



Structure Model Release Notes

Product: AutoContour

Date: 04/25/2023

New Structure Models

- CT A_Pulmonary Model Added
- CT Bladder_F Model Added
- CT Bone_Skull Model Added
- CT Bowel Model Added
- CT Bowel_Large Model Added
- CT Bowel_Small Model Added
- CT BuccalMucosa Model Added
- CT Chestwall_L Model Added
- CT Chestwall_R Model Added
- CT Chestwall_RC_L Model Added
- CT Chestwall_RC_R Model Added
- CT Colon_Sigmoid Model Added
- CT Duodenum Model Added
- CT Gallbladder Model Added
- CT Genitals_F Model Added
- CT Genitals_M Model Added
- CT Hippocampus_L Model Added
- CT Hippocampus_R Model Added
- CT Larynx_Glottic Model Added
- CT Larynx_NRG Model Added
- CT Larynx_SG Model Added
- CT LN_Ax_L1_L Model Added
- CT LN_Ax_L1_R Model Added
- CT LN_Ax_L2_L Model Added
- CT LN_Ax_L2_R Model Added
- CT LN_Ax_L3_L Model Added

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- CT LN_Ax_L3_R Model Added
 - CT LN_Ax_L2_L3_L Model Added
 - CT LN_Ax_L2_L3_R Model Added
 - CT LN_IMN_RC_L Model Added
 - CT LN_IMN_RC_R Model Added
 - CT LN_Neck_II-V_L Model Added
 - CT LN_Neck_II-V_R Model Added
 - CT LN_Neck_V_L Model Added
 - CT LN_Neck_V_R Model Added
 - CT LN_Paraaortic Model Added
 - CT LN_Sclav_RC_L Model Added
 - CT LN_Sclav_RC_R Model Added
 - CT Lobe_Temporal_L Model Added
 - CT Lobe_Temporal_R Model Added
 - CT Pancreas Model Added
 - CT Pericardium Model Added
 - CT Rectum_F Model Added
 - CT UteroCervix Model Added
 - CT V_Venacava_I Model Added
 - CT VB Model Added
 - CT VB_C1 Model Added
 - CT VB_C2 Model Added
 - CT VB_C3 Model Added
 - CT VB_C4 Model Added
 - CT VB_C5 Model Added
 - CT VB_C6 Model Added
 - CT VB_C7 Model Added
 - CT VB_L1 Model Added
 - CT VB_L2 Model Added
 - CT VB_L3 Model Added
 - CT VB_L4 Model Added
 - CT VB_L5 Model Added
 - CT VB_T01 Model Added
 - CT VB_T02 Model Added
 - CT VB_T03 Model Added
 - CT VB_T04 Model Added
 - CT VB_T05 Model Added
 - CT VB_T06 Model Added
 - CT VB_T07 Model Added

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- CT VB_T08 Model Added
 - CT VB_T09 Model Added
 - CT VB_T10 Model Added
 - CT VB_T11 Model Added
 - CT VB_T12 Model Added
 - MR T1 Cerebellum Model Added
 - MR T2 GInd_Prostate Model Added
 - MR T1 Hypothalamus Model Added
 - MR T1 Hypo_True Model Added
 - MR T1 OpticTract_L Model Added
 - MR T1 OpticTract_R Model Added
 - MR T1 Pituitary Model Added
 - MR T2 Prostate Model Added
 - MR T2 SeminalVes Model Added
 - MR T1 Eye_L Model Added
 - MR T1 Eye_R Model Added

Updated Structure Models

- CT Bowel_Bag Model Updated
- CT CaudaEquina Model Updated
- CT HDR_Cylinder Model Updated
- CT LN_Pelvics_NRG Model Updated
- CT Lung_L Model Updated
- CT Lung_R Model Updated
- CT SpinalCord Model Updated
- CT Spleen Model Updated
- CT Stomach Model Updated

Structure Model Release History

Structure Model ID	Release Date	Release Comment
A_Aorta	3/8/2021	- Initial model
	6/9/2021	- Improved accuracy by combining A_Aorta_Asc and A_Aorta_Dsc as the new A_Aorta. Original A_Aorta model has been retired.
A_Aorta_Asc	6/9/2021	- Initial model
A_Aorta_Dsc	6/9/2021	- Initial model
A_LAD	11/15/2021	- Initial Model.
	03/01/2022	- Updated post-processing to prevent blocky shape when multiple segments on the same slice are found.
A_Pulmonary	04/25/2023	- Initial model
Bladder	2/11/2021	- Initial model
	10/29/2021	- Updated model to address instances where Bladder is not found.
Bladder_F	04/25/2023	- Initial model trained on Female Pelvis scans
Bone_Ilium_L	12/17/2021	- Initial model
Bone_Ilium_R	12/17/2021	- Initial model
Bone_Mandible	2/11/2021	- Initial model
	8/6/2021	- Model updated to improve contour resolution for small segments
Bone_Pelvic	05/25/2022	- Initial model
Bone_Skull	04/25/2023	- Initial model
Bone Sternum	03/01/2022	- Initial model
Bowel	04/25/2023	- Initial model

Bowel_Bag	2/11/2021	- Initial model
	4/6/2021	- New segmentation model to address spill out.
	11/15/2021	- Model updated to address contour mislocalization.
	04/25/2023	- Updated model to improve accuracy
Bowel_Large	04/25/2023	- Initial model
Bowel_Small	04/25/2023	- Initial model
BrachialPlex_L	3/26/2021	- Initial model
	6/9/2021	- Model updated to extend contours out to Humeral head
	12/17/2021	- Model post-processing updated to address blocky contour shape for rotated patient.
	04/25/2023	- Updated post-processing to address interpolation issues when multiple segments are found on the same slice.
BrachialPlex_R	3/26/2021	- Initial model
	6/9/2021	- Model updated to extend contours out to Humeral head
	12/17/2021	- Model post-processing updated to address blocky contour shape for rotated patient.
	04/25/2023	- Updated post-processing to address interpolation issues when multiple segments are found on the same slice.
Brain	2/11/2021	- Initial model
Brainstem	2/11/2021	- Initial model
	12/05/2022	- Added MR T1 model
Breast_L	8/6/2021	- Initial model. Supine model following RTOG consensus guidelines
Breast_R	8/6/2021	- Initial model. Supine model following RTOG consensus guidelines
Bronchus	2/11/2021	- Initial model

BuccalMucosa	04/25/2023	- Initial model
Carina	2/11/2021	- Initial model
CaudaEquina	3/8/2021 6/9/2021 04/25/2023	- Initial model -Updated model post processing to reduce false positive localization - Updated model to use VB_L2 model for superior border determination
Cavity_Oral	2/11/2021	- Initial model
Cavity_Oral_Ext	05/25/2022	- Initial model
Cerebellum	04/25/2023	- Initial MR T1 model
Chestwall_L	04/25/2023	- Initial model following RTOG guidelines
Chestwall_R	04/25/2023	- Initial model following RTOG guidelines
Chestwall_OAR	03/01/2022	- Initial model
Chestwall_RC_L	04/25/2023	- Initial model following RADCOMP guidelines
Chestwall_RC_R	04/25/2023	- Initial model following RADCOMP guidelines
Cochlea_L	2/11/2021 3/18/2021	- Initial model - New model using brain for localization
Cochlea_R	2/11/2021 3/18/2021	- Initial model - New model using brain for localization
Colon_Sigmoid	04/25/2023	- Initial model
Cornea_L	05/25/2022	- Initial model
Cornea_R	05/25/2022	- Initial model
Duodenum	04/25/2023	- Initial model
Ear_Internal_L	3/8/2021	- Initial model
Ear_Internal_R	3/8/2021	- Initial model

Esophagus	2/11/2021	- Initial model
	5/5/2021	- Updated the model to address missing slices
External	11/15/2021	- Initial model
Eye_L	2/11/2021	- Initial model
	04/25/2023	- Added MR T1 model
Eye_R	2/11/2021	- Initial model
	04/25/2023	- Added MR T1 model
Femur_L	2/11/2021	- Initial model
Femur_R	2/11/2021	- Initial model
Femur_Head_L	05/25/2022	- Initial model
Femur_Head_R	05/25/2022	- Initial model
Femur_RTOG_L	07/08/2021	- Initial model. Inferior border defined by inferior aspect of the Ischium
Femur_RTOG_R	07/08/2021	- Initial model. Inferior border defined by inferior aspect of the Ischium
Gallbladder	04/25/2023	- Initial model
Genitals_F	04/25/2023	- Initial model
Genitals_M	04/25/2023	- Initial model
GlnD_LacrimaL_L	2/11/2021	- Initial model
GlnD_LacrimaL_R	2/11/2021	- Initial model
GlnD_Prostate	04/25/2023	- Initial MR T2 model
GlnD_Submand_L	2/11/2021	- Initial model
GlnD_Submand_R	2/11/2021	- Initial model
GlnD_Thyroid	3/8/2021	- Initial model
	6/9/2021	- Updated model post-processing to crop away from

		A_Carotid and V_Jugular for contrast scans.
HDR_Cylinder	10/29/2021 04/25/2023	- Initial model - Updated model to improve results on scans with a limited FOV.
Heart	2/11/2021 11/15/2021	- Initial model - Updated model to address under-contouring when partially scanned.
Hippocampus_L	12/05/2022 04/25/2023	- Initial MR T1 Model - Added CT model
Hippocampus_R	12/05/2022 04/25/2023	- Initial MR T1 Model - Added CT model
Humerus_L	10/29/2021	- Initial model
Humerus_R	10/29/2021	- Initial model
Hypothalamus	04/25/2023	- Initial MR T1 model includes mammillary bodies
Hypo_True	04/25/2023	- Initial MR T1 model of true hypothalamus
Kidney_L	2/11/2021	- Initial model
Kidney_R	2/11/2021	- Initial model
Kidney_Outer_L	11/15/2021	- Initial model. Hilum removed.
Kidney_Outer_R	11/15/2021	- Initial model. Hilum removed.
Larynx	3/12/2021	- Initial model
Larynx_Glottic	04/25/2023	- Initial model
Larynx_SG	04/25/2023	- Initial model
Larynx_NRG	04/25/2023	- Initial model includes glottic and supraglottic larynx
Lens_L	2/11/2021	- Initial model
Lens_R	2/11/2021	- Initial model

Lips	09/17/2021	- Initial model
Liver	2/11/2021	- Initial model
	09/17/2021	- Updated model to improve resolution and accuracy
	11/15/2021	- Updated model to address Liver overlap with Heart.
	03/01/2022	- Updated model to minimize false positive identification.
	03/22/2022	- Updated to prevent crash on partial scans leading Liver/Kidney models being returned as Not Found.
LN_Ax_L	8/6/2021	- Initial model. Level I, II, and III Left Axillary Lymph Nodes following RTOG consensus guidelines.
LN_Ax_R	8/6/2021	- Initial model. Level I, II, and III Right Axillary Lymph Nodes following RTOG consensus guidelines.
LN_Ax_L1_L	04/25/2023	- Initial model
LN_Ax_L1_R	04/25/2023	- Initial model
LN_Ax_L2_L	04/25/2023	- Initial model
LN_Ax_L2_R	04/25/2023	- Initial model
LN_Ax_L3_L	04/25/2023	- Initial model
LN_Ax_L3_R	04/25/2023	- Initial model
LN_Ax_L2_L3_L	04/25/2023	-Initial model Level II and III Left Axillary Lymph Nodes following RTOG consensus guidelines
LN_Ax_L2_L3_R	04/25/2023	- Initial model Level II and III Right Axillary Lymph Nodes following RTOG consensus guidelines
LN_IMN_L	8/6/2021	- Initial model. Left Internal Mammary Lymph Nodes following RTOG consensus guidelines
LN_IMN_R	8/6/2021	- Initial model. Right Internal Mammary Lymph Nodes following RTOG consensus guidelines
LN_IMN_RC_L	04/25/2023	- Initial model following RADCOMP guidelines
LN_IMN_RC_R	04/25/2023	- Initial model following RADCOMP guidelines

LN_Inguinofem_L	05/25/2022	- Initial model
LN_Inguinofem_R	05/25/2022	- Initial model
LN_Neck_IA	10/29/2021	- Initial model
LN_Neck_IB-V_L	10/29/2021	- Initial model
LN_Neck_IB-V_R	12/17/2021	- Initial model
LN_Neck_II_L	12/17/2021	- Initial model
LN_Neck_II_R	12/17/2021	- Initial model
LN_Neck_III_L	12/17/2021	- Initial model
LN_Neck_III_R	12/17/2021	- Initial model
LN_Neck_IV_L	12/17/2021	- Initial model
LN_Neck_IV_R	12/17/2021	- Initial model
LN_Neck_II-IV_L	10/29/2021	- Initial model
LN_Neck_II-IV_R	10/29/2021	- Initial model
LN_Neck_II-V_L	05/25/2022	- Initial model
LN_Neck_II-V_R	05/25/2022	- Initial model
LN_Neck_V_L	04/25/2023	- Initial model
LN_Neck_V_R	04/25/2023	- Initial model
LN_Neck_VIA	10/29/2021	- Initial model
LN_Neck_VIIA_L	10/29/2021	- Initial model
LN_Neck_VIIA_R	10/29/2021	- Initial model
LN_Neck_VIIB_L	10/29/2021	- Initial model
LN_Neck_VIIB_R	10/29/2021	- Initial model
LN_Paraaortic	04/25/2023	- Initial model

LN_Pelvics	5/15/2021	- Initial model
LN_Pelvics_NRG	05/25/2022 04/25/2023	- Initial model - Updated post-processing to crop out Bladder
LN_Sclav_L	8/6/2021	- Initial model. Left Supraclavicular Lymph Nodes following RTOG consensus guidelines
LN_Sclav_R	8/6/2021	- Initial model. Left Supraclavicular Lymph Nodes following RTOG consensus guidelines
LN_Sclav_RC_L	04/25/2023	- Initial model following RADCOMP guidelines
LN_Sclav_RC_R	04/25/2023	- Initial model following RADCOMP guidelines
Lobe_Temporal_L	04/25/2023	- Initial model
Lobe_Temporal_R	04/25/2023	- Initial model
Lung_L	2/11/2021 5/5/2021 10/29/2021 04/25/2023	- Initial model - Updated the model to address under-contouring - Updated model to address over-contouring into Ribs, Heart, and Bronchus - Updated model to prevent false positive results outside the body.
Lung_R	2/11/2021 5/5/2021 10/29/2021 04/24/202	- Initial model - Updated the model to address under-contouring - Updated model to address over-contouring into Ribs, Heart, and Bronchus - Updated model to prevent false positive results outside the body.
Macula_L	05/25/2022	- Initial model
Macula_R	05/25/2022	- Initial model
Marrow_Ilium_L	12/17/2021	- Initial model
Marrow_Ilium_R	12/17/2021	- Initial model
Musc_Constrict	09/17/2021	- Initial model

Nipple_L	05/25/2022	- Initial model
Nipple_R	05/25/2022	- Initial model
OpticChiasm	3/8/2021 3/17/2021 12/05/2022	- Initial model - Updated the model to address under-contouring - Added MR T1 model
OpticNrv_L	2/11/2021 12/05/2022	- Initial model - Added MR T1 model
OpticNrv_R	2/11/2021 12/05/2022	- Initial model - Added MR T1 model
OpticTract_L	04/25/2023	- Initial MR T1 model
OpticTract_R	04/25/2023	- Initial MR T1 model
Pancreas	04/25/2023	- Initial model
Parotid_L	2/11/2021 10/29/2021	- Initial model - Updated model to better include wrap around Mandible
Parotid_R	2/11/2021 10/29/2021	- Initial model - Updated model to better include wrap around Mandible
PenileBulb	5/15/2021	- Initial model
Pericardium	04/25/2023	- Initial model
Pituitary	09/17/2021 04/25/2023	- Initial model - Added MR T1 model
Prostate	2/11/2021 3/18/2021 04/25/2023	- Initial model - updated localization model to improve results for short scans - Added MR T2 model

Rectum	2/11/2021	- Initial model
	10/29/2021	- Updated model to remove HDR_Cylinder if found in the scan
Rectum_F	04/25/2023	- Initial model trained on Female Pelvis scans
Retina_L	05/25/2022	- Initial model
Retina_R	05/25/2022	- Initial model
Rib	03/01/2022	- Initial model
	03/22/2022	- Updated to prevent crash on partial scans resulting in contour Not Found.
Rib_L	05/25/2022	- Initial model
Rib_R	05/25/2022	- Initial model
SeminalVes	5/15/2021	- Initial model
	04/25/2023	- Added MR T2 model
SpinalCanal	3/8/2021	- Initial model
	12/17/2021	- Updated post-processing to eliminate inappropriate slice removal after false Brainstem detection.
	03/22/2022	- Updated post-processing to minimize contours outside of canal
SpinalCord	2/11/2021	- Initial model
	6/9/2021	- Updated model to address possibility of missed detections.
	07/08/2021	- Updated model to reduce over-contouring at the base of the skull.
	09/17/2021	- Updated model to prevent partial segments from being contoured.
	10/29/2021	- Updated model to minimize slice gaps
	12/17/2021	- Updated post-processing to eliminate inappropriate slice removal after false Brainstem detection.
	04/25/2023	- Updated post-processing to match updated

		CaudaEquina result at inferior border.
Spleen	03/01/2022	- Initial model
	04/25/2023	- Updated model to prevent cut-off issue.
Stomach	2/11/2021	- Initial model
	04/25/2023	- Updated model to improve accuracy.
Trachea	3/17/2021	- Initial model
UteroCervix	04/25/2023	- Initial model
V_Venacava_I	04/25/2023	- Initial model
V_Venacava_S	3/8/2021	- Initial model
VB	04/25/2023	- Initial model
VB_C1	04/25/2023	- Initial model
VB_C2	04/25/2023	- Initial model
VB_C3	04/25/2023	- Initial model
VB_C4	04/25/2023	- Initial model
VB_C5	04/25/2023	- Initial model
VB_C6	04/25/2023	- Initial model
VB_C7	04/25/2023	- Initial model
VB_L1	04/25/2023	- Initial model
VB_L2	04/25/2023	- Initial model
VB_L3	04/25/2023	- Initial model
VB_L4	04/25/2023	- Initial model
VB_L5	04/25/2023	- Initial model
VB_T01	04/25/2023	- Initial model
VB_T02	04/25/2023	- Initial model

VB_T03	04/25/2023	- Initial model
VB_T04	04/25/2023	- Initial model
VB_T05	04/25/2023	- Initial model
VB_T06	04/25/2023	- Initial model
VB_T07	04/25/2023	- Initial model
VB_T08	04/25/2023	- Initial model
VB_T09	04/25/2023	- Initial model
VB_T10	04/25/2023	- Initial model
VB_T11	04/25/2023	- Initial model
VB_T12	04/25/2023	- Initial model