



# AMPS Fact Sheet

## Company Overview

AMPS is a leading edge software company providing software solutions for the display and analysis of ECG traces and blood pressure monitoring. Originally focused on the needs of Clinical Research Organizations and Pharmaceutical corporations in the context of clinical trials for new drugs, AMPS has expanded into the medical world with a set of tools for the healthcare. AMPS has been investing for the last 18 years more than 50% of its annual revenues in R&D activities, and is nowadays the leader in its industry. By a conservative estimate more than 50% of the ecgs submitted for review to the FDA in the context of clinical trials each year are processed using AMPS tools.

## Founded

AMPS was created by Dr. Fabio Badilini FACC in 1999, after several years spent in the academic and research environment working closely with cardiologists both in the United States and in Europe. The AMPS brand stands for "Analyzing Medical Parameters for Solutions".

## Mission

Through sharing and understanding client requirements and expectations, AMPS designs and provides ad-hoc state of the art technology, clinical expertise, and statistical support in quantitative ECG analysis.

## Vision

Turn the science we develop into technology and continuously re-invest in research activities the majority of the profit gained in the process, thus providing our customers with the best possible tools and support in the most cost-effective way.

## Software Solutions

### *Clinical Trials and Research:*

- |                |  |
|----------------|--|
| ○ CalECG       | On-screen automated measurements           |
| ○ FAT-QT       | Fully automated T-QT studies               |
| ○ TrialPerfect | Back-end trial database management         |
| ○ FDAEcG Suite | Processing of xml FDA HL7 ecg files.       |
| ○ CER-S        | Processing of Holter recordings            |
| ○ Antares      | Snapshots extractor from Holter recordings |
| ○ WinAtrec     | Advanced analysis of Holter recordings     |

### *Healthcare:*

- ViewEcg                    Display of ecg traces in any format
- ECGSolve                Ecg format converter, pdf reports generator
- CloudCor                Web ecg analysis
- HeartScope             Advanced analysis of cardiovascular signals

### Services

- Conversion of ecg paper traces into digital waveforms
- Ecg file format conversion (any to any)
- FDA HL7 aEcg format verification and FDA submission
- Secondary analysis of halted studies due to drug-induced modifications
- Tele-Cardiology

### Patents

*June 2003:* Apparatus and method for reading and analyzing ECG images.

*November 2007:* Method and apparatus for extracting optimum holter ECG readings

*September 2008:* Method and system for converting paper ECG printouts to digital ECG files.

### Publications

*2009-2019:* AMPS-QT, a quarterly journal covering all aspects of methodology and software technology related to clinical trials and Thorough QT studies.

*Since 2021:* TAI: The AMPS Insider, a quarterly journal dedicated to all the customers of AMPS, providing updates on the products to the organizations involved in the world of cardiac safety.

### Milestones

- 1998*    Definition of the ISHNE Format for continuous recording
- 2003*    Definition of the aECG XML Format for the FDA
- 2003*    Dr Fabio Badilini receives the FDA Commissioner's Special Citation
- 2009*    Dr Fabio Badilini receives the Honorary Fellowship Award of the American College of Cardiology
- 2011*    Bravo algorithm announcement
- 2013*    Definition of the aECG XML Continuous recording Format for the FDA
- 2015*    Abile algorithm announcement

### Selected Customers

#### *Pharmaceutical Companies*

Abbott Laboratories	AstraZeneca
Johnson & Johnson	Khondrion BV
Roche	Pfizer
Gilead	Sigma Tau
Array BioPharma	Sanofi-Aventis
HUYA Bioscience International	Bayer Yakuhin
Rain Therapeutics	Valeant Pharmaceutical

### *CROs*

ERT	Spaulding Clinical
Cardio Analytics	Vitalograph
Celerion	IQVIA
Medpace	GoBio (Aka BioTelemetry)
Norav Medical	Ventana Clinical Research
Bioclinica	Banook Group

### *Manufacturers*

General Electric	Philips
Nihon Kohden	Schiller
Cardioline SpA	Rozinn Electronics
STMicroelectronics	ELA Medical
Global Instrumentation	Xeos

### *Hospitals*

Cedars-Sinai Medical Center	KHSHP Finland
Kaiser Permanente	Keski-Suomen Finland
Massachusetts Gen. Hospital	Danish National Hospital
Hôpital La Pitié-Salpêtrière	Royal Adelaide Hospital
Samsung Medical Center Seoul	Bordeaux CHU, France
Fondazione Salvatore Maugeri	Humanitas Istituto Clinico, Italy

### *Academia, Research, and Non Profit*

US Food and Drugs Administration	The Telemetric and Holter ECG
Championship Hearts Foundation	Warehouse (THEW)
Harvard University	Ulster University
Heart Research Follow-Up Program, University of Rochester	Universidade Rio de Janeiro - UERJ
Imperial College London	University of California
Maastricht University	University of Utah
Mayo Clinic	Utrecht University
Parkinson's Institute	Stanford University
	School of Medicine Duke University

**Operations** United States, Europe

**Headquarters** R&D, Services: Montichiari (BS), Italy  
Finance, Legal: New York, NY, USA  
Marketing and Sales: Paris, France

**Management** Fabio Badilini, President and Chief Scientist  
Daniel Bovio, SVP Contracts, Marketing and Sales

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## Sister Company: CardioCalm Italy

Company Overview	CardioCalm is a healthcare services company dedicated to development, marketing and sales of software and services to analyze cardiovascular signals, with a highly specific expertise in the field of the resting and continuous (aka Holter) electrocardiographic signals.
Founded	CardioCalm was created in 2010 as a spin-off to commercialize AMPS software solutions to the healthcare industry in Italy and in Europe.
Mission	To offer the most complete and reliable systems for analysis and measurement of continuous and resting ecgs in cooperation with the worldwide leaders in the hardware and software production.
Vision	To bring to the medical world the state of the art technology, and clinical expertise in quantitative ECG analysis, designed and developed by AMPS.
Headquarters	Montichiari (BS), Italy
Management	Fabio Badilini, President. Paolo Verzeletti, CEO.
Contact Information	CardioCalm Corso Martiri della Liberta' 40 25018 Montichiari (BS) <a href="http://cardiocalm.com">cardiocalm.com</a> email: <a href="mailto:info@cardiocalm.com">info@cardiocalm.com</a>