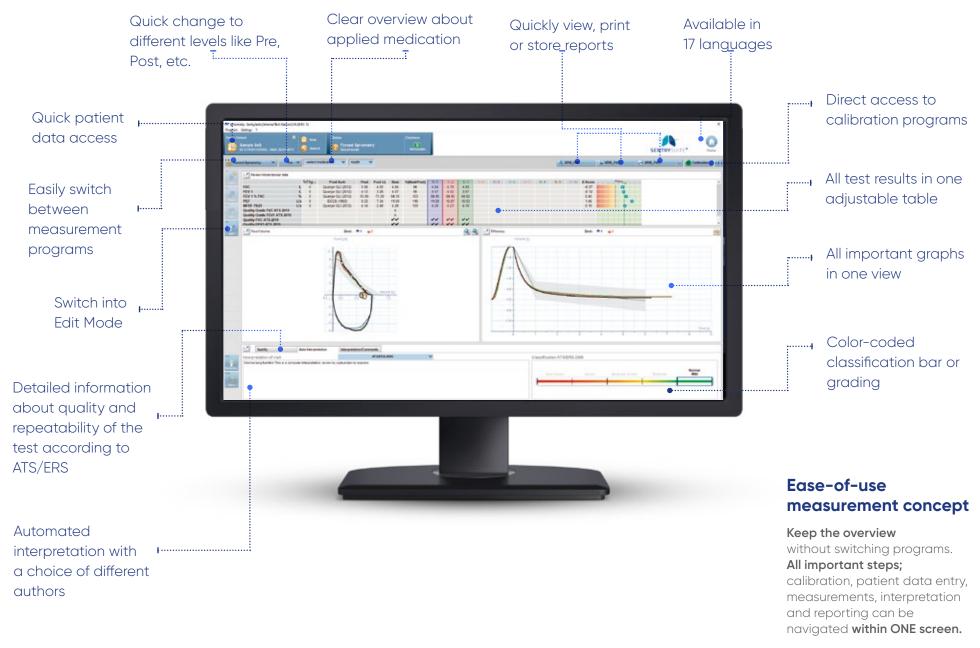
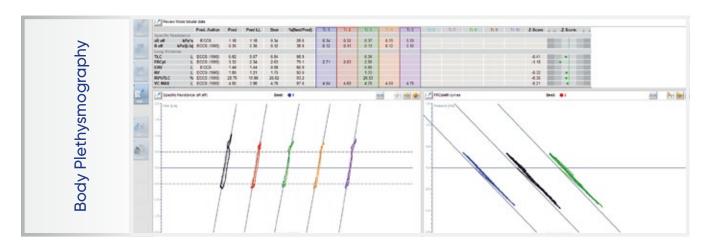


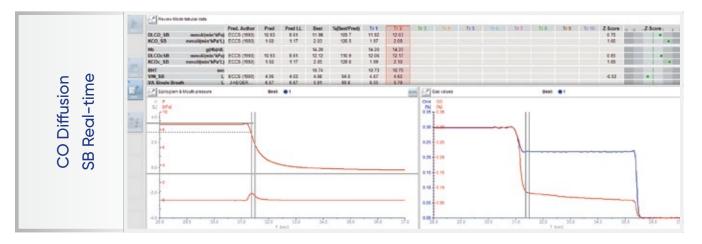
SentrySuite® software platform for intelligent respiratory diagnostics

SentrySuite 360° – one screen, all in



SentrySuite supports a comprehensive list of PFT and CPET measurements







Whether the **MasterScreen** series or the new **Vyntus**® series, they are all **powered by SentrySuite** – from small PC spirometers to high-end PFT to ECG and CPET devices.

All PFT measurement programs show the same graph and table arrangement with a consistent user interface. Intuitive operation and quick learning of new measurements are guaranteed.

Measurement capabilities:

Slow Spirometry

Forced Spirometry

MVV

Bronchial Challenge Testing

Body Plethysmography

FRC N₂ Washout

FRC HE Rebreathing

SB Diffusion Real-time

SB Diffusion Intrabreath

NO Diffusion

Rocc

Impulse Oscillometry (IOS)

Rhinomanometry

P0.1

MIP/MEP

SNIP

Compliance

Resting ECG

Stress ECG

CPET breath-by-breath

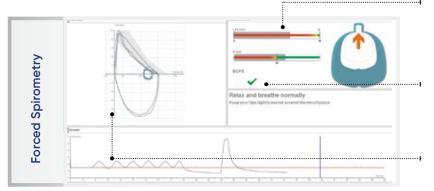
CPET mixing chamber

CPET High/Low FIO₂

REE Canopy

Guidance and Quality

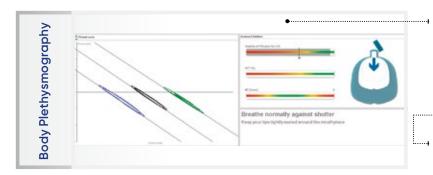
Coaching for operator and patient



Colored **guidance bar** for in-test exhalation time and plateau recognition

Check marks for spirometry end-offorced-expiration criteria

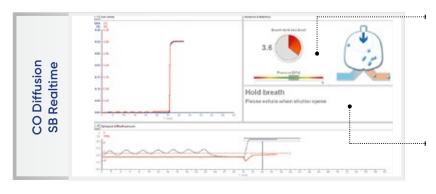
Online breathing curves



Colored stability bar for VT, BF, sRaw and FRCpleth during body plethysmography

• 🗸

FRCpleth notification for **reproducibility**



Breath-hold timer and mouth pressure control

Online textual guidance ideal for new personnel



Animation incentives

Choose from 10 different patient animations for forced spirometry.

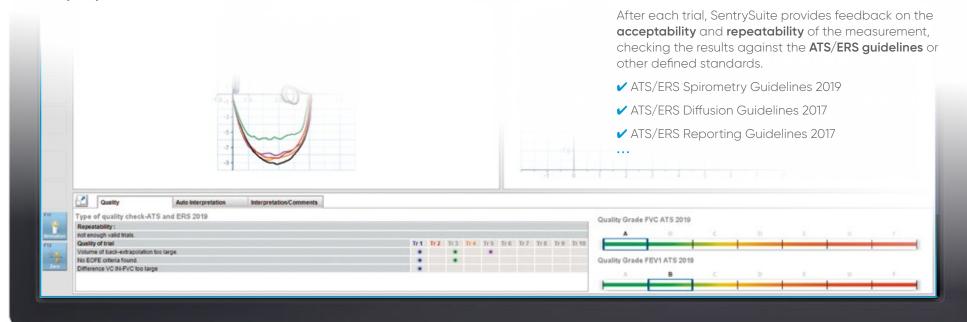




Adjust the target scale to your patient needs.

SentrySuite Quality Assurance-approved results

SentrySuite offers many tools to approve the quality and accuracy of your measurements.

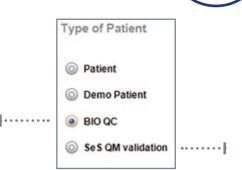




Biological Control

SentrySuite supports biologic control testing with a **separate BIO QC database.** The BIO QC data is easily identified and separated out for trending and further analysis.

According to the ATS/ERS guidelines, tests should be performed on a "standard subject".



Mechanical Quality Control

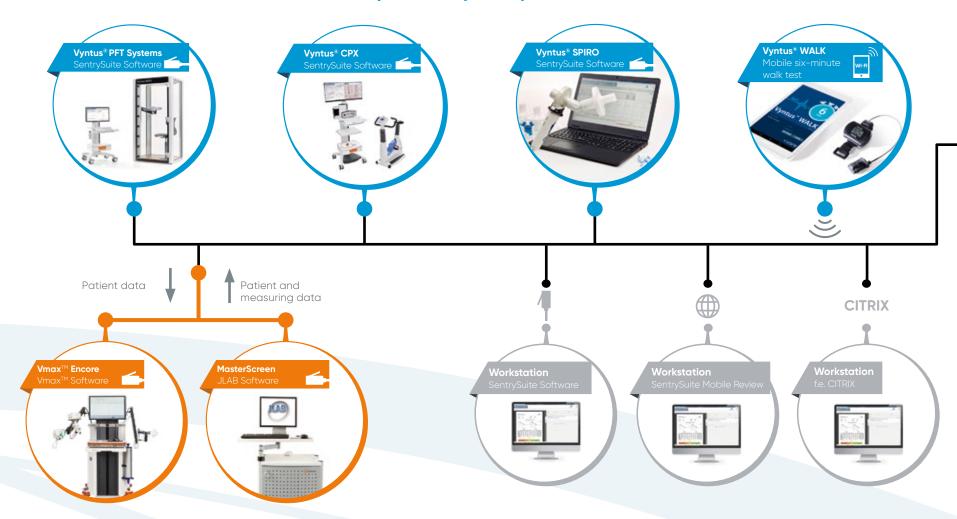
QUALITY CHECK

With SentrySuite Quality Management you can validate your measurement device using calibrated syringes, FRCpleth or DLCO simulators. Pre-defined special SeS QM patients automatically switch-off BTPS compensation and correct appropriately for mechanical dead space.

Networking

The united data of SentrySuite

Devices powered by SentrySuite Software



Older Devices

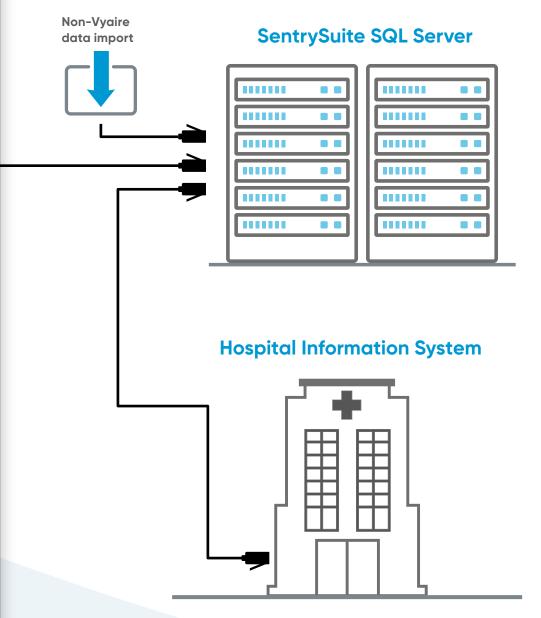
Renew your lab step by step. Vmax[™] Encore or JAEGER[®] devices running JLAB Software connect to the SentrySuite database.

Physician's review workplace

Use your existing network environments: client-based, web-based, Citrix.

Central Patient Database and HIS Interface

Server - SQL unlimited - HL7 - web-based - HIS - DICOM - GDT



One central patient database, so many advantages:

One-time patient data entry saves time

Several measurements from different devices on one single report

Measure **spirometry one time only** and use it for further measurements like SB Diffusion or CPET

Avoid duplication of effort – changes or creation of new reports, layouts, predicted sets are globally deployed

Automatic backup secures important patient data

Connect your cardiopulmonary lab with your HIS using SentryConnect

The powerful interoperability solution. Create your individual solution.

Our **experienced IT specialists** are there for you every step of the way.

Easily **retrieve patient data from your HIS and send back** the measurement results

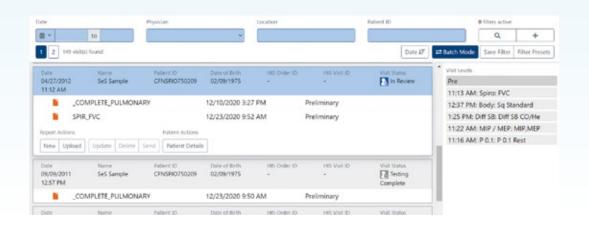
HL7 messaging with discrete data and **pdf** graphics providing full visual reporting to clinicians

Use **orders with worklists**

Modules for advanced tasks like billing

GDT interface for praxis systems

Save time with the workflow driven physician's review tool



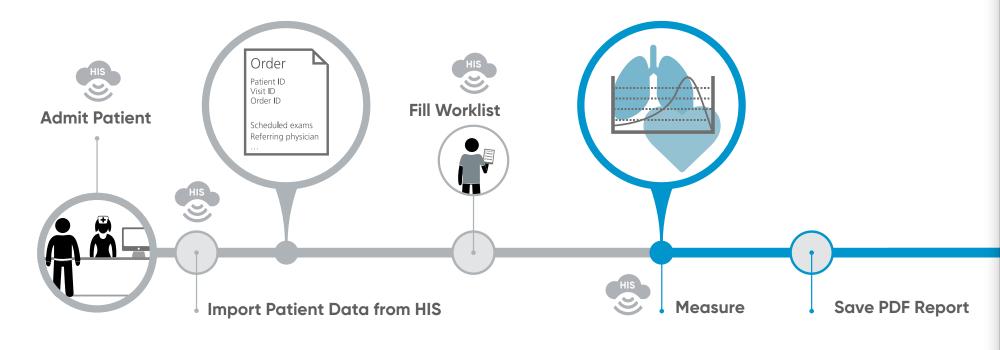
With SentrySuite, technician and physician work hand in hand

The technician performs the measurement and saves the proper report.

The physician sees all visits with their associated reports for interpretation.

Flexible workflow status design allows for optional steps such as a preliminary interpretation by a fellow, with subsequent confirmation or revision by the attending physician.

Apply filters to create individual work lists.





Review Tool

A standard with SentrySuite

- Ultra-fast report view with results on the left and interpretation on the right
- Customized interpretation templates and macros
- Electronic signature
- Automated Send-To-HIS functionality
- Status management
- Also available as web-based solution named SentrySuite Mobile Review

Artificial Intelligence meets PFT interpretation

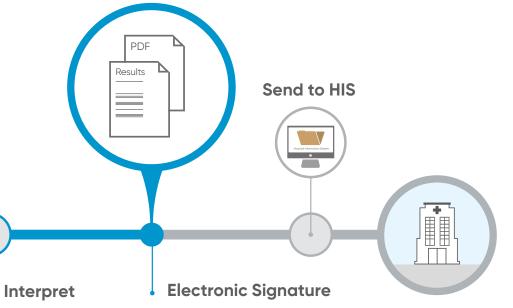
Seamless workflow integration

ArtiQ.**PFT** fully automates the interpretation of pulmonary function tests. Allowing pulmonologists to focus on clinical decision making and patient consultation.

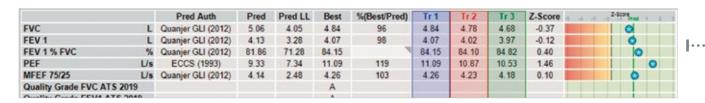
- spend your time wisley
- boost consistency
- maximize your diagnostic accuracy
- define your next steps





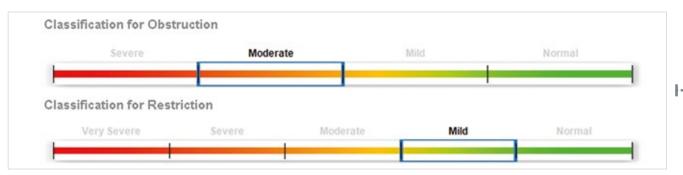


Tools go hand in hand with the workflow



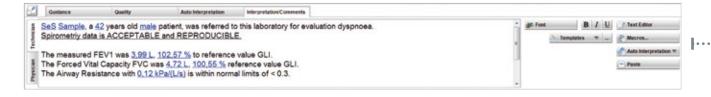
Scoring

SentrySuite offers all important parameter related scores; %Predicted, Lower Limit, Upper Limit, Z-Score, Standard Deviation



Classification

Each measurement program shows a classification bar indicating the possible limitation



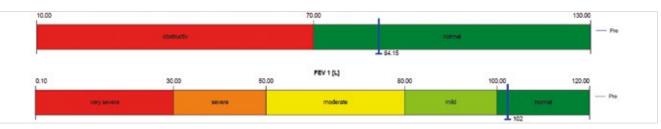
Interpretation Templates

Create your own templates with macros



Automatic Interpretation

Several authors come standard: Ellis, Jaeger (1994), ATS/ERS 2005, Intermountain Thoracic Society (1984), Methodist Hospital (1994), IOS, CPET Eschenbacher/ Mannina (1990), Fukuda Sangyo



Individual Bar Graphs

Create your own interpretation bar with the flexible Report Designer

Trending-monitor patient results over time

| Measuremei | nt | 717 | Spiro | | |
|----------------|----------|------------|-------|------|-------|
| Parameter | | | FVC | FEV1 | MMEF |
| Date | Time | Medication | (L) | (L) | (L/s) |
| 21.07.2010 | 16:26:28 | | 4.85 | 4.07 | 3.81 |
| 21.07.2010 | 16:32:53 | Salbutamol | 4.87 | 4.05 | 3.70 |
| 25.01.2011 | 13:22:44 | | 4.84 | 4.07 | 3.99 |
| 09.09.2011 | 12:57:24 | | 4.72 | 4.02 | 4.26 |
| 27.04.2012 | 11:12:17 | | 4.79 | 4.03 | 4.19 |
| 13.04.2013 | 10:55:39 | | 4.57 | 3.73 | 3.64 |
| Mean value | | | 4.77 | 3.99 | 3.93 |
| Standard dev | 1. | | 0.10 | 0.12 | 0.23 |
| Var. coeff. [% | 3 | | 2.13 | 2.94 | 5.96 |





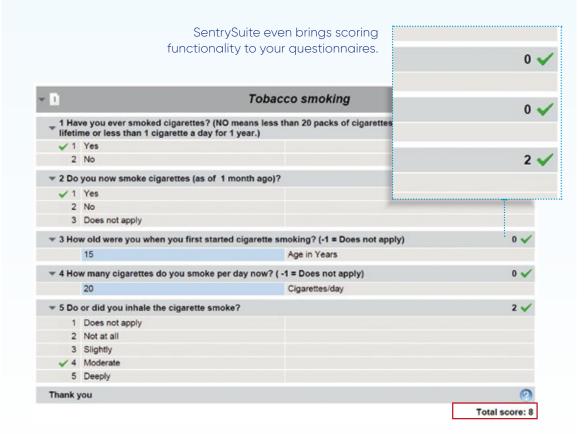
Trending reports are standard in SentrySuite. Show your long term data with one click for any parameter.

Questionnaires

Digitally integrated into SentrySuitepaperless and mobile solutions

Collect patient answers electronically and integrate them seamlessly into the SentrySuite database. The completed questionnaires are saved into the patient's database and can become part of your report.

Choose from our standard questionnaires or create your own with the optional Questionnaire Designer with six different question types.



Vyntus® QUESTIONNAIRE App

Go mobile with tablet or phone



- Mobile multi-platform-IOS or Android
- Multilingual and intuitive menu navigation
- Secure communication
- · Integration of patient image









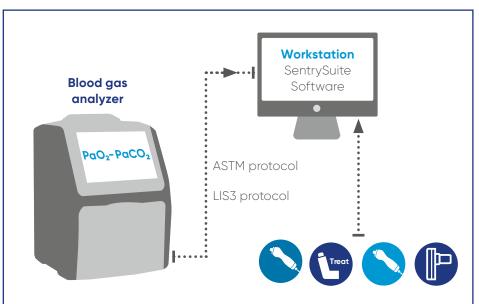
Blood gas online connection

Connect your blood gas analyzer with SentrySuite

- Automate import and storing of blood gas measurements into the SentrySuite patient data record
- PFT / CPET and blood gas results on one report ready for interpretation
- Supports many types of blood gas analyzers

Respiratory data transfer

Connect your Fenom Pro (R) and stand alone Vyaire spirometry devices with SentrySuite.



Offline data input

Offline data input – a standard in SentrySuite

Extend and feed your SentrySuite database with further external measurements like exhaled NO, lactate values and blood gases.



| | | Pred | Best | %(B/P) | 1 | 2 | 3 | -3 -2 | -Z-Score | 2 3 |
|----------------|-----|-------|----------|--------|-------|-------|-------|-------|----------|-----|
| Spirometry | | | | | | | | | | |
| FVC | L | 4.69 | 4.57 | 97 | 4.57 | 4.31 | 4.46 | | | |
| FEV 1 | L | 3.89 | 3.73 | 96 | 3.73 | 3.54 | 3.71 | | | |
| FEV 1 % VC MAX | % | 80.37 | 81.67 | 102 | 81.67 | 77.38 | 81.17 | | | |
| Exhaled NO | | | | | | | | | | |
| NO I | opb | | 23 | | | | | | | |
| Level date | | | 13.04.13 | | | | | | | |
| Level time | | | 10:55 | | | | | | | |

Example of a spirometry report showing also an offline typed in Nitric Oxide measurement



Clinical research

Sentry CIS DataCube

Access your lung function data for clinical research and statistics using the **Sentry CIS DataCube**

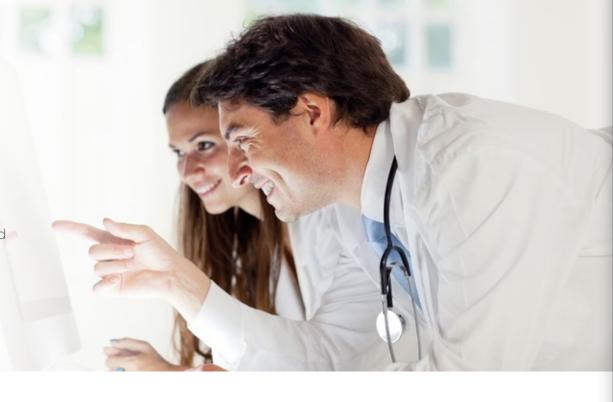
Define and deploy tailored research databases, based on SentrySuite patient demographics and visit data, standard questionnaires, predicted information and measurement parameters.

Easy Query Builder user interface

- Direct output into Microsoft Excel or others
- Profit from various table configurations
- Customize, save and load your queries

SentrySuite provides access to your patient data for clinical research.

From SentrySuite Query Builder to Excel Outcome





| 1 | A | В | C | D | E | F | G | Н | 1 | GT | HC | HI | JK | JN | LA | LD | U | LY |
|----|------------|---------------|--------|-----------|------------|-----|--------|--------|-----------|---------|-------|-------------|-------|--------|--------|--------|--------|------------|
| 1 | Visit Date | Patient ID | Gender | Race | Test Date | Age | Height | Weight | LevelType | FEV 0.5 | FEV 1 | FEV 1 % FVC | FVC | FVC in | MEF 25 | MEF 50 | MEF 75 | MFEF 75/25 |
| 4 | 27.11.2014 | GAB10031963 | male | Caucasian | 27.11.2014 | 51 | 1,74 | 90 | 1 | 3,492 | 4,255 | 83,613 | 5,089 | 5,484 | 1,137 | 4,788 | 11,253 | 4,643 |
| 5 | 13.04.2013 | CFNSPJO750209 | male | Caucasian | 13.04.2013 | 38 | 1,74 | 80 | 1 | 3,129 | 3,986 | 84,485 | 4,718 | 4,691 | 1,974 | 4,819 | 8,318 | 4,179 |
| 6 | 27.04.2012 | CFNSPJO750209 | male | Caucasian | 27.04.2012 | 37 | 1,74 | 80 | 1 | 3,24 | 4,139 | 84,014 | 4,965 | 5,002 | 1,868 | 4,898 | 9,183 | 4,188 |
| 7 | 09.09.2011 | CFNSPJO750209 | male | Caucasian | 12.09.2011 | 36 | 1,74 | 80 | 1 | 3,145 | 4,024 | 85,226 | 4,721 | 4,766 | 2,015 | 4,785 | 8,101 | 4,339 |
| 8 | 25.01.2011 | CFNSPJO750209 | male | Caucasian | 25.01.2011 | 36 | 1,74 | 80 | 5 | 2,984 | 3,779 | 91,57 | 4,127 | 3,408 | 2,506 | 5,183 | 7,748 | 4,733 |
| 9 | 25.01.2011 | CFNSPJO750209 | male | Caucasian | 25.01.2011 | 36 | 1,74 | 80 | 5 | 3,022 | 3,873 | 91,855 | 4,216 | 3,622 | 2,642 | 5,196 | 7,761 | 4,748 |
| 10 | 25.01.2011 | CFNSPJO750209 | male | Caucasian | 25.01.2011 | 36 | 1,74 | 80 | 5 | 1,424 | 1,848 | 91,439 | 2,021 | 1,399 | 1,2 | 2,424 | 3,628 | 2,276 |
| 11 | 25.01.2011 | CFNSPJO750209 | male | Caucasian | 25.01.2011 | 36 | 1,74 | 80 | 6 | 3,041 | 3,911 | 82,642 | 4,732 | 4,485 | 1,74 | 4,502 | 7,489 | 3,997 |
| | 25.01.2011 | CFNSPJO750209 | male | | 25.01.2011 | | 1,74 | 80 | 5 | 2,752 | 3,378 | 91,721 | 3,683 | 2,956 | 2,252 | 4,986 | 7,813 | 4,558 |
| | | | | | | | | | | | | | | | | | | |



SentrySuite (Cyber-)security

SentrySuite software protects you against cybersecurity threats by implementing a whole set of technical safeguards.

Data security and access control are the keys to protecting health information. SentrySuite offers several security features and comprehensive user administration.

Three steps to secure your patient data:



1. AUTHENTICATION

SentrySuite offers comprehensive settings for your password protection including the use of Single Sign On and Active Directory linking through LDAP.





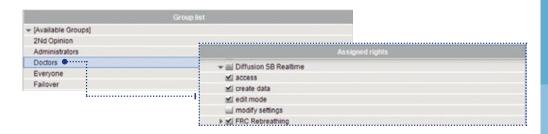
User

n Dr. Smith



2. AUTHORIZATION

The SentrySuite program User
Administration allows easy to create
user and user groups with their
assigned rights. Make sure that only
authorized users have access to the
different sub programs.





3. AUDIT

The program **Log File Viewer** reports all proceeded steps within the SentrySuite Software with their appropriate user.

| Date Time | User name | Workstation ID | Site | Event ID | Event text | Application |
|----------------------------|-----------|----------------|------|----------|---|---------------------|
| 2017-02-14 10 59 26 ,070 | Dr. Smith | LWDEU073XL56R1 | 1/3 | 4021 | Startup program | Ecdyplethysmography |
| J 2017-02-14 10:59:25 ,250 | n/a | LWDEU073XL56R1 | n/a | 4013 | Dr. Smith | Session Manager |
| V 2017-02-14 10:59:24 ,090 | Dr. Smith | LWDEU073XL56R1 | nia | 4021 | Exit program | Spirometry |
| V 2017-02-14 10:20:25 ,880 | Dr. Smith | LWDEU073XL56R1 | n/a | 4021 | Startup program | Spirometry |
| J 2017-02-14 10:20:25 ,150 | n/a | LWDEU073XL56R1 | n/a | 4013 | Dr. Smith | Session Manager |
| V 2017-02-14 10:20:23 ,000 | n/a | LWDEU073XL56R1 | n/a | 4021 | Starting Application 'Spirometry' | Sentry Desktop |
| V 2017-02-14 10:20:14 .030 | n/a | LWDEU073XL56R1 | n/a | 1000 | Run Automatic: Completed Task 'Start up database' | SentryDesktop |



GLOBAL HEADQUARTERS

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USA





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ARTIQ.PFT

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3010 Kessel-Lo
Belgium



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