

DOES YOUR ART DESERVE A MONITORING SYSTEM  
WATCHING EVERY INDIVIDUAL OBJECT DAY AND NIGHT?



**A**re you concerned that some works of art have less supervision than they deserve? Or does it take more than a little effort to properly secure a temporary exhibition? Then please read on.

**N**owadays, more and more wireless systems are entering the security market. They offer easy installation and invisible security, but how can you be sure the system is operating properly? Do you know when batteries run low? And what happens when changes in the environment obstruct communications, how can you even find out? All these issues are addressed by using GuArtNet.

**G**uArtNet offers the latest technology in the area of art security with a state-of-the-art self-organizing and self-healing network designed for military grade robustness. Autonomous intelligent sensor nodes with active health-monitoring and alive messages with status information will ensure you are fully informed of any potential issue before it becomes acute. Using a proven sensor which is in widespread use ensures optimal detection of any disturbance to your art.

## Features

**G**uArtNet does more than just replace your existing security system. GuArtNet allows you to:

- **Invisibly secure individual** art objects 24 hours a day, 7 days per week
- **Configure sensors remotely** thanks to unique bidirectional communication
- Remain **continuously informed** about the status of any art object in your gallery.
- Be **immediately notified** of any disturbance.
- Get a complete and robust security system up and running **within one hour**
- Reduce maintenance thanks to a battery lifetime of **up to 5 years**
- Secure your art for a **competitive price**

MEET TRUE  
WIRELESS  
SECURITY  
WITH GUARTNET

**A**nd much more. To learn more about the possibilities of GuArtNet, please do not hesitate to contact SOWNet Technologies by phone (+31(0)152600446) or visit our website [www.sownet.nl](http://www.sownet.nl)

# Building blocks

## THE GUARTNET NETWORK CONSISTS OF THE FOLLOWING BUILDING BLOCKS:



### GuartNode (sensor unit)

The GuartNode sensor units are fixed to each individual (art) object and generate an alarm when the object is touched or being moved. Their low weight and small form factor allow easy non-intrusive installation



### GuartRepeater

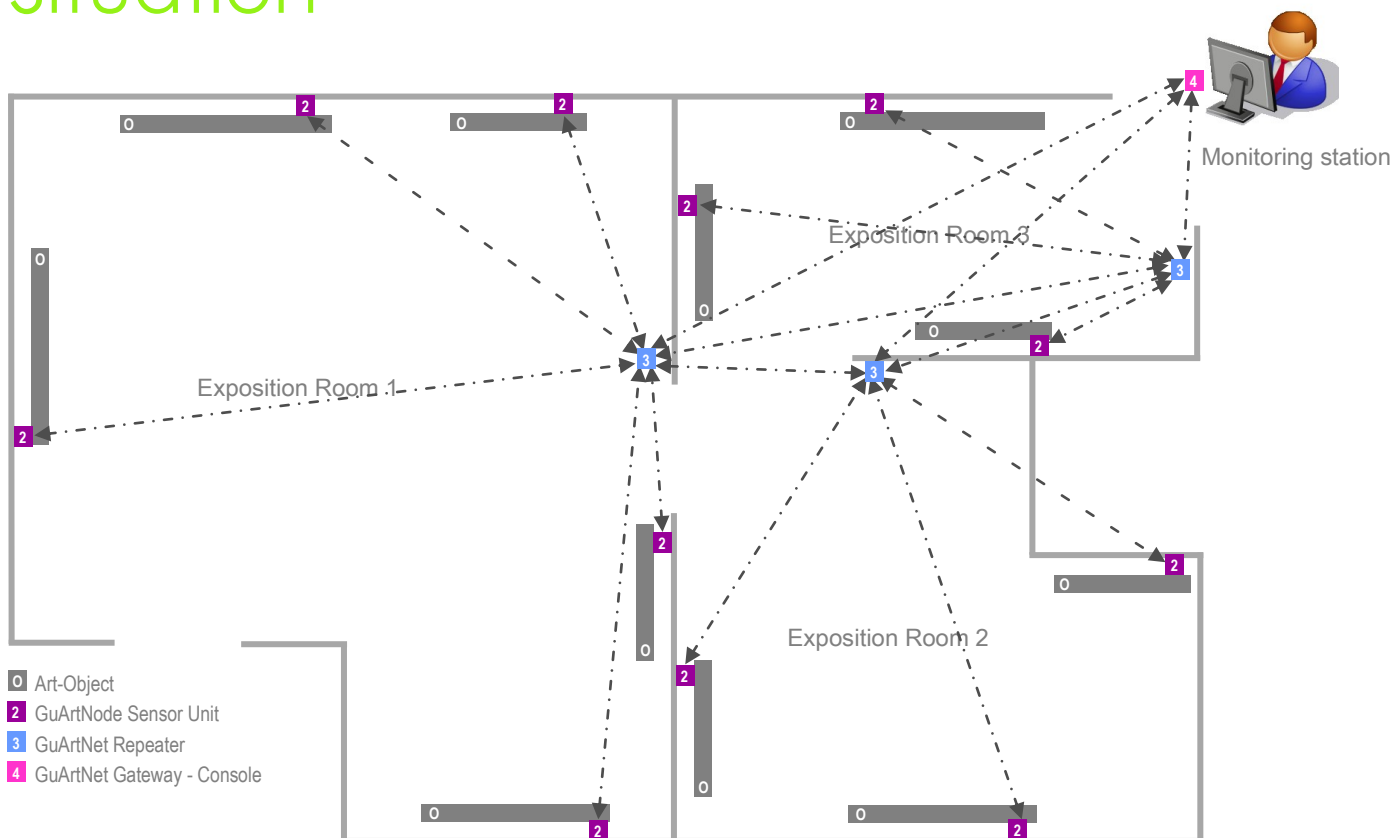
The GuartRepeater takes care of the communication between the sensor units and the GuartServer. Long distances can be bridged using a network of self-organizing GuartRepeaters.



### GuartServer

The GuartServer collects all data from the network, processes it and displays it on a screen. The GuartServer runs a dedicated application allowing the user to manage and configure the GuArtNet network.

## Situation



# Operator interface: overview

**Alarms** Log out   
**Operator**

Node ID	Description	Alarm type	Date	Time	Alarm ID
11	Victory Boogie Woogie	Heartbeat missing	28-11-2008	11:34:41	0
11	Victory Boogie Woogie	GuArtNode sensor	28-11-2008	11:33:40	1
10	Repeater modern art room	Radio jammed	28-11-2008	11:33:40	2
10	Repeater modern art room	Mains power failure	28-11-2008	11:18:39	3
12	Broadway Boogie Woogie	GuArtNode sensor	28-11-2008	11:18:38	4
11	Victory Boogie Woogie	GuArtNode sensor	23-11-2008	03:38:52	5
12	Broadway Boogie Woogie	GuArtNode sensor	23-11-2008	03:38:05	6
12	Broadway Boogie Woogie	GuArtNode sensor	04-11-2008	23:32:12	8
11	Victory Boogie Woogie	GuArtNode sensor	04-11-2008	23:32:05	7
10	Repeater modern art room	Sequence-number error	30-09-2008	16:45:32	9
10	Repeater modern art room	Repeater tamper	30-09-2008	16:45:27	10
11	Victory Boogie Woogie	GuArtNode sensor	19-09-2008	02:58:52	11
12	Broadway Boogie Woogie	GuArtNode sensor	19-09-2008	02:58:47	12
11	Victory Boogie Woogie	GuArtNode sensor	07-09-2008	13:12:12	13
12	Broadway Boogie Woogie	GuArtNode sensor	07-09-2008	13:12:07	14

Reset  Accept

# Administrator interface: settings

**Settings** Log out   
**Administrator**


**Set gateway site code**  
Console site code:  Gateway site code:  Set


**Change passwords**  
User:  New password:  Confirmation:  Update


**Change settings**  
Buzzer (s):  Led (s):  Heartbeat interval (s):   
Start delay (s):  Restore delay (s):  Update

**Management system connector setup**  
Connector type:  Connector port:  not connected Update

# Technical specifications

 <b>GuartNode Sensor Unit</b>	
<b>Key Features</b>	
Remotely configurable:	- Audible alarm time or buzzer off - Visual alarm time or LED off - Heartbeat interval (alive signals) - Sensor activation delay on power-up - Sensor restore notification delay
Range:	30 to 70 m Indoor use*, over 100m in free space
Sensor:	- Internal disturbance sensor with sensitivity setting - Contact for external trigger switch
Interfaces:	- Buzzer for audible alarm and power-up feedback - LED for visible alarm - Button for secure site join and leave - Radio interface
<b>Technical Specifications</b>	
<u>Physical</u>	
Housing:	ABS
Colour:	Black
Dimensions:	80 x 50 x 15 mm (wxhxd)
Weight (packed):	36 g
Environment:	Temp. -10° to 50°C Rel. Hum. 10% to 90% - non condensing
Antenna:	Internal
<u>Electrical</u>	
Input Voltage:	1.8 - 3.6 V DC
Battery:	2 x AAA
Battery life time:	5 Years using typical settings 4 µA (Idle)
Supply current:	35 mA (Active)

 <b>GuartServer</b>	
<b>Key Features</b>	
Range:	30 to 70 m. Indoor use*, over 100m in free space
Interfaces:	- LEDs indicating Power, RX and TX - Radio interface
Connectivity:	- 2 x USB (1 use for Gateway) - 1 x Serial (RS-232) - 2 x 10/100 Ethernet - 2 x PS2 Port Mouse and Keyboard - 1 x VGA - 1 x Audio OUT 3,5 mm - 1 x Microphone IN 3,5 mm.
Storage:	- hard disk or solid state disk - storage space for 20 years alarm retention - backup and restore functionality
<b>Technical Specifications</b>	
<u>Physical</u>	
Housing:	Aluminium
Colour:	Black/Aluminium
Dimensions:	170 x 123 x 56mm (w x h x d)
Weight (packed):	1072 g
Environment:	Temp. -10° to 40°C Rel. Hum. 10% to 90% - non condensing
Antenna:	External
<u>Electrical</u>	
Input voltage:	5V/4A, 230V/50 Hz. Adapter included
Approvals:	CE FCC

 <b>GuartRepeater</b>	
<b>Key Features</b>	
Remotely configurable:	Heartbeat interval (alive signals)
Range:	30 to 70 m Indoor use*, over 100m in free space
Sensor:	Tamper switch
Interfaces:	- Buzzer for power-up feedback - LED for local power status indication - On/off button internally (accessible without tools) - Radio interface
<b>Technical Specifications</b>	
<u>Physical</u>	
Housing:	ABS
Colour:	White
Dimensions:	130 x 190 x 43 mm (w x h x d)
Weight (packed):	390 g
Environment:	Temp. -10° to 50°C Rel. Hum. 10% to 90% - non condensing
Antenna:	Internal
<u>Electrical</u>	
Input Voltage:	230V/50 Hz or 12 - 24 V DC
Battery:	2 x AA NiMH 1,2 V - Rechargeable
Battery life time:	36 Hours
Supply current:	20 mA @ 12V (Idle) 35 mA @ 12V (Active) 400 mA @ 12V (charging battery)

<b>GuArtNet Software application (GUI)</b>	
<b>Key Features</b>	
Number of Sensor units:	> 1.000
Number of Repeaters:	> 100
Number of Gateways:	1. For multiple Gateway support please contact SOWNet
Languages of software and manuals:	- English - German - Dutch
Interface to:	- HI SEC SMS - SQL for database logging - For others, please contact SOWNet
Authorisation levels:	- Engineer - Administrator - Operator
Maximum number of users logged in:	1
Reporting:	- Please contact SOWNet
<b>Operational</b>	
Pre-installed software platform:	Linux operating system MySQL database GuArtNet application

## SOWNet Technologies BV

Delftechpark 26  
2628 XH Delft  
The Netherlands  
Tel. : +31(0)152600446  
Fax : +31(0)152600405  
Email: info@sownet.nl  
Web: www.sownet.nl