

T H E A R T O F M A P P I N G

CARTO PRIME™
Module



Advanced Mapping Re-framed

CARTO® 3 System Version 7 and the CARTO PRIME™ Mapping Module offers advancement in 3D mapping technology. From signals to diagnosis, across a wide range of procedures, we are re-framing the future of electrophysiology. Discover the Art of Mapping.

* Based on clinical evaluation where physicians, in 547 procedures, expressed high satisfaction with the FAM improvements compared with previous CARTO® 3 versions as well stating that with CARTO® 3 Version 7 FAM is better, more accurate and requires less manual editing.

Let's Start with the Basics

The CARTO® 3 System Version 7 experience begins with electrophysiology foundations - improved unipolar signal quality and Advanced Reference Annotation (ARA), intuitive rhythm change detection, LAT histogram and much more ...

Enhanced User Experience and Depth of Information

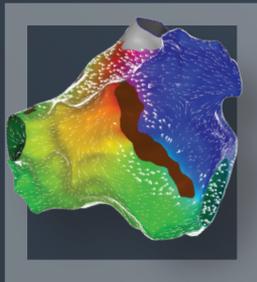
Better and faster* geometry with enhanced Fast Anatomical Mapping (FAM) more points, more maps.

A Complete Line of Arrhythmia Mapping Solutions

Fully integrated EP mapping system further increasing your CARTO® 3 System versatility.

Advanced and Complete The Essential Mapping Capabilities

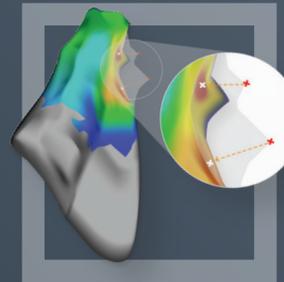
Powerful Atrial Arrhythmia Solutions



Coherent Mapping

May simplify the diagnosis of scar-related complex atrial arrhythmia by applying physiological constraints on LAT information.¹

The VT Essentials

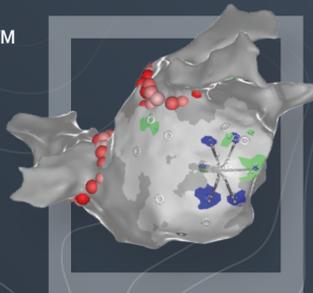


LAT Hybrid

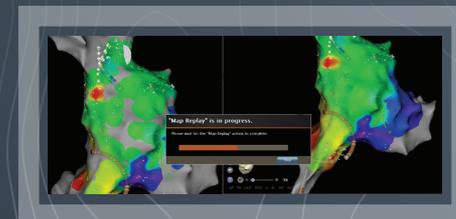
Increased Premature Ventricular Contraction (PVC) mapping location accuracy by adapting PVC activation to its corresponding Normal Sinus Rhythm location.²

CARTOFINDER™ MODULE

Expands the CARTO® 3 System mapping capabilities to irregular atrial arrhythmia, identifying repetitive focal and rotational activations patterns.³



Parallel Mapping & Map Replay



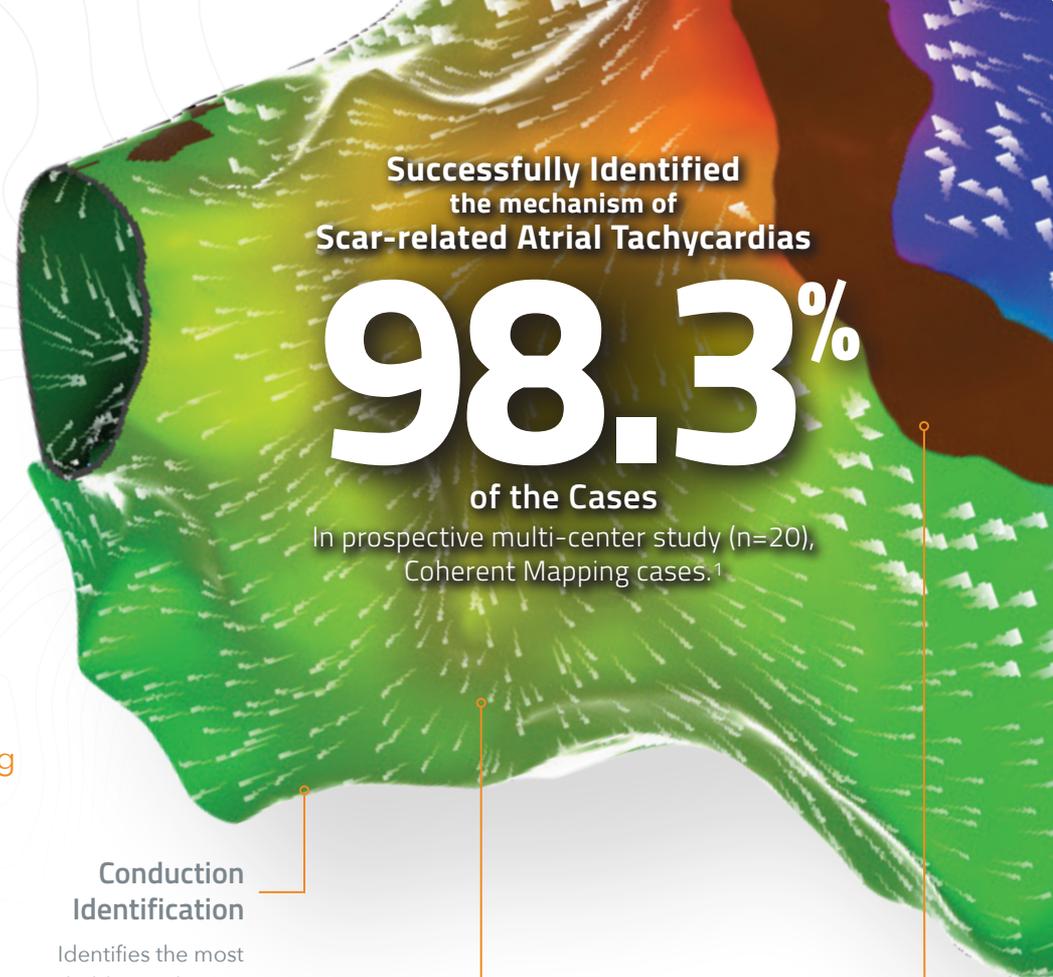
Enhances mapping efficiencies by enabling prospective creation of multiple VT maps simultaneously (Parallel Mapping) or retrospectively (Map Replay) from the same diagnostic catheter locations.

Coherent Mapping

Complex Atrial Tachycardia

Coherent Mapping may simplify the diagnosis of scar-related complex atrial arrhythmia by applying physiological constraints on LAT information.¹

- May simplify Identification of Conduction Mechanism¹
- Identify Patterns of Propagation with Conduction Velocity Vectors¹
- Increased* Reproducibility¹



Successfully Identified
the mechanism of
Scar-related Atrial Tachycardias

98.3%

of the Cases

In prospective multi-center study (n=20),
Coherent Mapping cases.¹

Conduction Identification

Identifies the most probable conduction mechanism throughout the entire chamber.

Conduction Velocity Vectors

Assist in identifying slower conduction compared to rest of the chamber.

Conduction Barrier Zones

SNO (slow or no) conduction zones. Clearly displays areas which are physiological barriers.

* 95% agreement between blinded reviewers on the tachycardia mechanism vs. 80% with standard LAT mapping, (n=60).

CARTOFINDER™ MODULE Irregular Atrial Arrhythmia

Expands the CARTO® 3 System mapping capabilities to irregular atrial arrhythmia, identifying repetitive focal and rotational activation patterns.³

- Fully Integrated Solution
- Fully Automated Regions of Interest Detection
- Standard Reproducible Mapping Workflow

Repetitive Rotational Activation Pattern

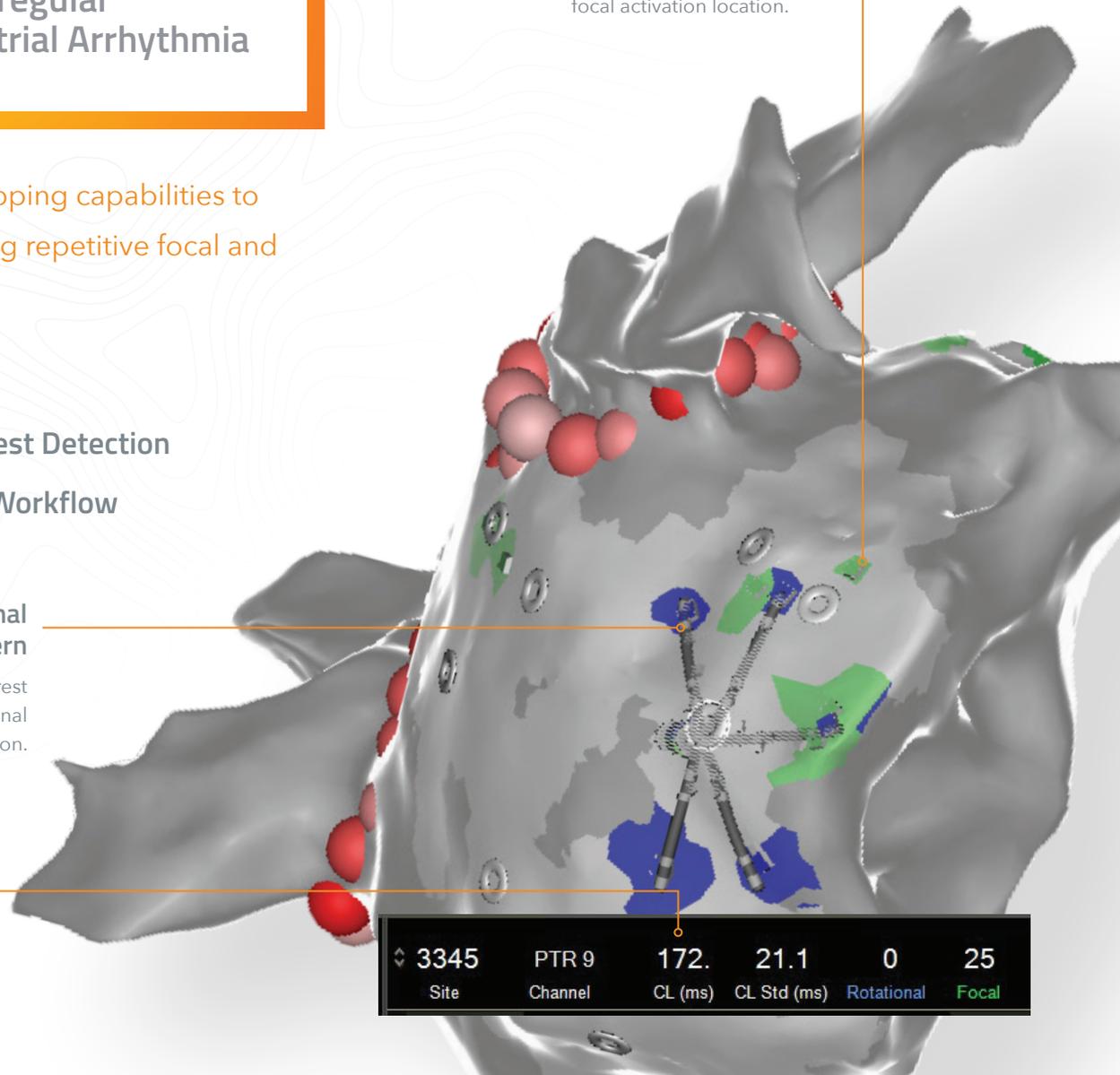
Region of interest
indicating rotational
activation location.

AF Cycle Length

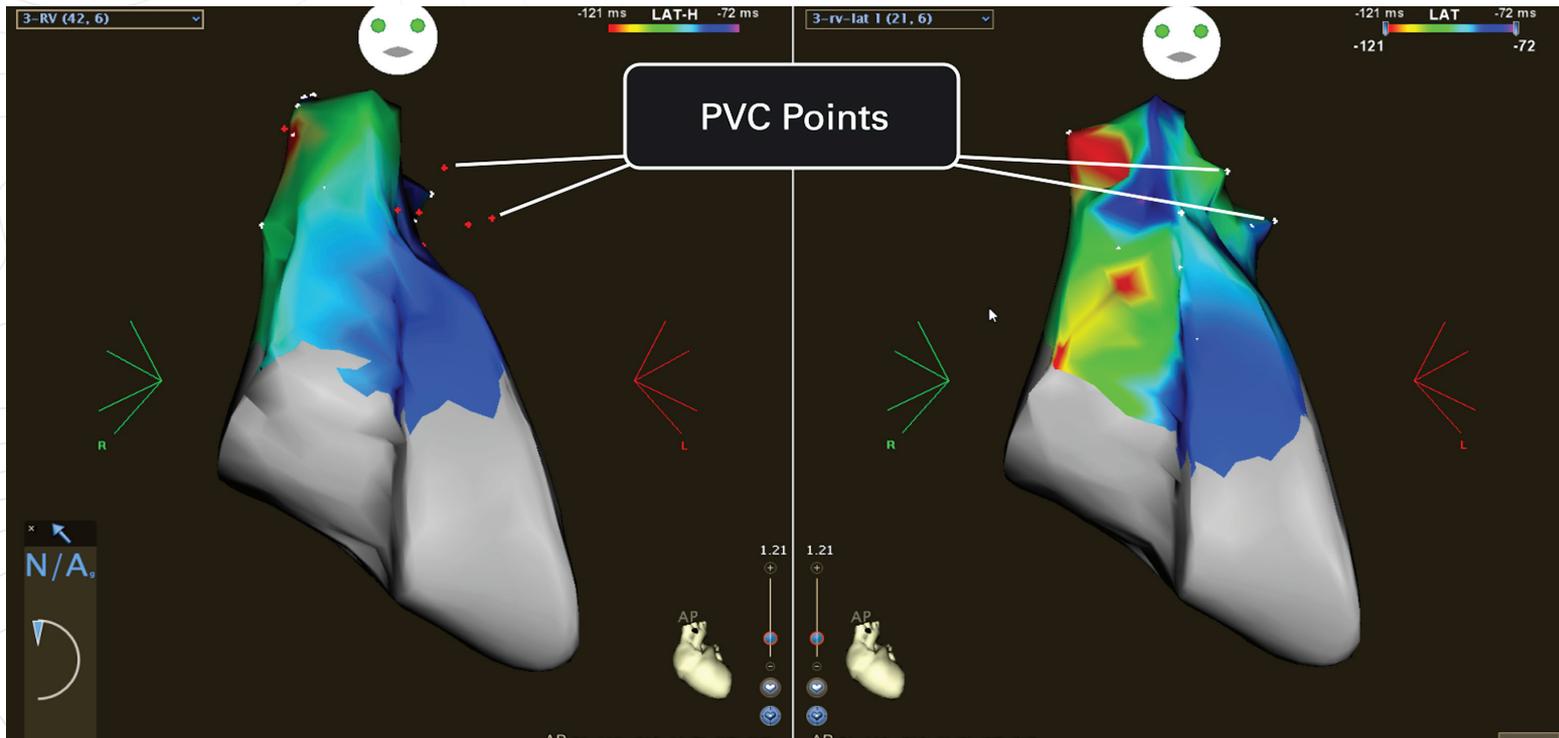
Cycle Length Information
associated with each
location.

Repetitive Focal Activation Pattern

Region of interest indicating
focal activation location.



3345	PTR 9	172.	21.1	0	25
Site	Channel	CL (ms)	CL Std (ms)	Rotational	Focal



LAT Hybrid

VT Solution

LAT Hybrid provides increased location accuracy compared with standard PVC mapping by associating the PVC map LAT information to its corresponding Normal Sinus Rhythm location.²

- Increased Accuracy
- Fully Integrated PVC Adjustment Algorithm
- Reproducibility by Seamless Automated Workflow

Parallel Mapping

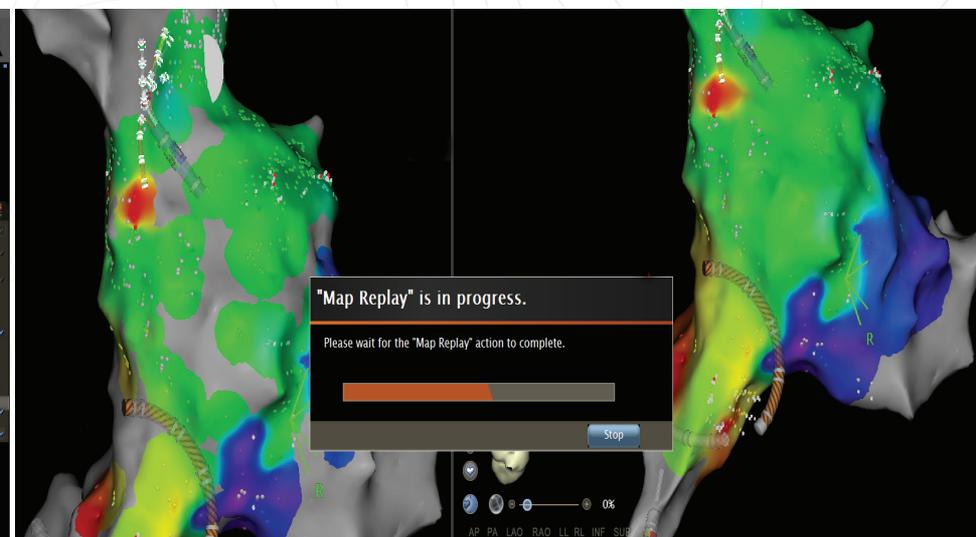
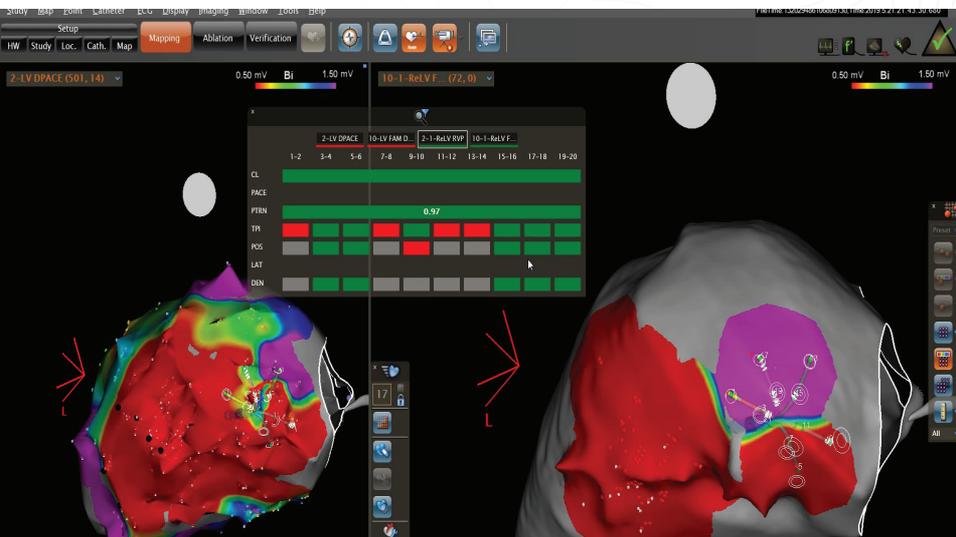
Multiple Ventricular Tachycardia

Parallel Mapping allows for simultaneous mapping of different arrhythmia using the same catheter locations.

Map Replay

Multiple Ventricular Tachycardia

Map Replay enables the creation of multiple maps retrospectively for the purpose of mapping different arrhythmia using the same catheter locations.

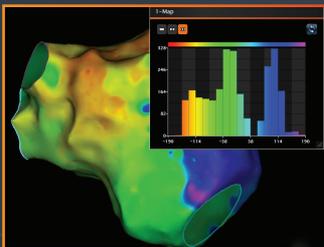


- Capture 2nd Arrhythmia Prospectively and Retrospectively
- Data is Always Accessible, never miss a beat
- Versatility Without Compromise

Advanced Reference Annotation

Consistent. Accurate. Robust.

Advanced Reference Annotation (ARA) is a novel multi-channel algorithm that provides consistent accurate and robust reference annotations for the detection of atrial and ventricular arrhythmias.*



LAT Histogram

Immediate detection of the full captured arrhythmia CL span.



Previous Beat Overlay

Immediate detection of arrhythmia change.

Improved User Experience

- FAM Improvements
- Increased Number of Points and Maps
- Accelerated Processing
- Better Signal Quality
- Automated LAT Consistency
- Access to Media Files During the Study
- And Much More ...

* 98% average stability rate consists of 94 test vectors with more than 69000 annotations, annotated by 8 experienced physicians. 96% average detection rate consists of 94 test vectors with more than 69000 annotations, annotated by 8 experienced physicians.

CARTO PRIME™ Module Advanced Mapping Re-framed

Ordering Number	Description
KT-5400-222	CARTO PRIME™ Module including CARTO PRIME™ Workstation and V7 Base
KT-5400-222U	CARTO PRIME™ Module including CARTO PRIME™ Workstation and V7 Base OBL*
KT-5400-221	CARTO® 3 System V7 Base Upgrade Kit
KT-5400-221U	CARTO® 3 System V7 Base Upgrade Kit OBL*
C3REPLAY	CARTOREPLAY™ Module
C3CNFDRPLY	CARTO® 3 CONFIDENSE™ Mapping Module & CARTOREPLAY™ Module
KT-5400-50	Ablation Index software CD including DELL T5810 workstation
KT-5400-50U	Ablation Index software CD including DELL T5810 workstation OBL*

* OBL stands for 'Own Brand Labeling'.

The logo for the CARTO 3 System is centered within a thick orange rectangular border. The word "CARTO" is in a large, bold, white sans-serif font, followed by a registered trademark symbol (®) and the number "3". Below "CARTO 3", the word "System" is written in a smaller, white sans-serif font. The background of the logo area is a dark grey, stylized "V" shape.

CARTO[®] 3 System

T H E A R T O F M A P P I N G

1. Anter E et al. Activation Mapping With Integration of Vector and Velocity Information Improves the Ability to Identify the Mechanism and Location of Complex Scar Related Atrial Tachycardias. *Circ Arrhythm Electrophysiol.* 2018;11:e006536. 2. Steyers III CM et al. Ablation using 3D maps adjusted for spatial displacement of premature ventricular complexes relative to sinus beats: Improving precision by correcting for the shift. *J Cardiovasc Electrophysiol.* 2019;1–7. 3. Bench testing performed by Biosense Webster, Inc. CARTO® 3 V7 CARTOFINDER Algorithm POD Report February 2019.

EC Representative | Biosense Webster
A Division of Johnson & Johnson Medical NV/SA
Leonardo da Vincilaan 15 | 1831 Diegem, Belgium
Tel: +32-2-7463-401 | Fax: +32-2-7463-403

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The Biosense Webster logo consists of a stylized, white, circular graphic element resembling a heart or a signal waveform, positioned to the left of the company name.

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