

warning **PUBLIC**

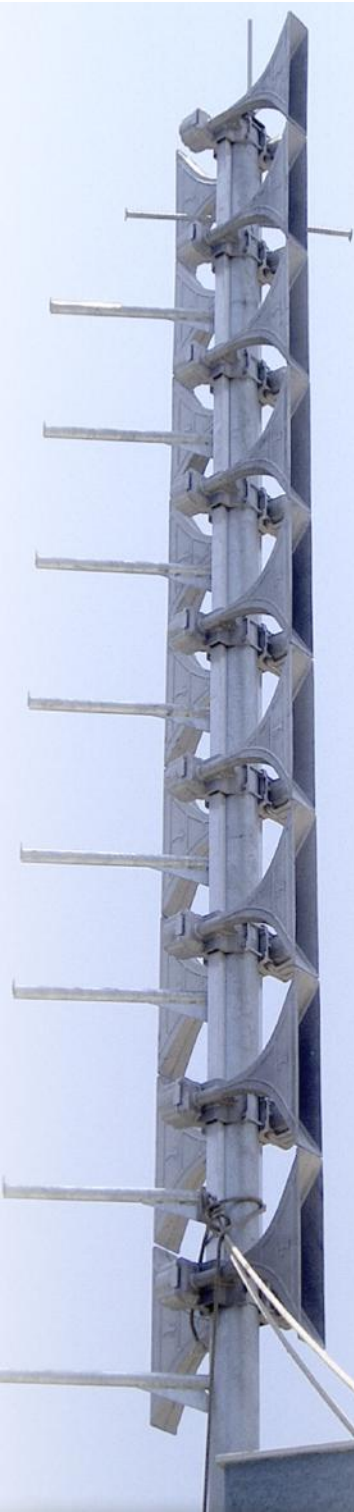


SiCAS

SiRcom

# SiRcom

GESELLSCHAFT FÜR SYSTEMINTEGRATION  
& KOMMUNICATIONSTECHNIK mbH



# The Company

## Experience the difference

**SiRcom** is a system house for Public - Warning - and Information-Systems founded in 1993 by a team of experts with many years of knowledge in acoustics and warning technologies.

Since the beginning our founder Norbert Hunger has taken over business as CEO and established an International and successfully operating company.

**SiRcom's** activities worldwide are coordinated from the Headquarter in Forstinning near Munich.

**The SiRcom** team has many years of experience not only in the development of new products but also in the handling of complete turn-key warning and communication systems around the world.

## Culture & Philosophy



Over the years our leaders have combined **SiRcom's** culture and knowledge into what it is today - a company which brings new ideas to life.

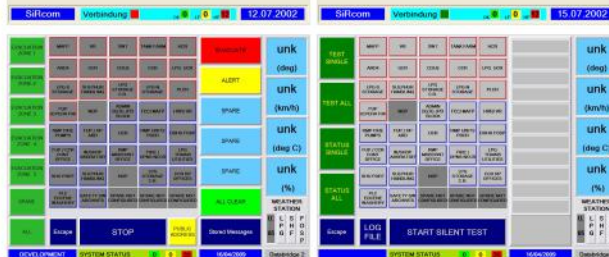
The combination of long-time experience in advanced acoustical solutions, communication technologies, warning system designs and tailor-made complete systems is our unique competitive strength as well as your chance to a successful business.

„It is **SiRcom's** declared aim to offer a perfect economical and competitive solution for any requirement and complexity“



# Customized GUI's **overthe**YEARS

# SiCAS



# customized solution

## SOFTWARE-Performance

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The Control and Management Software **SiCAS** is designed to allow one or several user(s) on remote control by the highest possible security for any siren-function within any communication structure.

It is our absolute priority to secure high flexibility without risking failures and any malfunction.

At any time the alarm-activation has highest priority. Showing the operator the system-performance as well any technical status of each siren within a System.

The **SiCAS-SW** can be used as a single application as well as multi-centre-architecture with a priority- hierarchy.

Monitoring the siren-functionality is a permanent task. Reporting to the control centre can be done automatically or on request.

**SiRcom** offers to customize the Control-Application as well, the Screen-Designs as per customer needs.

The MAIN-Features of **SiCAS** are:

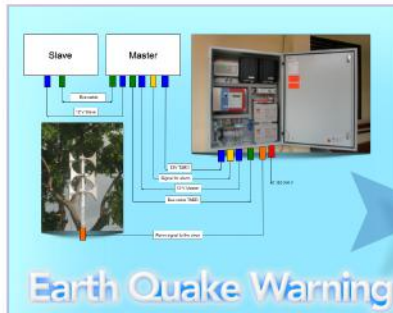
- Touch Screen / Panel-PC - Operation
- Secure Access Control by:
  - USB-Stick or Chip-Card with controlled Access Data and Pass-Word
- Log-File documentation of any activity
- MAP-GUI sirens on geographical maps with active functional indication.
- Customized screens of any functional button
- Customized language (control by USB-Stick)
- Customized functional features
- Remote VPN-System-Support
- Operating-Systems available, Windows / Apple OSX, iOS / Linux / Unix
- Apple iPad- & iPhone,- Android - Control

**SiRcom** offers Interface to any existing communication means via IP



# customized solution

## TAILORED Communication & Control System



# SiCAS



Audio Interface  
Live PA.

Industrial PC  
with Windows Vista32  
optional,  
-Linux  
-MAC-OS

Customized  
SiCAS / Siren GUI  
and System  
Management

UPS / Power Supply  
with Batterie Backup

MTU-Radio-  
Terminal with  
Motorola GM340

Management  
User Acces  
Control

Two-Way  
Radio  
VHF /UHF

Command&Control

# SiCAS

## KEY-Features of any SiRcom Systems

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### **Control /Management**

All the sirens can be controlled from one or many control stations, as individual, as group, and all together.

### **Selected Sirens**

Any number of sirens (units) can be activated at any given time from the control station (group-activation)

### **Auto Reporting**

After activation a feed back message will be received in the control station that the alarm has been activated and is running.

### **Status of Equipment**

Through the control station the status of all the functions/ performance of the equipment like mains, batteries, amplifiers, drivers etc in less than 60 seconds will be provided.

### **No False Alarm**

Through CONTROL DATA SECURITY(Dual-Command-Time-Control) SiRcom can guarantee that false alarm can never be triggered.

### **Power Supply**

through SOLAR PANELS. SiRcom-Sirens made with high efficient low consumption-design allows a supply and charging the batteries through off the shelf SOLAR PANELS.

### **Command & Communication**

Wireless communication through VHF,UHF, GSM/3G/4G, WiFi and Satellite.

Line based communication by telephone link, IP, RS485 or any other local infrastructure can be used.

### **Safety against Lightning & Thunder Storms**

As SiRcom siren head is made out of aluminum, our whole equipment is safely-covered (Faraday effect, siren-head has fully ground potential). Once the siren head is grounded properly any lightning-current runs direct into the earth/ ground.

### **Warning Signals & Messages**

Any number can be created. Any number of voice messages can be stored.

### **Minimum Maintenance Visits**

Maintenance visits are minimized by the remote status monitoring feature.

### **Bi-Directional Communication**

A bi-directional communication between control station and sirens gives the status of the communication and state of the equipment in real-time.

### **Siren Silent Testing**

The sirens are tested by using the normal output power with a high frequency where it generates no Sound Pressure Level but gives a real measuring value controlled from and to the control station.

# Activation Screen

SiCAS14

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MAINTENANCE

TEST

STATUS

LOG-FILE

SOLAR 1

SOLAR 2

✓ CHR\_ST1

Door	COMM	ACK	PS/G Volt	Amplifiers	Drivers	Date/Time	Solar 1	Solar 2
OPEN	OK	OK	12.34V	2/2 OK	BAD	19/03/2014 14:06:59	13.11V 0.58A 30°C	13.07V 0.43A 29°C

✓ CHR\_ST2

Door	COMM	ACK	PS/G Volt	Amplifiers	Drivers	Date/Time	Solar panel 1	Solar panel 2
OPEN	OK	OK	11.59V	2/2 OK	BAD	19/03/2014 14:06:59	7V 7A 7°C	7V 7A 7°C

✓ CHR\_ST3

Door	COMM	ACK	PS/G Volt	Amplifiers	Drivers	Date/Time	Solar panel 1	Solar panel 2
?	BAD	BAD	?	?	?	19/03/2014 14:11:11	7V 7A 7°C	7V 7A 7°C

ALARMS

EVACUATION

ALL CLEAR

EMERGENCY

EMERGENCY

EMERGENCY

EMERGENCY

EMERGENCY

VOICE MESSAGES

EVACUATION

ALL CLEAR

EMERGENCY

VOICE MSG 4

VOICE MSG 5

AS-OK

Execute Action

Progress SOLAR PANEL 2 STATUS

CANCEL



# SiCAS Operations

## Standard Functionality

Warning System Control Application Software **SiCAS**

The warning system control software can be considered to be in three parts:

1. The communication application in which control strings for activation and remote testing are routed to selected sirens for groups of sirens and additional warning device controllers. Status reports and autonomous alarms are sent from these controllers back to the control station. This communication protocol can be used with both landline and radio. This proposal is for landline only owing to the widely dispersed locations of the three pilot siren sites.
2. The Man Machine Interface (MMI). This part concerns the presentation and display on the PC that is used by the Operator and Service Engineers. A library of standard PC screens is available, including mouse and touch screen interfaces. Graphic displays with site maps showing the location and status of the warning devices. Combined screens that show the warning system control, siren status, MAP displays, weather and gas concentration data.

The activation screen always shows a window with system status and siren availability. The Service screen shows the details of the Quiet Test results from each siren.

It is possible to restrict access to the various functions of the control system by the use of Passwords or by Smart Card Readers connected to the PC

It is proposed that the End User control screens (MMI) and access rights will be developed in cooperation with the Safety Department during the System Study and Design phase

(A SiCAS Technical Description on a CD Rom is available on request)



## Operation Alarm Activation

**SiCAS** allows activation of predefined alarm-sounds, stored messages or live announcements.

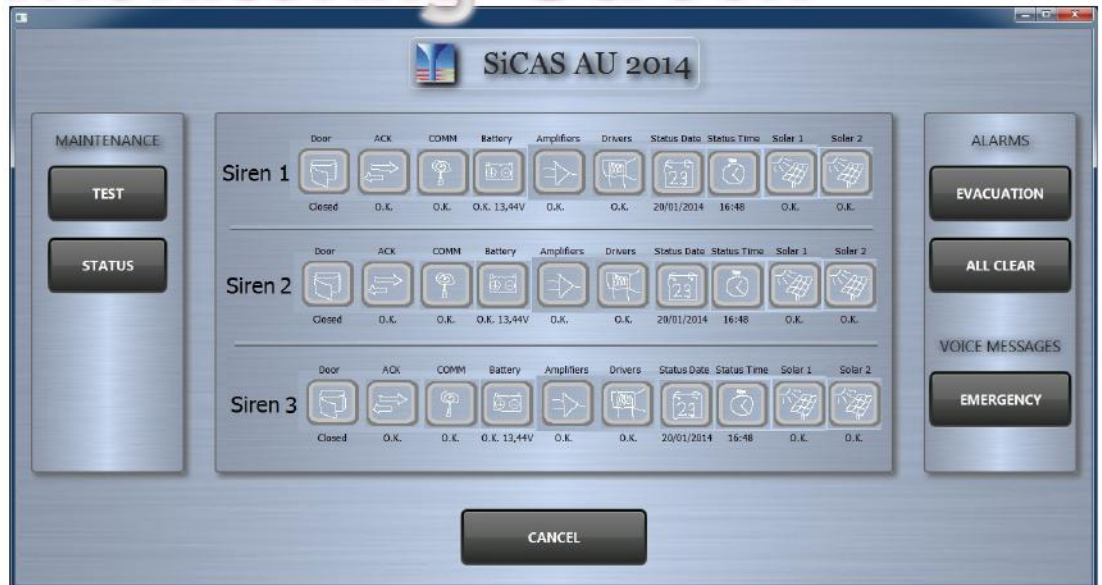
After choosing one of above Alarm-Types **SiCAS** allows to activate by **All ad Once** or predefined **Groups** or any **Single** Siren by choosing the relevant dress button.

A special feature is our **adHoc-grouping**, this means any single buttons can be chosen in any combination and will generate an alarm ad this group of sirens in the moment of releasing this unique activation.

For security **SiCAS** will ask for activation confirmation after pushing the START-Button. This allows to verify the chosen alarm-type swell the sirens involved and gives the operator the change for modification.

Confirming the activation means a data-package is send to all or relevant sirens and within milli-seconds the sirens will sound.

# Monitoring Screen



# SiCAS Operations

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## operating STATUS

- select any siren- or total-button
- click on the STATUS button  
*immediately a STATUS-request is send to the sirens involved*
- wait until the progress bar reaches the end for all three commands
- for each selected siren the status-data appears updates the STATUS-Window

Door	COMM	ACK	Svstem Volt.	Amplifiers	Drivers	Date/Time	Solar 1	Solar 2
								
OPEN	OK	OK	12.34V	2/2 OK	6/6 OK	19.03.2014 14:10:27	13.12V 0.54A 29°C	13.07V 0.41A 29°C

## operating TEST

- select any siren- or total-button
- click on the TEST button  
*immediately a TEST-request is send to the sirens involved*
- wait until the progress bar reaches the end for all three commands
- for each selected siren the status-data appears updates the STATUS-Window

## operation Monitoring

**SiCAS** has the features to request an technical **status** of any siren in a system or to trigger a functional **test** in order to get the actual status of the complete functionality of any siren.

**SiCAS** allows to start above function for all sirens ad once or for any individual siren if required.

A STATUS-request will feedback the last test-result from the siren memory.

A TEST-request will start the test-procedure ad each siren involved ad the same moment and feedback the actual live status.



# Logfile

SiCAS14

MAINTENANCE

TEST

STATUS

LOG FILE

SOLAR 1

SOLAR 2

CHR ST1

ALARMS

EVACUATION

ALL CLEAR

EMERGENCY

EMERGENCY

EMERGENCY

EMERGENCY

VOICE MESSAGES

EVACUATION

ALL CLEAR

EMERGENCY

VOICE MSG 4

VOICE MSG 5

Close

CANCEL

2004-03-21 10:00:31 INFO: Received 24 bytes from 152.168.0.100  
2004-03-21 10:00:31 INFO: STATUS received SRHn\_ADDRESS=3 DOOR-OPEN=TRUE PSV-VOLTAGE=11.34V AMPS-OK=0 DRIVERS-OK=0  
2004-03-21 10:00:31 INFO: Received 12 bytes from 152.168.0.100  
2004-03-21 10:00:34 INFO: Received 13 bytes from 152.168.0.15  
2004-03-21 10:00:34 INFO: Received 24 bytes from 152.168.0.100  
2004-03-21 10:00:34 INFO: Received 24 bytes from 152.168.0.100  
2004-03-21 10:00:37 INFO: Received 13 bytes from 152.168.0.15  
2004-03-21 10:00:37 INFO: Received 24 bytes from 152.168.0.100  
2004-03-21 10:00:37 INFO: SOLAR-PANEL STATUS received SRHn\_ADDRESS=2 SOLAR-ADDRESS=2 BATTERY-VOLTAGE=14.89V CHARGING-CURRENT=1.07A TEMPERATURE=32C  
2004-03-21 10:00:37 INFO: Received 34 bytes from 152.168.0.100  
2004-03-21 10:00:37 INFO: SOLAR-PANEL STATUS received SRHn\_ADDRESS=3 SOLAR-ADDRESS=2 BATTERY-VOLTAGE=12.96V CHARGING-CURRENT=1.88A TEMPERATURE=47C  
2004-03-21 10:00:37 INFO: Button CLOSE LOGFILE was closed  
2004-03-21 10:00:38 INFO: Button TEST was clicked  
2004-03-21 10:00:38 INFO: TEST is NOT confirmed  
2004-03-21 10:00:40 INFO: Received 24 bytes from 152.168.0.100  
2004-03-21 10:00:40 INFO: STATUS received SRHn\_ADDRESS=3 DOOR-OPEN=UNKNOWN PSV-VOLTAGE=12.41V AMPS-OK=0 DRIVERS-OK=0  
2004-03-21 10:00:40 INFO: Received 24 bytes from 152.168.0.100  
2004-03-21 10:00:40 INFO: STATUS received SRHn\_ADDRESS=2 DOOR-OPEN=UNKNOWN PSV-VOLTAGE=11.74V AMPS-OK=2 DRIVERS-OK=0  
2004-03-21 10:00:43 INFO: Received 34 bytes from 152.168.0.100  
2004-03-21 10:00:43 INFO: Received 24 bytes from 152.168.0.100  
2004-03-21 10:00:46 INFO: Received 24 bytes from 152.168.0.100  
2004-03-21 10:00:46 INFO: SOLAR-PANEL STATUS received SRHn\_ADDRESS=2 SOLAR-ADDRESS=2 BATTERY-VOLTAGE=14.52V CHARGING-CURRENT=0.95A TEMPERATURE=32C  
2004-03-21 10:00:46 INFO: SOLAR-PANEL STATUS received SRHn\_ADDRESS=3 SOLAR-ADDRESS=2 BATTERY-VOLTAGE=13.08V CHARGING-CURRENT=1.88A TEMPERATURE=47C  
2004-03-21 10:00:46 INFO: Button CLOSE LOGFILE was closed  
2004-03-21 10:00:49 INFO: Button TEST was clicked  
2004-03-21 10:00:53 INFO: TEST is confirmed  
2004-03-21 10:00:53 INFO: Received 16 bytes from 152.168.0.100  
2004-03-21 10:00:53 INFO: Received 16 bytes from 152.168.0.100  
2004-03-21 10:00:53 INFO: Received 16 bytes from 152.168.0.100  
2004-03-21 10:00:53 INFO: Button CANCEL was clicked  
2004-03-21 10:00:55 INFO: CANCEL is confirmed  
2004-03-21 10:00:55 INFO: Received 16 bytes from 152.168.0.100  
2004-03-21 10:00:55 INFO: Received 16 bytes from 152.168.0.100

# SiCAS Operations

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## Log File

**SiCAS** stores ALL operational tasks in a Log File, this allows to recall any activities done in the Past.

If the SiCAS is operated with the **SiRcom** Aces-Management-Feature.

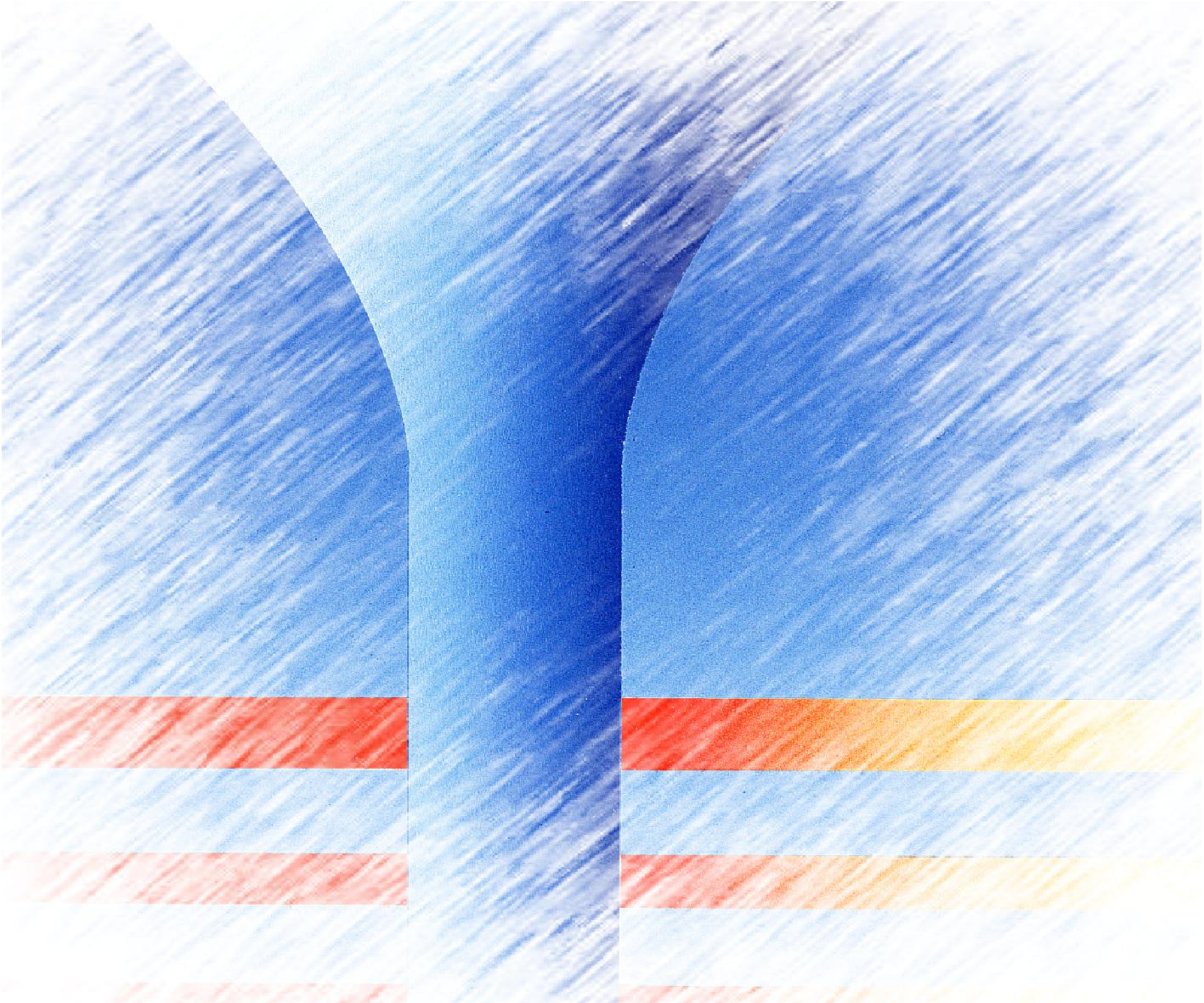
(either using a Chip-Card or USB-Stick)

The operator will be personalized, such allows to record SiCAS-Operation with the operators name in the Log File.

For security reason **SiRcom** offers to store the log-file automatically ad pre set schedules on a external network server.

This is to avoid local manipulations.







contact us:

# SiRcom

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## PUBLIC warning



# SiRcom

