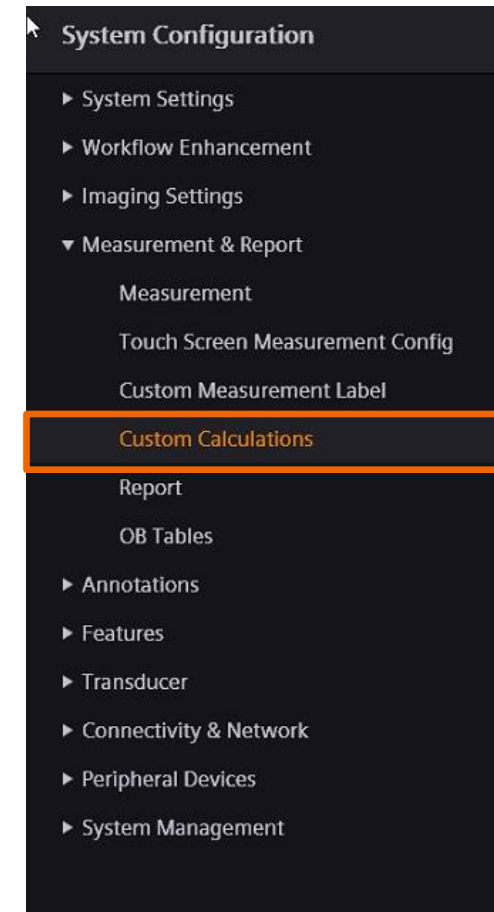
Objectives

- Identify access to system configuration
- Outline the measurement subgroup
- Describe the Touch Screen configuration
- Explain custom measurement labels
 - Homepage layout
 - What is DICOM SR?
 - Steps to define a custom label
 - Create a new custom label
- **Describe Custom Calculations**
- Discuss the OB tables
- Review the report



Custom Calculations are clinical calculations that are specific to a user, department, institution, or region that are not available as factory calculations.

- **System Configuration > Measurement & Report > Custom Calculations**
- The tool will not let users save a mathematically incorrect formula
- Provides utility for a variety of equations from simple volumes to regression formula
- Full accessibility for General Imaging, Cardiac, and Shared Service



System Configuration

System Settings

Workflow Enhancement

Imaging Settings

Measurement & Report

Measurement

Touch Screen Measurement Config

Custom Measurement Label

Custom Calculations

Report

OB Tables

Annotations

Features

Transducer

Connectivity & Network

Peripheral Devices

System Management

Custom Calculations

Formula 1

New

Copy

Edit

Delete

SR Mapping

Formula

SR Mapping

Name

Units

Precision

Report Section

Formula 1

cm

3

Congenital Heart Disease

Max([Ao Arch Distal,cm],[Ao Arch Trans Distal,cm])

Ensure the formula and units are correct and then click Save.

Show In Measured Results

Show In Report

Save

Cancel

Exam Package

Abdomen

AAA

AAA (Post Repair)

AAA (Post Repair) AP

AAA (Post Repair) Diam

AAA (Post Repair) Trans Diam

AAA AP

AAA Diam

AAA dist from SMA

AAA Sac Length

AAA Sac Length (Post Repair)

Result Labels

Accel

Time

V1

V2

PS

ED

Units

mm/s²

cm/s²

ml/s²

Add

ATAN

Min

Min Of Any

TAN

Max

Max Of Any

COS

Abs

Mean Of Any

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Custom Calculations

1. Name of equation (14-character limit)
2. Output units of equation
3. Decimal point precision
4. Report display area
5. Area of equation input
6. Display results in onscreen measurement display area or within Report
7. Exam package drop-down
8. Library of labels to create an equation
9. Result labels when type of measurement needs to be specific
10. Input units
11. Mathematical input area

The screenshot shows the 'Formula' configuration window in the Siemens Healthineers software. The interface is dark-themed with orange callout numbers 1 through 11 pointing to specific features:

- 1**: Points to the 'Name' input field at the top.
- 2**: Points to the 'Units' dropdown menu.
- 3**: Points to the 'Precision' dropdown menu.
- 4**: Points to the 'Report Section' dropdown menu.
- 5**: Points to the large text area for the equation input.
- 6**: Points to the 'Show in Measured Results' checkbox.
- 7**: Points to the 'Exam Package' dropdown menu.
- 8**: Points to the list of labels under the 'Exam Package' dropdown.
- 9**: Points to the 'Result Labels' dropdown menu.
- 10**: Points to the 'Units' dropdown menu at the bottom.
- 11**: Points to the mathematical keypad on the right side of the window.

Below the equation input area, there is a message: "Ensure the formula and units are correct and then click Save." followed by 'Save' and 'Cancel' buttons. Below the checkboxes, there is a table of mathematical functions and operators:

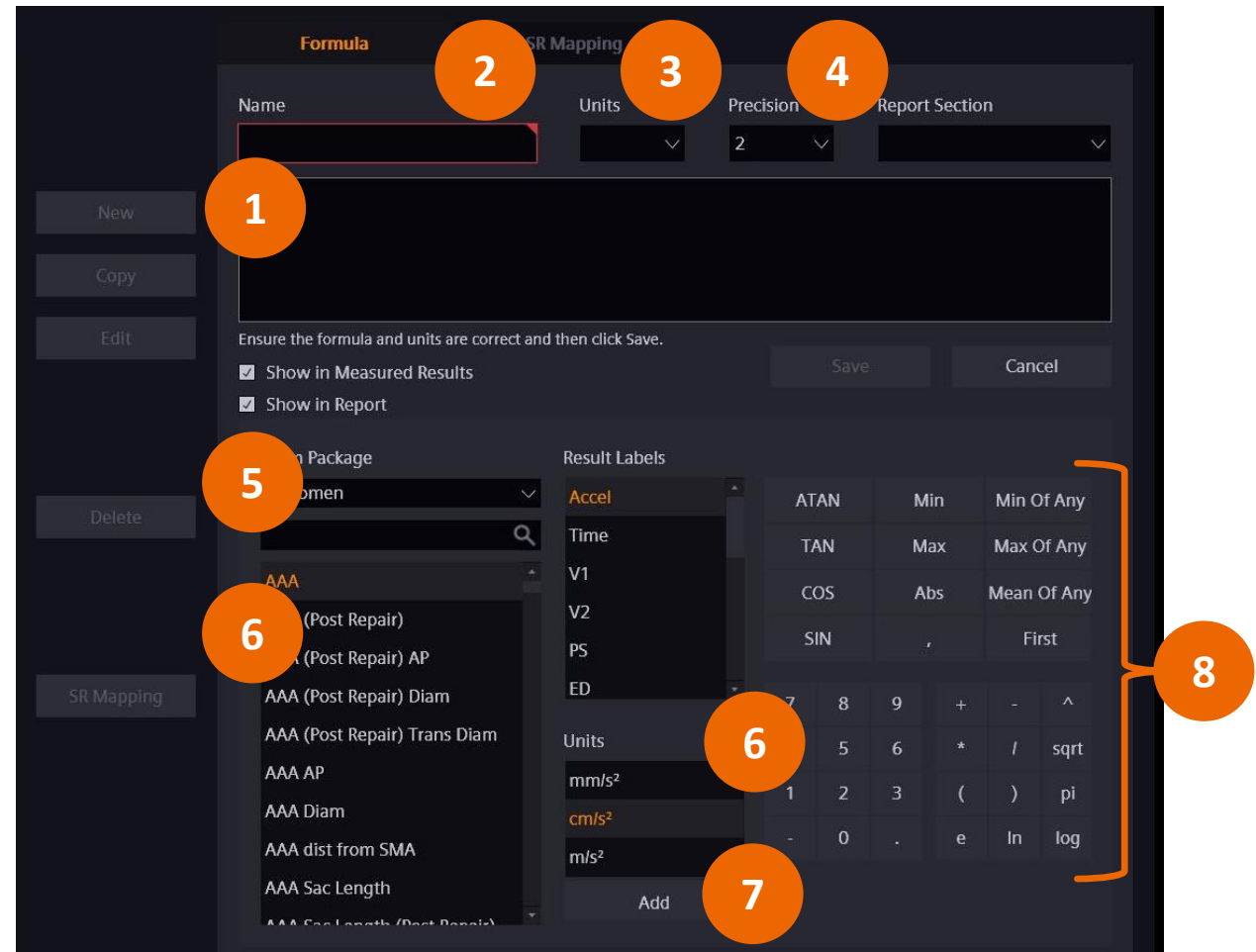
Result Labels	ATAN	Min	Min Of Any
Time	TAN	Max	Max Of Any
V1	COS	Abs	Mean Of Any
V2	SIN	,	First
PS			
ED			
Units	7	8	9
mm/s²	4	5	6
cm/s²	1	2	3
m/s²	-	0	.
			e
			ln
			log

At the bottom right, there is an 'Add' button.

Custom Calculations – entry

Basic entry of a Custom Calculation:

1. Select **New**
2. Enter a unique formula name
(14-character limit)
3. Select output **Units**
4. Select result **Precision**
5. Select appropriate **Exam Package**
6. Select a label from the exam package library and choose the input **Units** and results label for that measurement
7. Select **Add** to add measurement to equation area
8. Use calculator functions to enter mathematical equation



Custom Calculations – entry cont.

Basic entry of a Custom Calculation (cont.):

9. Select **Report Section** area for formula results to display
10. Check for accuracy and no red lines
11. Select **Show in Measured Results** to display results in MDA
12. Select **Show in Report** to display formula results in the report
13. Select **Save**

The screenshot shows the 'Formula' tab of a custom calculation entry window. The interface includes a 'Name' field, 'Units' and 'Precision' dropdowns, and a 'Report Section' dropdown (callout 9). Below these is a large formula input area (callout 10) with a green arrow indicating the start of the formula. To the left of the formula area are buttons for 'New', 'Copy', 'Edit', and 'Delete'. Below the formula area are checkboxes for 'Show in Measured Results' (callout 11) and 'Show in Report' (callout 12), both of which are checked. To the right of these checkboxes are 'Save' (callout 13) and 'Cancel' buttons. At the bottom, there is a section for 'Exam Package' (currently 'Abdomen') and 'Result Labels' (currently 'Accel'). Below these are lists of available labels (AAA, AAA (Post Repair), AAA (Post Repair) AP, AAA (Post Repair) Diam, AAA (Post Repair) Trans Diam, AAA AP, AAA Diam, AAA dist from SMA, AAA Sac Length, AAA Sac Length (Post Repair)) and units (mm/s², cm/s², m/s²). A numeric keypad with mathematical functions (ATAN, TAN, COS, SIN, Min, Max, Abs, First, sqrt, pi, log) is also present.

SR Mapping

1. Select **SR Mapping**
2. Select appropriate SR Template
3. Select SR Template section
4. Complete SR Mapping for given equation

The screenshot displays the 'Custom Calculations' interface for 'SR Mapping'. The interface is divided into several sections:

- Left Panel (Custom Calculations):** Lists calculation templates: 'Lt Lambert', 'LVOT/BSA' (highlighted), and 'Rt Lambert'. Below the list are buttons for 'New', 'Copy', 'Edit', 'Delete', and 'SR Mapping'.
- Formula Tab:** Contains the 'SR Template' section with radio buttons for 'OB/GYN', 'Fetal Echo', 'Vascular', and 'Cardiac' (selected). Below this is the 'SR Template Section *' dropdown menu, currently set to 'Left Ventricle'.
- SR Mapping Tab:** Contains the 'Text String for SR' section with a text input field set to 'LVOT/BSA'. Below this are several dropdown menus: 'Concept Code Meaning *' (set to 'Cardiac Index'), 'Coding Scheme Designator *' (set to 'SRT'), 'Code value *' (set to 'F-32110'), 'Measurement Method' (set to 'Continuity Equation by Velocity Time I'), 'Finding Site' (set to 'Left Ventricle Outflow Tract'), 'Flow Direction' (set to 'Antegrade Flow'), 'Cardiac Cycle Point' (set to 'Peak Systolic'), and 'Image View' (set to 'Apical four chamber').

Four orange circles with white numbers are overlaid on the interface to indicate the steps:

- 1:** Points to the 'SR Mapping' tab.
- 2:** Points to the 'Cardiac' radio button in the 'SR Template' section.
- 3:** Points to the 'Left Ventricle' dropdown in the 'SR Template Section *' field.
- 4:** Points to the 'LVOT/BSA' text input field in the 'Text String for SR' section.

At the bottom right, there are 'Save' and 'Cancel' buttons. A small asterisk indicates that fields marked with an asterisk are required.

Objectives

- Identify access to system configuration
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 - Homepage layout
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- Describe Custom Calculations
- **Discuss the OB tables**
- Review the report



OB Tables tab

Homepage layout

OB tables homepage configurable options:

- Default OB Author
- Custom GA Table
- Custom Growth Curves

System Configuration

- ▶ System Settings
- ▶ Workflow Enhancement
- ▶ Imaging Settings
- ▶ Measurement & Report
 - Measurement
 - Touch Screen Measurement Config
 - Custom Measurement Label
 - Custom Calculations
 - Report
 - OB Tables**
- ▶ Annotations
- ▶ Features
- ▶ Transducer
- ▶ Connectivity & Network
- ▶ Peripheral Devices
- ▶ System Management

Default OB Author

Custom GA Table

Custom Growth Curves

Gestational Age		Growth Analysis	
Measurement:	Author	Measurement:	Author
AC	Lasser	AC	Hadlock
APTDxTTD	Tokyo*	AFI	Moore
BinocD	Tongsong	AFI 2	Moore
BPD	Hadlock	AFI 3	Moore
Cerebellum	Hill	APTDxTTD	Tokyo
CRL	Hadlock	BPD	Merz
EFW Age	Osaka*	Cerebellum	Verburg
FL	Hadlock	Cist Magna	Nicolaides
Foot	Mercer	Clavicle	Sherer
FTA	Osaka*	CRL	Hadlock
GSD	Rempen	EFW	Hadlock
HC	Hadlock	FL	Hadlock
HL	Jeanty	Foot	Chitty
MSD	Rempen	FTA	Osaka
OFD	ASUM 2003	GSD	Hellman
Tibia	Jeanty	HC	Hadlock
Ulna	Jeanty	HC/AC	Campbell
		HL	Jeanty
		Lt CP Ratio	Ebbing

US Age (Ultrasound Age)

Average

EFW (Estimated Fetal Weight)

Hadlock (BPD, HC, AC, FL)

OB Tables tab

Default OB Author

- Select default author from drop-down menu for each parameter
- Custom tables will have an asterisk (*) in the table name
- Factory tables will not have an asterisk (*) in table name

System Configuration

- ▶ System Settings
- ▶ Workflow Enhancement
- ▶ Imaging Settings
- ▼ Measurement & Report
 - Measurement
 - Touch Screen Measurement Config
 - Custom Measurement Label
 - Custom Calculations
 - Report
 - OB Tables**
- ▶ Annotations
- ▶ Features
- ▶ Transducer
- ▶ Connectivity & Network
- ▶ Peripheral Devices
- ▶ System Management

Default OB Author Custom GA Table Custom Growth Curves

Measurement:	Author
AC	Lasser
APTDxTTD	Tokyo*
BinocD	Tongsong
BPD	Hadlock
Cerebellum	Hill
CRL	Hadlock
EFW Age	Osaka*
FL	Hadlock
Foot	Mercer
FTA	Osaka*
GSD	Rempen
HC	Hadlock
HL	ASUM 2003
MSD	Chitty
OFD	Hadlock
Tibia	Hansmann
Ulna	Lasser
	Merz

US Age (Ultrasound Age)
Average

Growth Analysis

Measurement:	Author
AC	Hadlock
AFI	Moore
AFI 2	Moore
AFI 3	Moore
APTDxTTD	Tokyo
BPD	Merz
Cerebellum	Verburg
Cist Magna	Nicolaidis
Clavicle	Sherer
CRL	Hadlock
EFW	Hadlock
FL	Hadlock
Foot	Chitty
FTA	Osaka
GSD	Hellman
HC	Hadlock
HC/AC	Campbell
HL	Jeanty
Lt CP Ratio	Ebbing

EFW (Estimated Fetal Weight)
Hadlock (BPD, HC, AC, FL)

OB Tables tab

Custom GA Table

Two options to create a custom gestational age (GA) table:

1. Manually input a new table
2. Copy an existing table

The screenshot displays the 'Custom GA Table' interface within the 'OB Tables' tab. The interface is divided into three main sections: a left sidebar for 'Measurement' tables, a central control panel, and a right section for the 'Gestational Age' table.

Measurement Table (Left):

Measurement
AC
ASUM 2003
Hadlock
JSUM 2003
Lasser
Merz

Central Control Panel:

- Author Name:** JSUM 2003
- Units:** cm
- Buttons:** New, Copy, Edit, Delete

Gestational Age Table (Right):

	AC	Gestational Age		
		Weeks	Days	2SD days
	10.00	15	3.0	16
2	10.50	16	0.0	16
3	11.00	16	4.0	16
4	11.50	17	0.0	16
5	12.00	17	4.0	18
6	12.50	18	0.0	18
7	13.00	18	4.0	18
8	13.50	19	0.0	18
9	14.00	19	4.0	18
10	14.50	20	0.0	18
11	15.00	20	3.0	20
12	15.50	21	0.0	20

Bottom Bar: Restore Defaults: AC

OB Tables tab

Custom GA Table – copy existing table

- Highlight desired table
- Select **Copy**
- Change Author name or leave copied name with number
- Alter data (if required)
- Validate table
- If table is valid, select **Save**

Table is valid.

Default OB Author Custom GA Table Custom Growth Curves

Measurement

AC

ASUM 2003

Hadlock

JSUM 2003

Lasser

Merz

New

Copy

Edit

Delete

Author Name

Units

JSUM 2003 (2)

cm

Gestational Age

Row	AC	Weeks	Days	2SD days
1	10.00	15	3.0	16
2	10.50	16	0.0	16
3	11.00	16	4.0	16
4	11.50	17	0.0	16
5	12.00	17	4.0	18
6	12.50	18	0.0	18
7	13.00	18	4.0	18
8	13.50	19	0.0	18
9	14.00	19	4.0	18
10	14.50	20	0.0	18
11	15.00	20	3.0	20
12	15.50	21	0.0	20

Insert Row Before

Insert Row After

Delete Row

Clear All

Validate Table

SR Mapping

Save

Cancel

Ensure the table entries are correct and then click Save

Restore Defaults: AC

OB Tables tab

Custom GA Table – create new

- Select **New**
- Name table and select units
- Input table data – use the “tab” key to advance
- Insert/delete rows as required
- Validate table
- Complete the SR Mapping process (if required)
- Select **Save** to complete table

The screenshot shows the 'Custom GA Table' tab in the Siemens Healthineers OB Tables application. The interface is divided into several sections:

- Measurement:** A dropdown menu currently showing 'AC'. Below it is a list of measurement types: ASUM 2003, Hadlock, JSUM 2003, Lasser, and Merz.
- Buttons:** A vertical column of buttons labeled 'New', 'Copy', 'Edit', and 'Delete'.
- Author Name:** A text input field containing 'Author'.
- Units:** A dropdown menu set to 'mm'.
- Gestational Age Table:** A table with columns for 'Row', 'AC', 'Weeks', 'Days', and '2SD days'. It contains 12 rows, with the first row highlighted.
- Actions:** A vertical column of buttons on the right labeled 'Insert Row Before', 'Insert Row After', 'Delete Row', and 'Clear All'.
- Footer:** A row of buttons labeled 'Validate Table', 'SR Mapping', 'Save', and 'Cancel'. Below these is a note: 'Ensure the table entries are correct and then click Save'. At the bottom right is a button labeled 'Restore Defaults: AC'.

OB Tables tab

Custom Growth Curves

- Steps to add custom growth curves are like custom GA tables using Copy or New
- Custom growth curves require a Low/High range selection – options are:
 - 5%/95%
 - 10%/90%
 - 3%/97%
 - +/- 1.5SD
 - +/- 2SD
 - +/- 1SE
- Maximum number of weeks that can be entered is 43

The screenshot shows the 'Custom Growth Curves' tab in the Siemens Healthineers OB Tables software. The interface is divided into several sections:

- Measurement:** A dropdown menu showing 'AC' and a list of custom growth curves including 'ASUM 2003', 'CFEF', 'Chitty', 'Deter', 'Grumbach (twins)', 'Hadlock', 'INTERGROWTH-21st', 'Jeanty', 'JSUM 2003', 'Merz', 'Nicolaidis', and 'Verburg'.
- Buttons:** 'New', 'Copy', 'Edit', and 'Delete' buttons are located to the right of the measurement list.
- Form Fields:**
 - Author Name:** A text field containing 'ASUM 2003 (2)'.
 - Units:** A dropdown menu set to 'mm'.
 - Low/High Range:** A dropdown menu set to '5%/95%'.
 - Required field indicator:** A red asterisk and the text '* = Required field'.
- Table:** A table with columns for 'Row', 'weeks', 'Days', 'GA', 'AC', 'Low (5%)', 'Mean (50%)', and 'High (95%)'. The table contains 11 rows of data, with the first row being '1', '11', '0.0', '43.8', '52', '60.2'.
- Buttons:** 'Insert Row Before', 'Insert Row After', 'Delete Row', and 'Clear All' buttons are located to the right of the table.
- Footer:** A 'Validate Table' button, a 'SR Mapping' button, a 'Save' button, and a 'Cancel' button are located at the bottom of the form. Below these buttons is a note: 'Ensure the table entries are correct and then click Save'.

OB Tables tab

Custom Growth Curves

Flexibility with input

- Low/High percentile range options
- Custom defined Low/High percentile - 0.1–99.9%
- Auto calculation of Low/High percentile

The screenshot shows the 'Custom Growth Curves' interface. Annotation 1 points to the 'Units' dropdown menu, which is currently set to 'mm'. Annotation 2 points to the 'Low/High Range' dropdown menu, which is currently set to '5%/95%'. A red box highlights the 'Required field' indicator (an asterisk) and the input fields for the percentile range (e.g., '5% - 95%').

GA		AC			
Row	weeks	Days	Low (5%)	Mean (50%)	High (95%)
1					
2					
3					
4					
5					

Buttons on the right: Insert Row Before, Insert Row After, Delete Row, Clear All.

Objectives

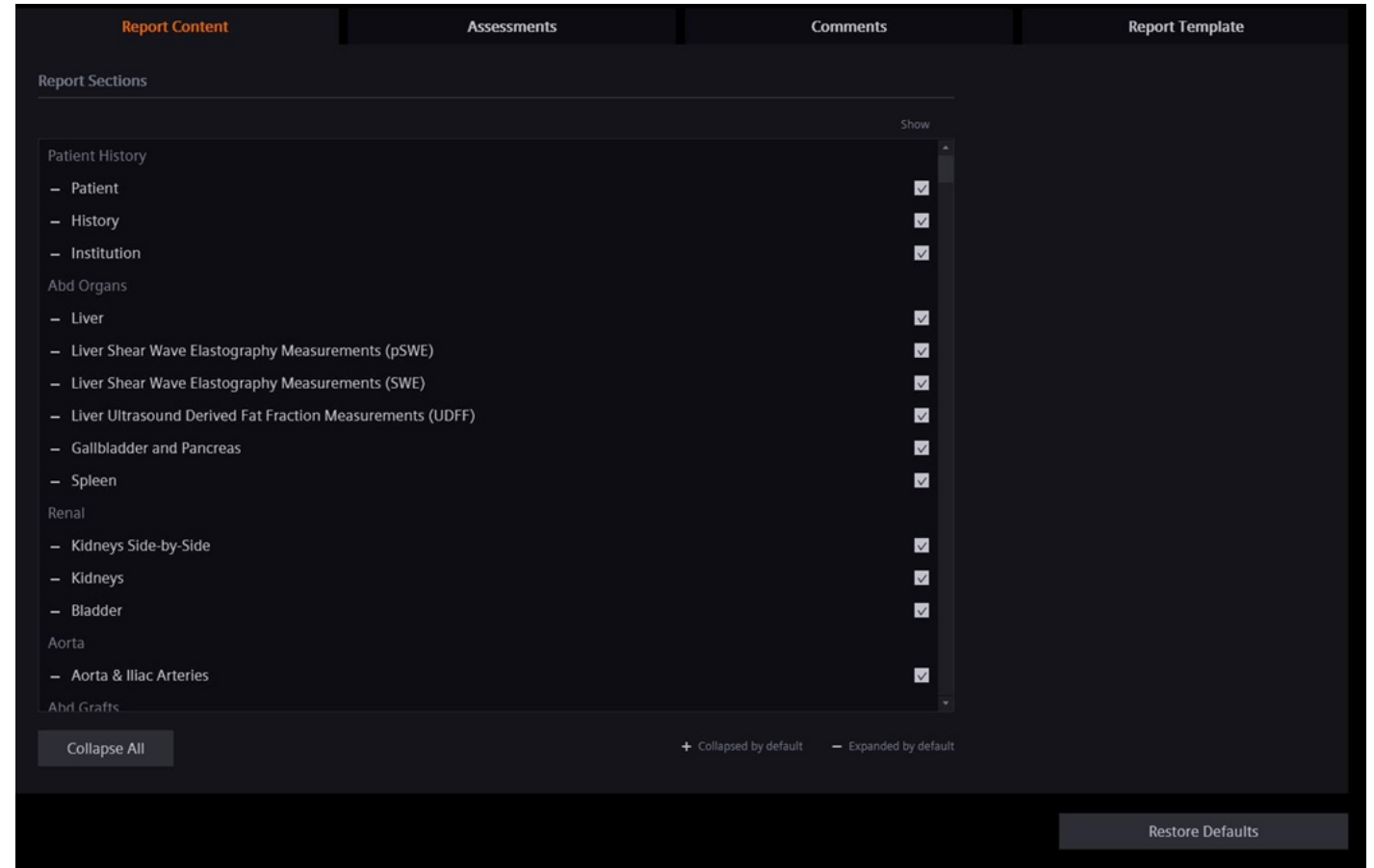
- Identify access to system configuration
- Outline the measurement subgroup
- Describe the Touch Screen configuration
- Explain custom measurement labels
 - Homepage layout
 - What is DICOM SR?
 - Steps to define a custom label
 - Create a new custom label
- Describe Custom Calculations
- Discuss the OB tables
- **Review the report**



Report configuration tab

Homepage layout

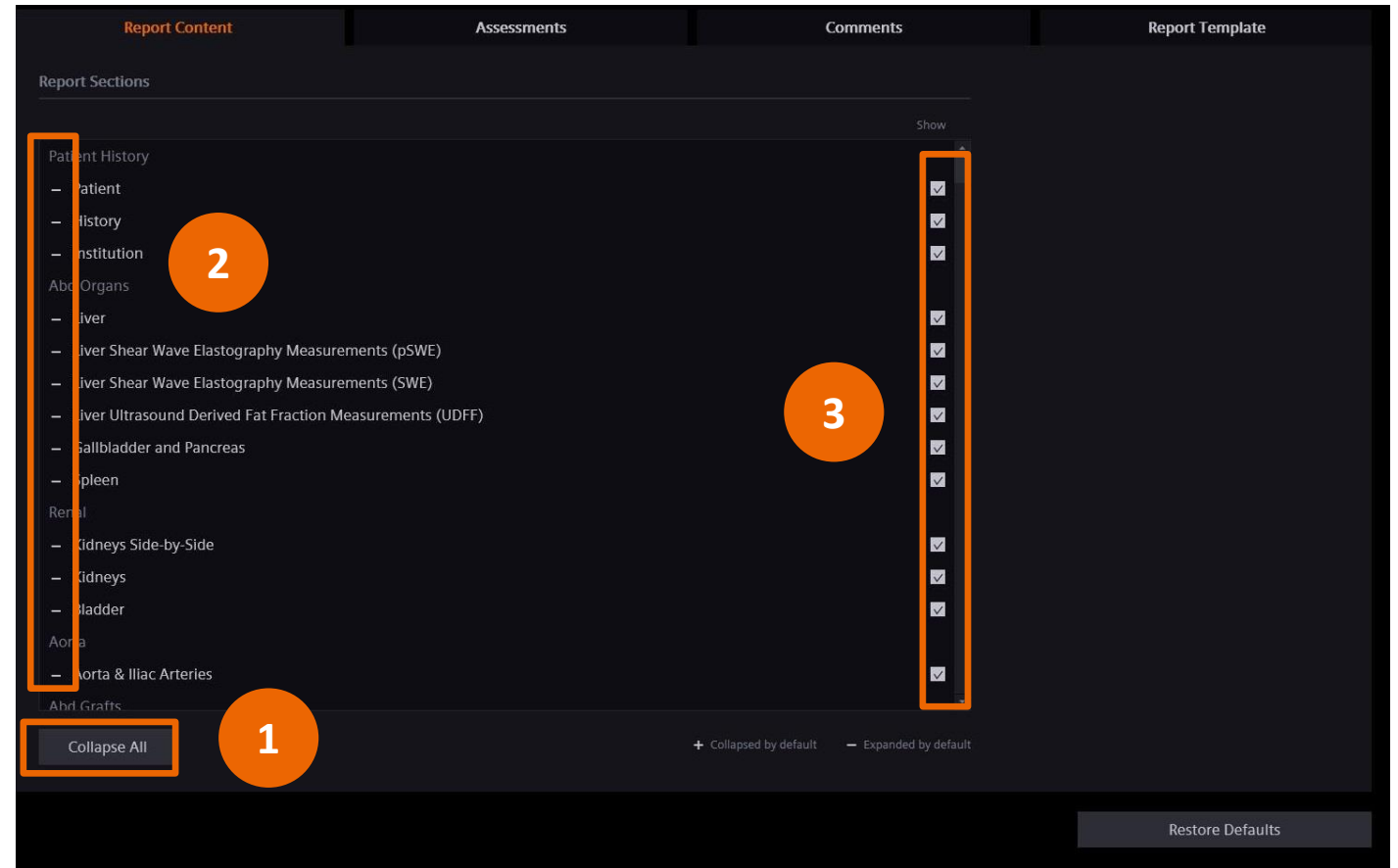
- Organ-based/anatomic reporting structure
- Homepage contains four configurable option areas:
 - Report Content
 - Assessments
 - Comments
 - Report Template



Report configuration tab

Report Content

1. Default option to expand or collapse all report content
2. Expand/collapse option for individual sections
3. Check ☒ option to show/hide report sections*



*Hidden sections will not show on a printed report even if a measurement is performed for that section.

Report configuration tab

Assessments

Pre-loaded list of assessments from factory:

- Abdomen
- OB Fetal
- OB Maternal
- Early OB Fetal
- Early OB Maternal
- GYN
- Carotid
- Lt Hip Description
- Rt Hip Description
- Fetal Echo

Check ☒ option to show/hide assessment in report.

Report Content | **Assessments** | Comments | Report Template

Assessments

Carotid

Rt CCA		Lt CCA	
Rt CCA Plaque Description		Lt CCA Plaque Description	
Rt CCA Diameter Reduction		Lt CCA Diameter Reduction	
Rt CCA Comments		Lt CCA Comments	
Rt BIF		Lt BIF	
Rt BIF Plaque Description		Lt BIF Plaque Description	
Rt BIF Diameter Reduction		Lt BIF Diameter Reduction	
Rt BIF Comments		Lt BIF Comments	
Rt ICA		Lt ICA	
Rt ICA Plaque Description		Lt ICA Plaque Description	
Rt ICA Diameter Reduction		Lt ICA Diameter Reduction	
Rt ICA Comments		Lt ICA Comments	
Rt ECA		Lt ECA	
Rt ECA Plaque Description		Lt ECA Plaque Description	

how

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

Create Custom Assessment Items

Type:

☒ Checklist

☐ Comment Text Box

Label:

Add

Delete

Restore Defaults: Carotid

Report configuration tab

Add custom assessment item

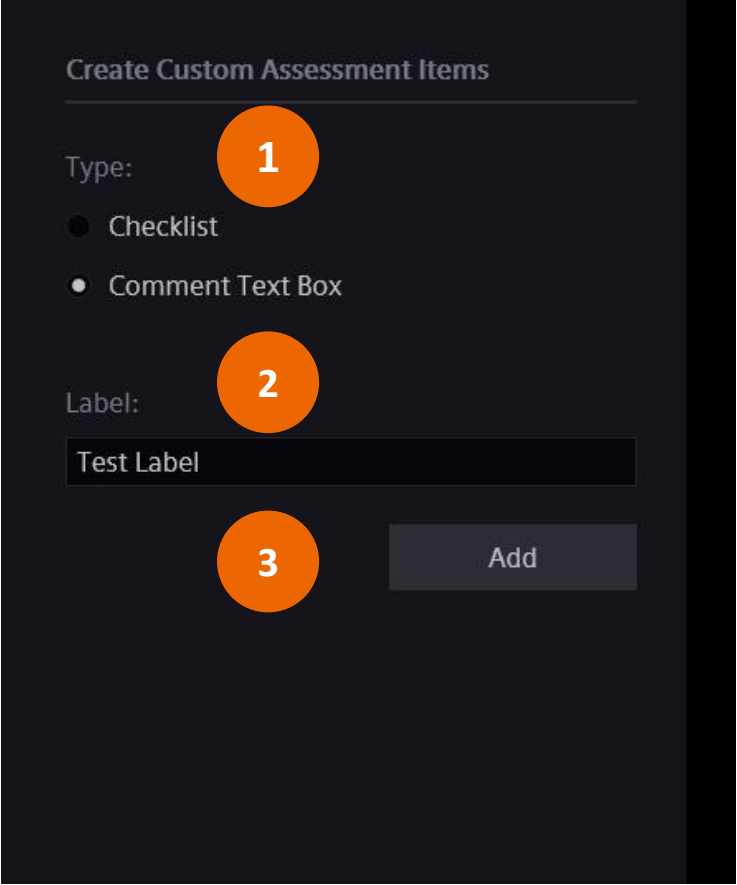
Two types of custom assessment items can be added:

- Checklist
- Comment text box

To add a custom assessment:

1. Select assessment **Type**
2. Enter label in field
3. Select **Add**

Assessment label can only be moved around custom area of the report.



The screenshot shows a dark-themed dialog box titled "Create Custom Assessment Items". It contains the following elements:

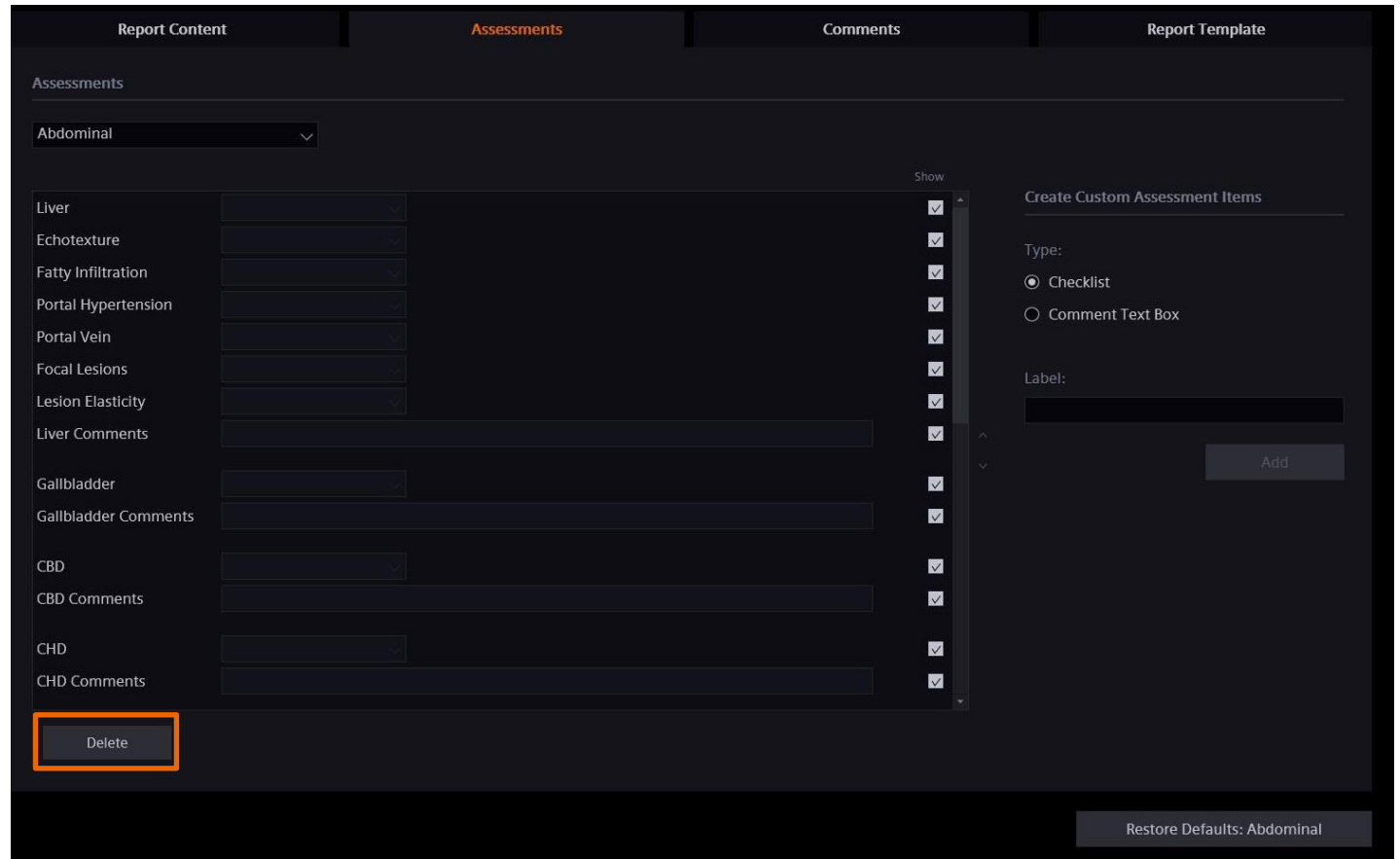
- Type:** A label followed by two radio button options: "Checklist" and "Comment Text Box". An orange circle with the number "1" is placed over the "Type:" label.
- Label:** A label followed by a text input field containing the text "Test Label". An orange circle with the number "2" is placed over the "Label:" label.
- Add:** A button labeled "Add" located at the bottom right. An orange circle with the number "3" is placed over the "Add" button.

Report configuration tab

Delete custom assessment item

To delete a custom assessment item:

- Highlight the desired label
- Select **Delete**



Report configuration tab

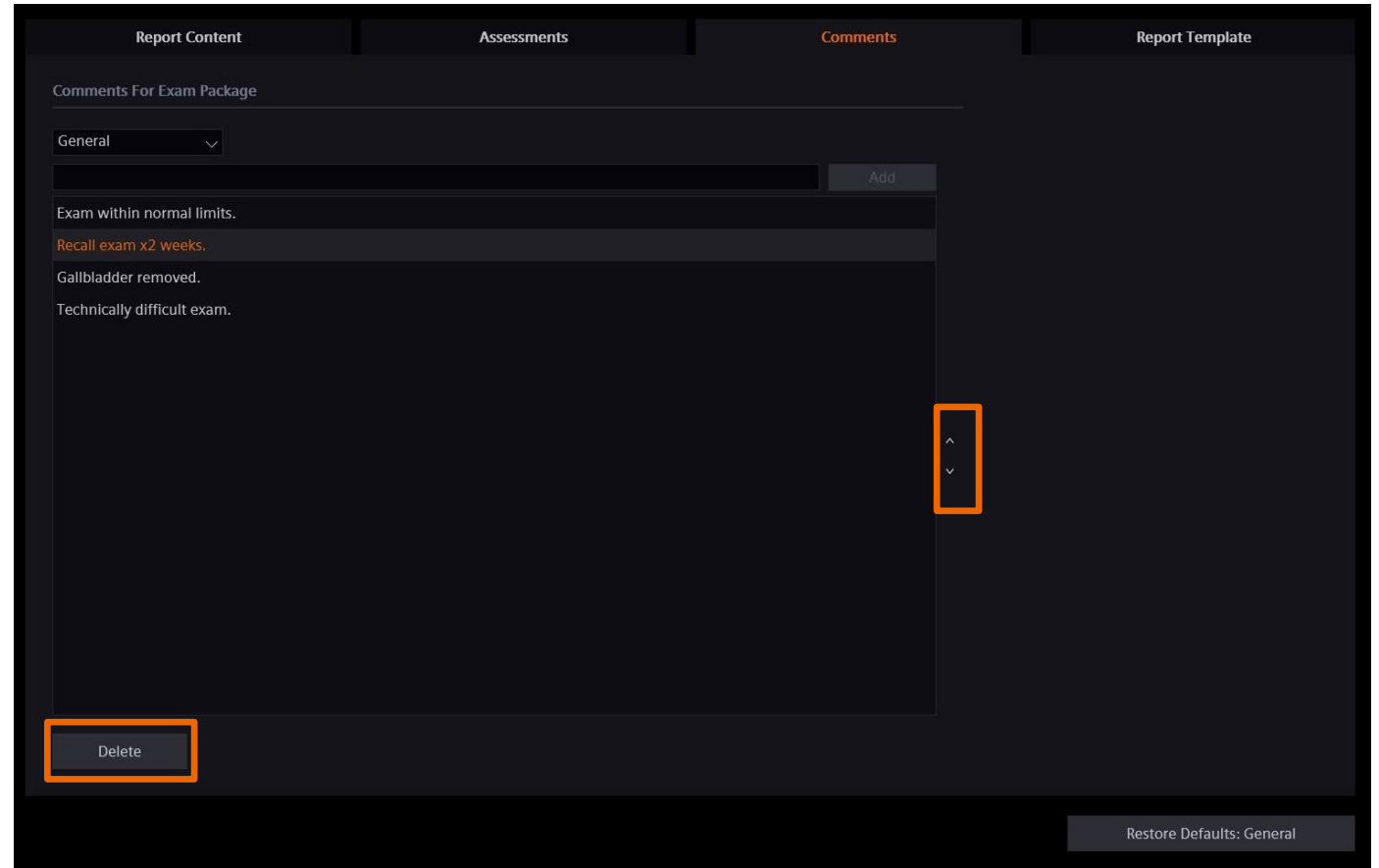
Comments

Pre-defined comments can be added to the report

- Select the exam package
- Enter comment in the space provided
- Select **Add**
- Re-order (if required) with the directional arrows

To delete a comment

- Highlight comment
- Select **Delete**



Report configuration tab

Report Template

- Customized logo and text can be added to the report via USB
- Three layout options for logo and text
- Logo file must be JPEG or PNG
- Three lines of text can be added and customized for style and font

The screenshot displays the 'Report Template' configuration tab within a software interface. The interface has a dark theme with a top navigation bar containing four tabs: 'Report Content', 'Assessments', 'Comments', and 'Report Template' (which is highlighted in orange). Below the navigation bar, the 'Site Information' section is visible. It includes a 'Details' panel on the left with three text input fields labeled 'Line 1', 'Line 2', and 'Line 3'. Each field has a corresponding font style dropdown menu: 'Line 1' is set to 'Large Bold', 'Line 2' to 'Medium Roman', and 'Line 3' to 'Medium Roman'. To the right of the 'Details' panel is a 'Details Layout' section with a 'Layout' dropdown menu set to 'Layout1'. Below the 'Layout' dropdown is a preview of the report template layout, showing a white box with a logo and three lines of text. At the bottom right of the interface is a 'Restore Defaults' button.

- Identify access to system configuration
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Thank you for your enthusiasm!

Questions?