



METAL DETECTOR
with APSIM2Plus Interface
Setup and Use

OVERVIEW

This manual contains all necessary information for a correct setup and use of the APSIM2/Plus web server and logger integrated in a CEIA Walk-Through Metal Detector.

Revisions

Code	Firmware Version	Date	Author	Reference	Changes
FI060K0060v1000 UK	XCV1010	2011-07-26	DTP-BC	-	First edition
FI060K0060v1100 UK	XCV1010	2011-07-29	DTP-BC	-	Time Zone selection

CEIA reserves the right to make changes, at any moment and without notice, to the models (including programming), their accessories and options, to the prices and conditions of sale

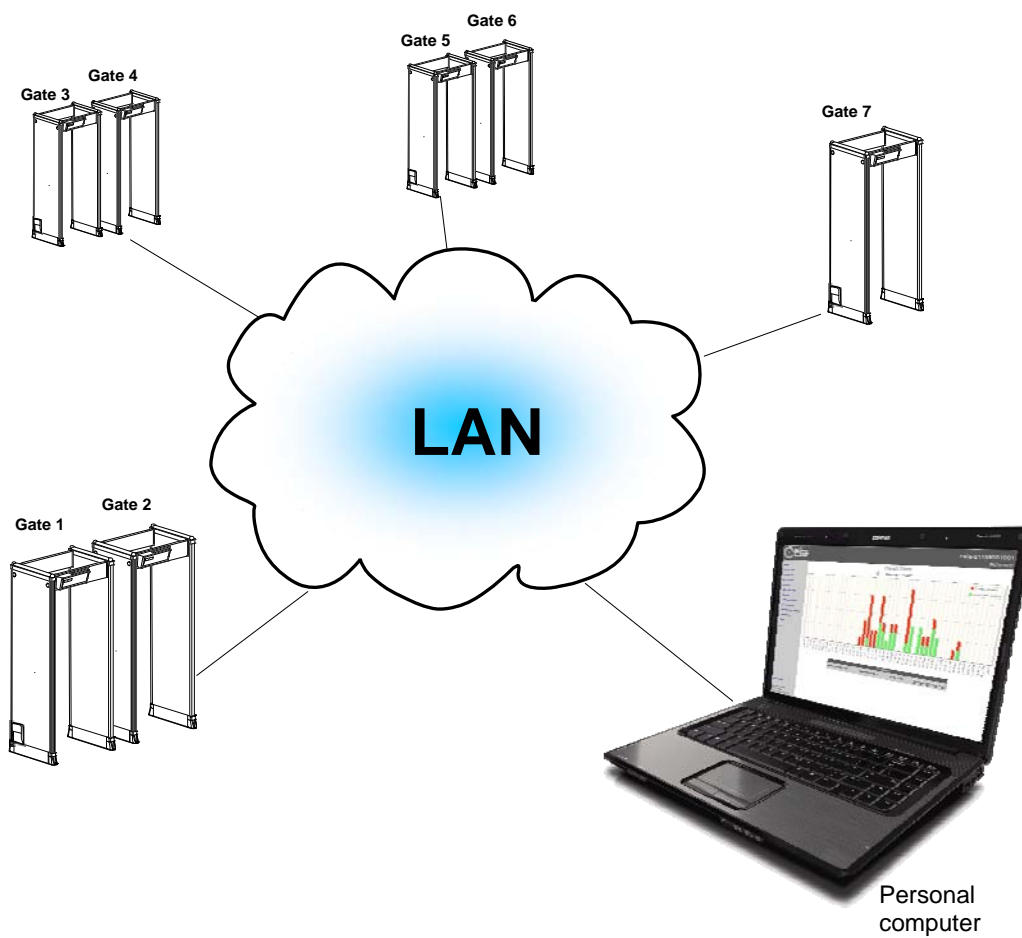
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1 SETUP

1.1 System Overview

The CEIA network basically consists of several CEIA units and one or more personal computers communicating each other via an Ethernet LAN.



1.2 Setup procedure of a network

This section describes the setup procedure of a network between CEIA Walk-Through Metal Detectors equipped with a web server and logger type APSIM2/Plus.

Procedure overview

The setup of the networked units consists of the following steps:

- Connection to the web server of a CEIA device
- Configuration of the web server of a CEIA device
 - Setting of date and time
 - Setting of the device name (no mandatory step)
 - Setting of the network data, if necessary
- Definition of the group(s) the CEIA devices belong to

Required tools:

- PC or Laptop
- Network Cable (Crossover or Straight type)
- Bonjour Service for Windows (strongly recommended)
- Internet Browser

1.2.1 Factory Setting of the Metal Detectors

The Ethernet module is pre-set in factory with the following data:

- Hostname: CEIA-<SN>, where <SN> is the serial number, indicated in the label present on the transmitter antenna of the archway . Example: "CEIA-21006012345".
- IP address, Gateway and Subnet Mask: DHCP (Dynamic Host Configuration Protocol) or static ID address 192.168.0.1 if DHCP is not available.

1.2.2 Connection to the web server

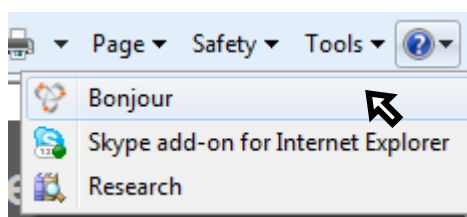
NOTE The easiest way to discover the CEIA device, independently of the net work IP setting (static IP or DHCP), is to use the Bonjour service that scans the LAN and provides a list of the units connected. This method is described below.

1.2.2.1 Connection to the web server using Bonjour Service

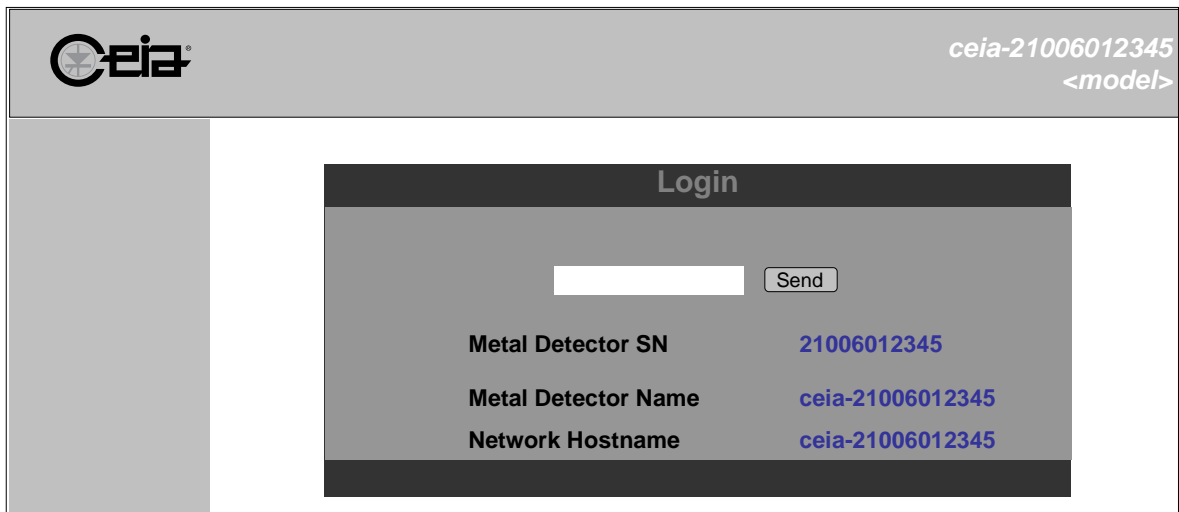
- Connect the laptop directly to the unit using the Ethernet cable.
- Install Bonjour Service for Windows in your laptop.

Note: If the package "[Bonjour Print Services for Windows](#)" is installed, uninstall it before to install this package.

- If you have Bonjour Service installed in your laptop, opening Internet Explorer or Safari, you will find the list of the devices in the left Panel.
- To have the list using Internet Explorer click here:



- To have the list using Apple Safari go to the Bonjour section of your bookmarks library.
- Double Click on the correct device and you will be redirected to its website: a login box appears.

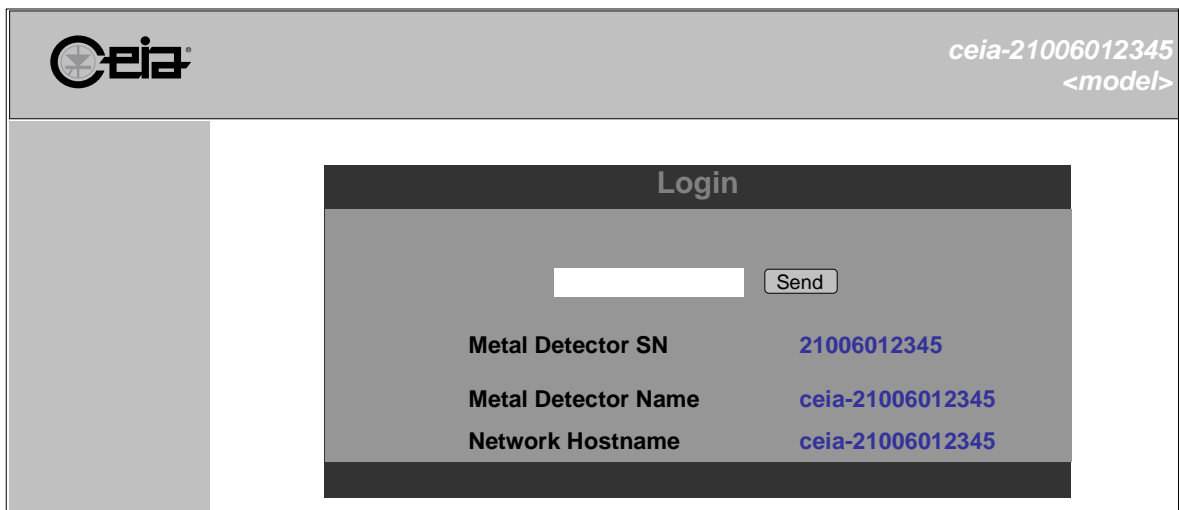


1.2.2.2 Connection to the web server using static IP

If the Bonjour protocol is not installed/working in your laptop, you can connect the Ethernet module using its default IP address: 192.168.0.1.

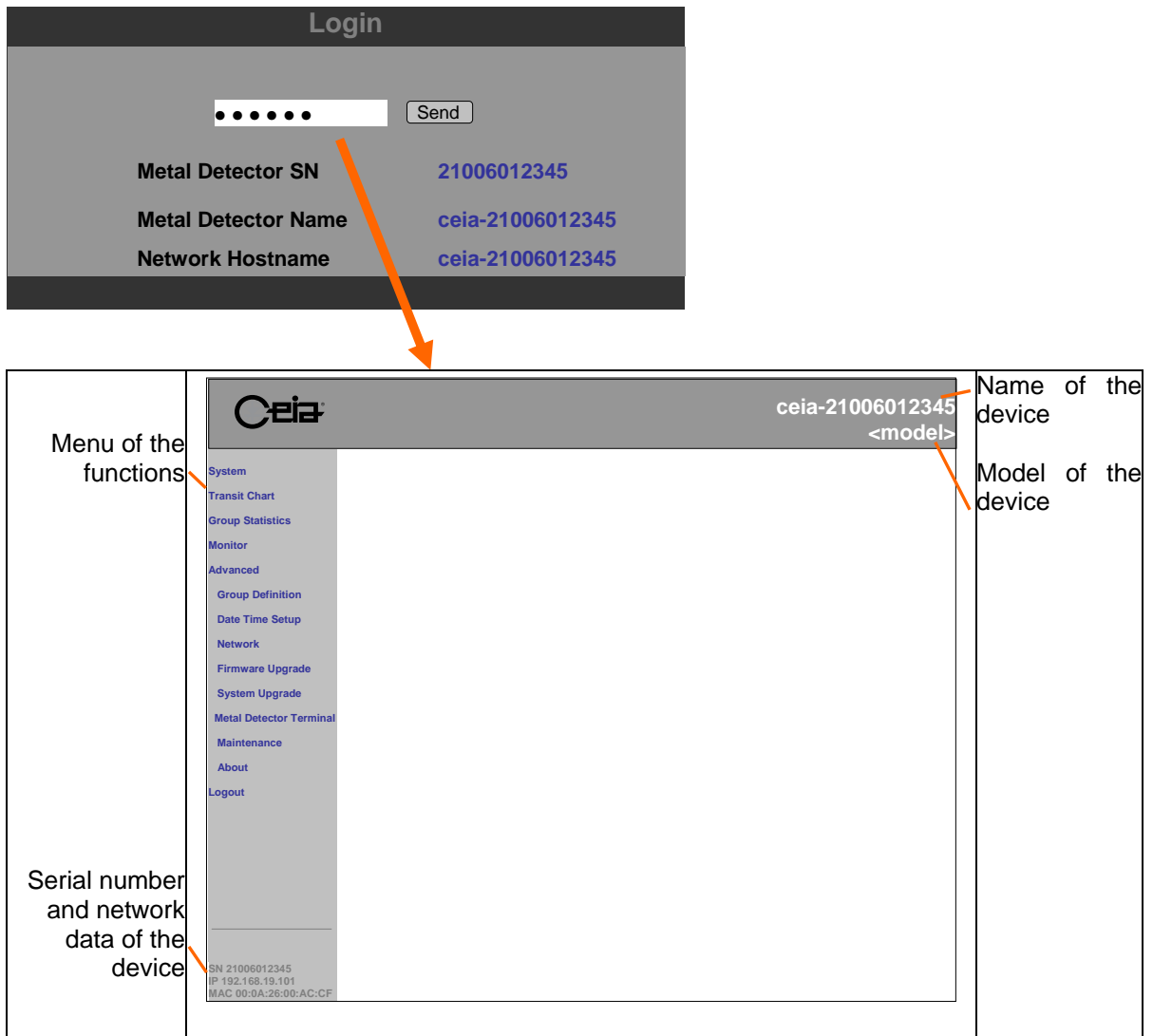
- Connect the laptop directly to the unit using the Ethernet cable.
- Set an IP address on the same subnet as the CEIA unit: IP address 192.168.0.xxx , where xxx > 1 and subnet mask 255.255.255.0.
- Open an Internet browser and type the default IP address: <http://192.168.0.1>: a login box appears.

A login box appears, reporting the Metal Detector name and the Network Hostname of the device.



1.2.2.3 Logging in the device

Type the Metal Detector **super user password** of the device and click “**Send**”: the main page of the web server should appear.



The image shows two screenshots of the Ceia web interface. The top screenshot is the 'Login' page, which has a password input field (represented by dots) and a 'Send' button. Below the input field, it displays the following information:

Metal Detector SN	21006012345
Metal Detector Name	ceia-21006012345
Network Hostname	ceia-21006012345

An orange arrow points from the 'Send' button to the main page shown in the bottom screenshot. The main page has a header with the Ceia logo and the text 'ceia-21006012345 <model>'. On the left is a 'Menu of the functions' with the following items: System, Transit Chart, Group Statistics, Monitor, Advanced, Group Definition, Date Time Setup, Network, Firmware Upgrade, System Upgrade, Metal Detector Terminal, Maintenance, About, and Logout. At the bottom left, it displays 'Serial number and network data of the device' with the following details:

SN	21006012345
IP	192.168.19.101
MAC	00:0A:2B:00:AC:CF

On the right side of the main page, there are two labels with arrows pointing to the header: 'Name of the device' pointing to 'ceia-21006012345' and 'Model of the device' pointing to '<model>'.

NOTE: In case of repeated error messages, stating that a wrong password has been entered, verify, in local programming, whether the baud rate setting of the device is 57600 (BR parameter).

1.2.3 Configuring The Device

1.2.3.1 Date and Time Setup

The first time the device is accessed entering the date and time is requested: the page **Date Time Setup** is automatically open.

Select your Time Zone or set the correct Date and Time: this can be done manually, using the setting of the computer or synchronizing with a time source, if available (enter its static IP or its Hostname, in DHCP mode only) .

Press **Save** to confirm.

Current Time Zone [Change](#)

Current System time : 2011-07-20 04:27:13

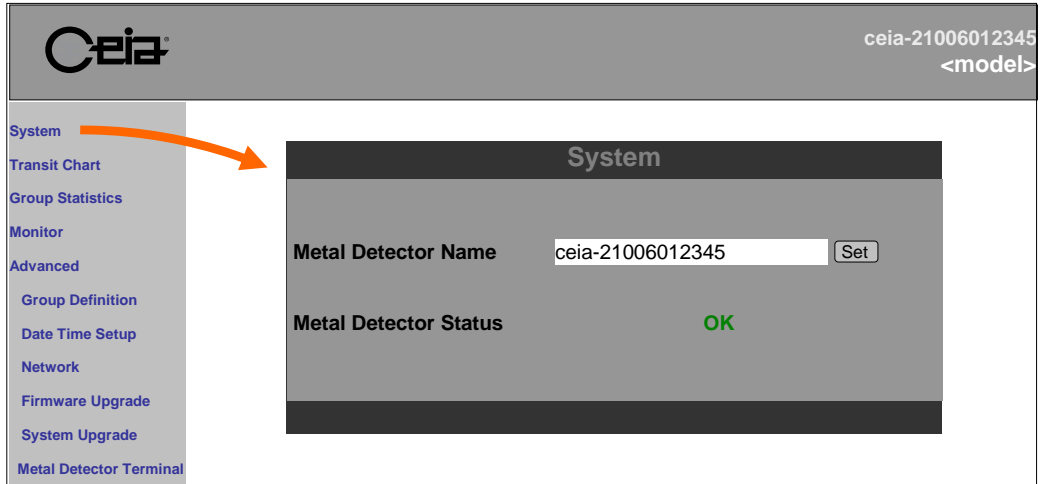
- ☐ Manually choose Date & Time Settings - - : :
- ☒ Get Date & Time from you computer 2011-07-20 18:07:21
- ☐ Synchronize with an NTP Time Source (IP or Host Name)

Save

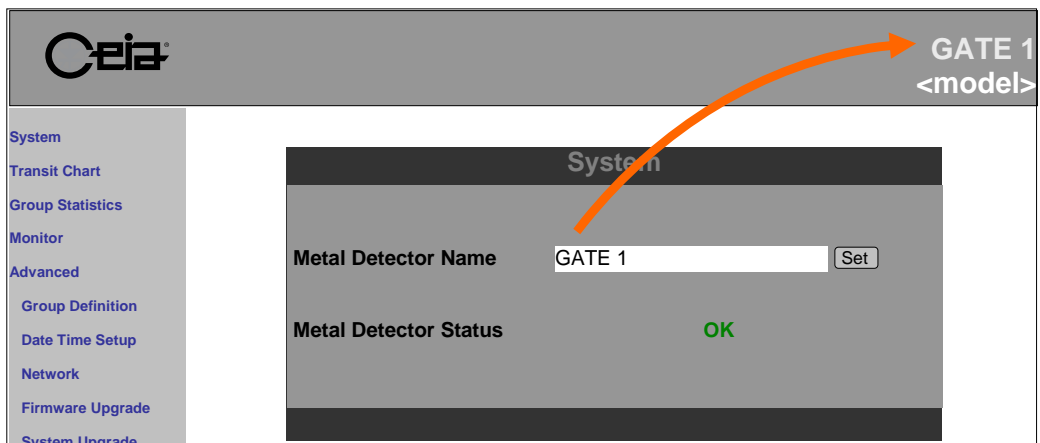
Cancel

1.2.3.2 Device Name Setup

If you prefer a mnemonic name for the unit, instead of the default “CEIA-<SerialNumber>”, open the **System** page, set the desired device name and then click “**Save**”. The new device name will appear on the upper right corner of the window.



The screenshot shows the Ceia web interface. The top header bar contains the Ceia logo on the left and the text "ceia-21006012345" followed by "<model>" on the right. A sidebar on the left lists navigation options: System, Transit Chart, Group Statistics, Monitor, Advanced, Group Definition, Date Time Setup, Network, Firmware Upgrade, System Upgrade, and Metal Detector Terminal. An orange arrow points from the "System" option in the sidebar to the main content area. The main content area is titled "System" and contains two fields: "Metal Detector Name" with the value "ceia-21006012345" and a "Set" button, and "Metal Detector Status" with the value "OK".



The screenshot shows the same Ceia web interface as the previous one, but with the device name changed. The top header bar now displays "GATE 1" followed by "<model>". An orange arrow points from the "GATE 1" text in the header to the "Metal Detector Name" input field in the main content area. The sidebar and the "Metal Detector Status" field remain the same. The "Metal Detector Name" field now contains the text "GATE 1" and the "Set" button is still present.

1.2.3.3 Network Data Setup

Open the **Network** page and set the network data. The network data (IP address, subnet mask and default gateway) can be automatically assigned using DHCP protocol or manually assigned by entering static IP address, subnet mask and default gateway to the Metal Detector.

NOTE: this page allows to replace the default Hostname with a mnemonic string.

Using DHCP no changes are required: press **Save** to confirm.

If desired, change the Hostname: a system reboot must be carried out: wait until the reboot phase is completed, then access the unit again by entering the new hostname in the URL field.

Network Hostname

Network Visibility: ☒ YES ☐ NO

When Network Visibility is OFF this web interface is turned OFF. This is helpful to prevent undesired configuration changes. To restore this web interface, change to 'YES' the Metal Detector 'NETV' local parameter.

☒ **DHCP**

☐ **Static**

If static addresses are used, click on **Static** and enter the network data. Press **Save** to confirm. A new setting of the IP address is automatically updated as **Save** button is pressed and the page is redirected to the login box. If the hostname has been modified, a system reboot must be carried out: wait until the reboot phase is completed, then access the unit again by entering the new IP address in the URL field.

Network Hostname

Network Visibility: ☒ YES ☐ NO

When Network Visibility is OFF this web interface is turned OFF. This is helpful to prevent undesired configuration changes. To restore this web interface, change to 'YES' the Metal Detector 'NETV' local parameter.

☐ **DHCP**

☒ **Static**

IP

Subnet Mask

Gateway

1.2.4 Definition of the group(s) the CEIA devices belong to

Open the **Group Definition** page:

The left box lists all devices currently online through the net.

To include a device in the group, select it in the left box and click on the right arrow button: it will move to the right box.

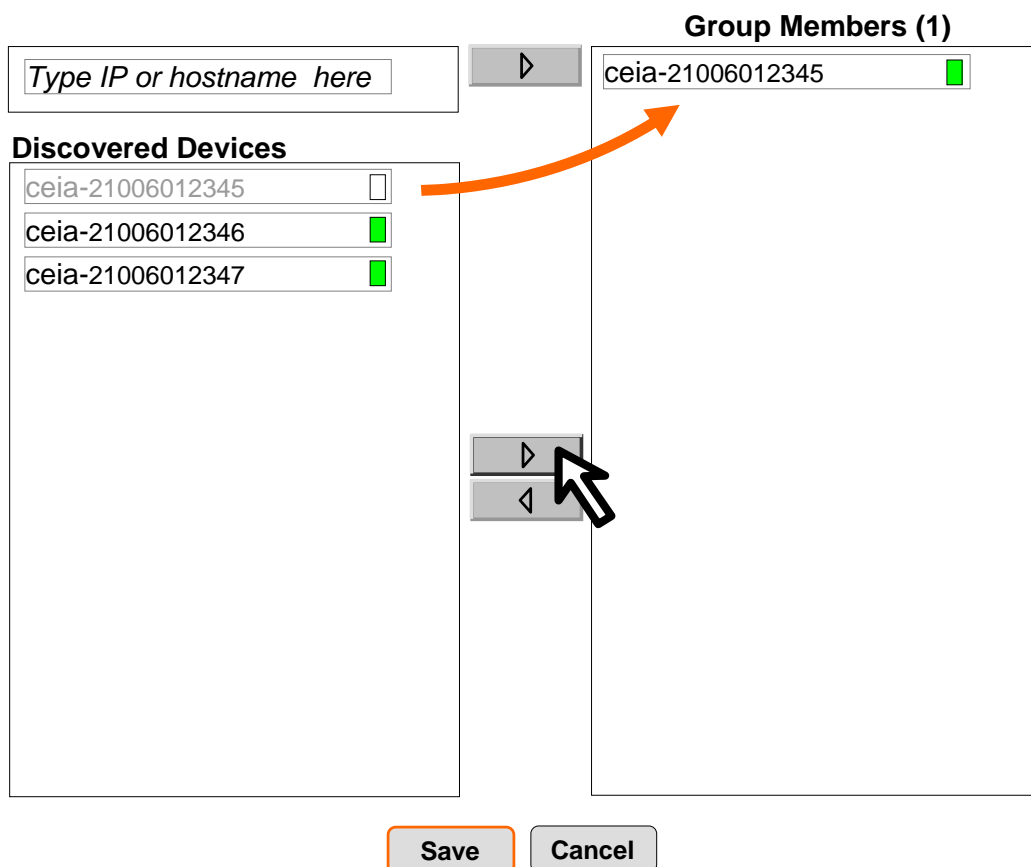
To remove a device from the group, select it in the right box and click on the left arrow button: it will return to the left box.

Use CTRL key to select more than one device.

If a device is currently off line, for instance it is switched off or not connected to the LAN, enter its IP address or Hostname (using DHCP protocol only), if known, in the upper left field “*Type IP or hostname here*”.

Press **Save** to confirm.

NOTE The status of the devices included in the group will be displayed on the Monitor page.



The screenshot displays the 'Group Definition' interface. At the top left, there is a text input field labeled 'Type IP or hostname here'. Below it, a section titled 'Discovered Devices' contains a list of three devices: 'ceia-21006012345' (with an unchecked checkbox), 'ceia-21006012346' (with a checked checkbox and a green status indicator), and 'ceia-21006012347' (with a checked checkbox and a green status indicator). To the right of this list is a 'Group Members (1)' section containing one device: 'ceia-21006012345' (with a checked checkbox and a green status indicator). Between the two lists are two arrow buttons: a right-pointing arrow (add) and a left-pointing arrow (remove). An orange arrow points from the first device in the 'Discovered Devices' list to the 'Group Members' list. A mouse cursor is pointing at the left-pointing arrow button. At the bottom of the interface are two buttons: 'Save' and 'Cancel'.

1.2.4.1 Master unit for connecting a group

ATTENTION!

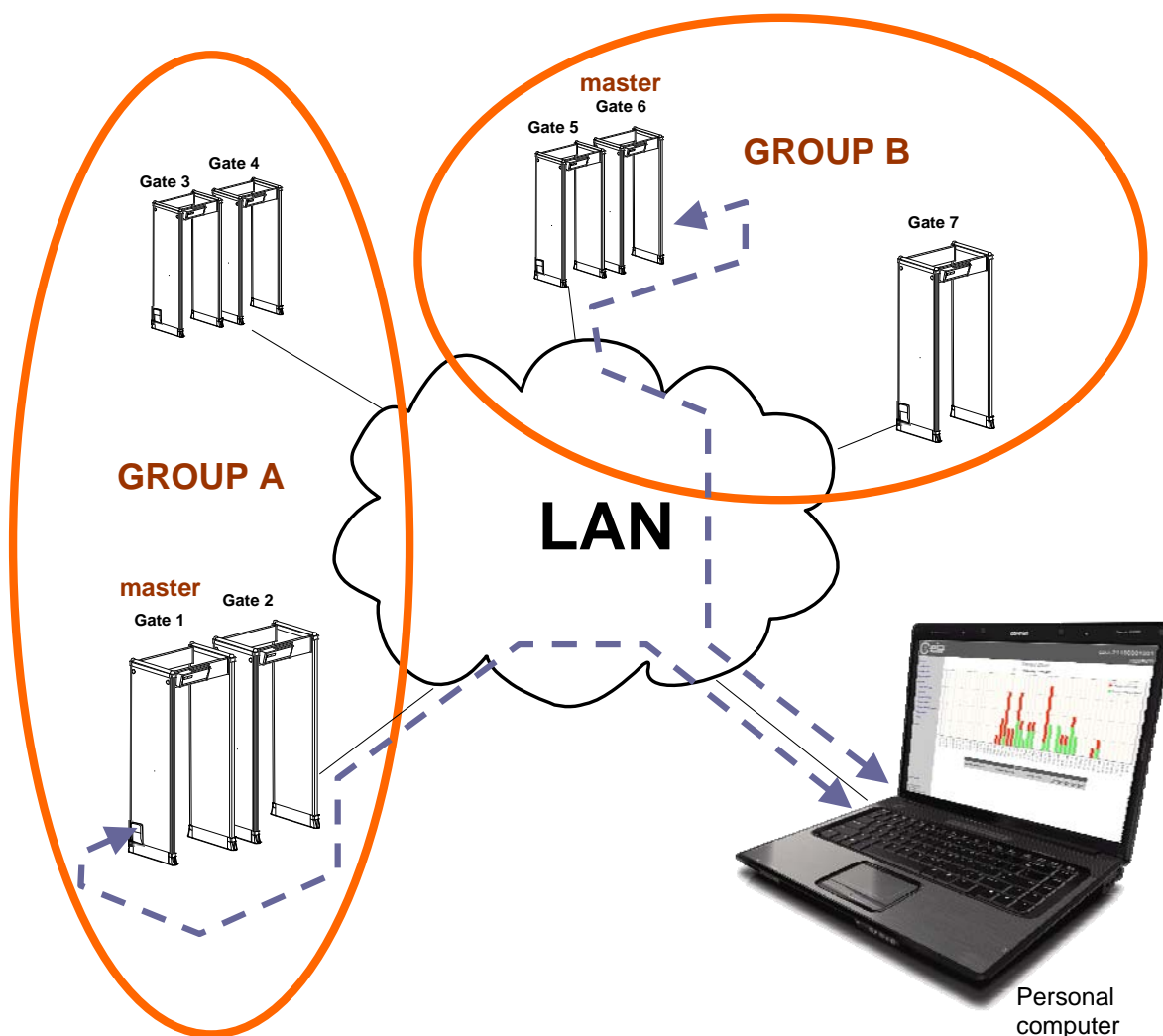
The group definition is made on the web server of the device currently connected.

Once the group has been defined on the first device, only the Monitor page of that unit will be populated with the icons representing the status of the entire group.

In that condition, the web servers of the other units of the group remain undefined.

If the status of the devices included in a group will be controlled by connecting always the same “master” unit, the group can be defined only on the web server of that unit.

Otherwise, the same group definition must be repeated on all units used to monitor the group.



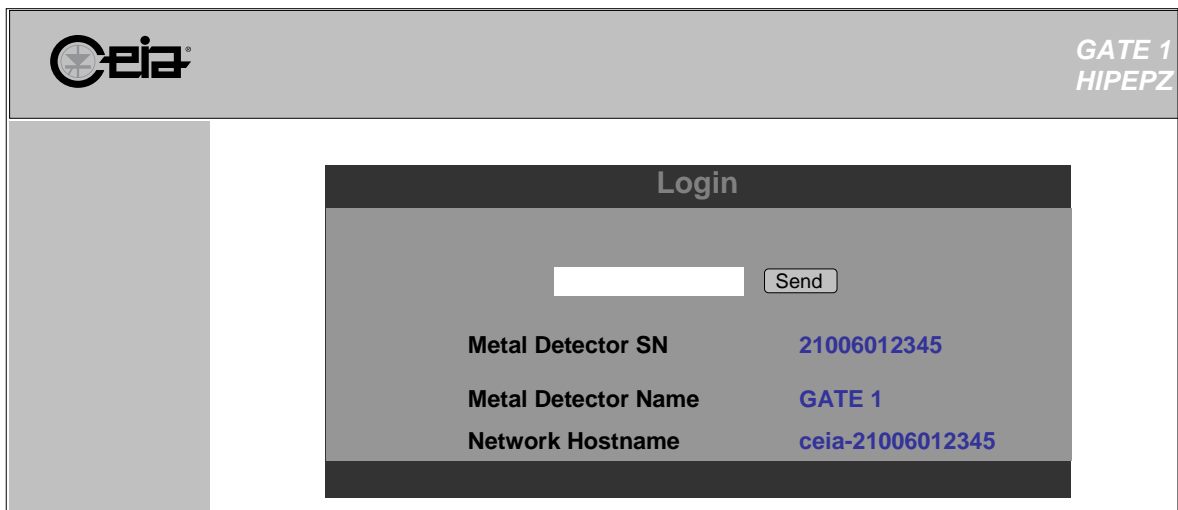
System layout with two distinct groups.

In this example an access “master” device is defined for each group: the web server of the master unit is used to control all the units of its group.

2 USE OF THE WEB SERVER

2.1 How to Access the Web Server of a device

- Run an Internet browser
- Search the available devices using the Bonjour utility: a list of the connected devices appears in a box on the left; select the desired device.
 - Otherwise, if Bonjour utility is not available, type the Metal Detector IP address (or its hostname, in DHCP mode only) in the URL field.
- A login box appears, reporting the Metal Detector name and the Network Hostname of the device. Enter a valid programming password of the WTMD:
 - using the superuser password a full access to the configuration features is provided
 - using the user password some advanced functions (submenu “Advanced”) are not available.



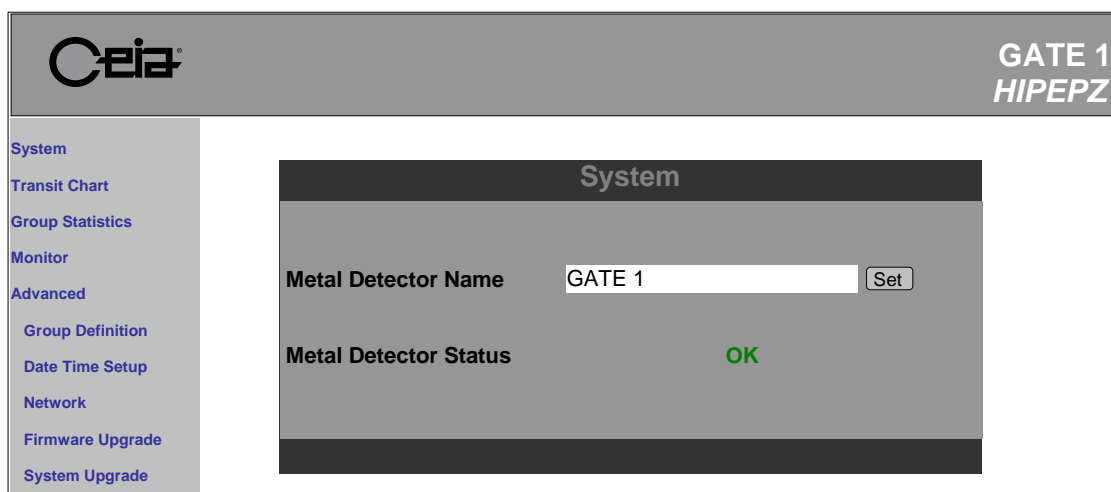
Login

Metal Detector SN 21006012345

Metal Detector Name GATE 1

Network Hostname ceia-21006012345

- Press **SEND** to submit the password: the device status is acquired and a summary window reporting the Metal Detector name and the device status appears.



System

Metal Detector Name GATE 1

Metal Detector Status OK

2.2 Menu Window of the Web Server

The main window of the web server includes the following boxes:

Header:

The identification data of the connected device are displayed on the right:


- Name of the device (“GATE 1” in the example below)
- Device model

Menu:

A list of the available functions is located on the left.

Network Data:


A list of the network data of the device is located below, in the lower left corner.

<p>Menu</p> <p>Network Data Serial number and network data of the device</p>		<p>Header</p> <p>Name of the device</p> <p>Model of the device</p>
--	---	---

2.3 Menu Functions available at User level

2.3.1 System

This function displays the Metal Detector name and its status.



The screenshot shows the Ceia web interface. At the top, there is a header bar with the Ceia logo on the left and 'GATE 1 HIPEPZ' on the right. Below the header, there is a sidebar on the left with a list of menu items: System, Transit Chart, Statistics, Monitor, Advanced, and Logout. The main content area on the right displays the 'System' menu. It contains two rows of information: 'Metal Detector Name' with a text input field containing 'GATE 1' and a 'Set' button, and 'Metal Detector Status' with the text 'OK' in green. At the bottom of the sidebar, there is a footer section with the website 'www.ceia.net' and some technical information: SN 21006012345, IP:, and MAC:.

Metal Detector Name

To change the Metal Detector name, type the new name and press **SET**.


NOTE The **Set** button is disabled at user level.

Metal Detector Status

This information corresponds to the answer to SC command in remote programming

2.3.2 Monitor

This function displays the status of the reachable units on the Metal Detector group.



GATE 1
HIPEPZ

System
Transit Chart
Statistics
Monitor
Advanced
Logout

Monitor

Last devices status update: June 03 2011 09:06:48 ([Refresh](#))


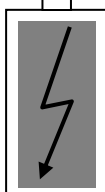
Number of devices: 7

GATE 1	GATE 2	GATE 3	GATE 4
Status : Ready	Status : Ready	Status : Ready	Status : Ready
HIPEPZ	HIPEPZ	HIPEPZ	HIPEPZ
IS: NILECJ 2	IS: NILECJ 2	IS: NILECJ 2	IS: NILECJ 2

GATE 5	GATE 6	GATE 7
Status : Ready	Status : Ready	Status : Ready
HIPEPZ	HIPEPZ	HIPEPZ
IS: NILECJ 2	IS: NILECJ 2	IS: NILECJ 2

www.ceia.net
SN 21006012345
IP:
MAC:

Each device is represented with a box reporting its data and status.

<i>Device name</i>		
<i>Status</i>	<i>Mains</i>	
<i>Model</i>		
<i>IS</i>		

Device Name: the name of the device on the net.

Status : this line indicates the device status:

Status: Ready device operating correctly

Failure: <message> device malfunction; the <message> text contains a self-diagnosis alert indicating the nature of the failure.

Model : this line indicates the device model

IS : this line indicates the current setting of the International Security Level.

- A symbol on the right upper corner indicates the status of the device on the net:



(green box) device reachable on the net and operating properly

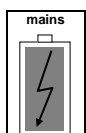


(red box) device reachable on the net in faulty condition

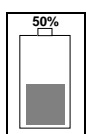


(gray box) device unreachable on the net

- A symbol on the right lower corner indicates the status of the device power supply:



device connected to the line






device powered by either an embedded or external emergency battery, with residual 50% of its capacity




2.3.2.1 Refresh of the Monitor page

The device status is updated automatically every minute.

The status of each device is refreshed by clicking on “**Refresh**” :

Last devices status update: June 03 2011 09:06:48 (Refresh)

GATE 1		GATE 2		GATE 3			
Status : Ready		Status : Ready		Status : Ready		Status :	
HIPEPZ		HIPEPZ		HIPEPZ		HIPEI	
IS: NILECJ 2		IS: NILECJ 2		IS: NILECJ 2		IS: NI	

GATE 5		GATE 6		GATE 7	
Status : Ready		Status : Ready		Status : Ready	

2.3.2.2 Detailed information of the device

A pop-up box reporting detailed information of each device appears by clicking on its box.

SN:

Status:

Security:

Device Name:

IP Address:

Bonjour Name:

21006012346

Ready

NILECJ 2

GATE 2

192.168.0.22

ceia-21006012346.local

ETHERNET PORT

Status: **CABLE CONNECTED**

PARAMETER SETTINGS:

Alarm Duration AD	0P
Alarm Tone AT	1
Alarm Volume AV	3
:	:
:	:
:	:

CLOSE

2.3.2.3 Accessing to a different device.

To access a different device, simply click on the IP address inside the corresponding detailed information box: a new web server page will be opened, with the same functions of the previous unit.

Last devices status update: June 03 2011 09:06:48 [\(Refresh\)](#)

GATE 1	GATE 2	GATE 3	GATE 4
Status : Ready	Status : Ready	Status : Ready	Status : Ready
HIPEPZ	HIPEPZ	HIPEPZ	HIPEPZ
IS: NILECJ 2	IS: NILECJ 2	IS: NILECJ 2	IS: NILECJ 2

GATE 5	GATE 6	GATE 7
Status : Ready	Status : Ready	Status : Ready
50%	80%	Mains

SN: **21006012346**
 Status: **Ready**
 Security: **NILECJ 2**
 Device Name: **GATE 2**

IP Address: **192.168.0.22**
 Bonjour Name: **ceia-21006012346.local**

ETHERNET PORT
 Status: **CABLE CONNECTED**

PARAMETER SETTINGS:

Alarm Duration AD	0P
Alarm Tone AT	1
Alarm Volume AV	3
:	:
:	:
:	:

CLOSE

NOTE The user password must be entered to access the web server of this unit.

Login

Metal Detector SN **21006012346**

Metal Detector Name **GATE 2**

Network Hostname **ceia-21006012346**

If the same group has been defined on the web server of the new unit, the Monitor page gives the same information of the previous device.

2.3.3 Transit Chart

This page displays a diagram of the transits occurred within a selected day.

The elapsed time is divided in 30-minute periods.

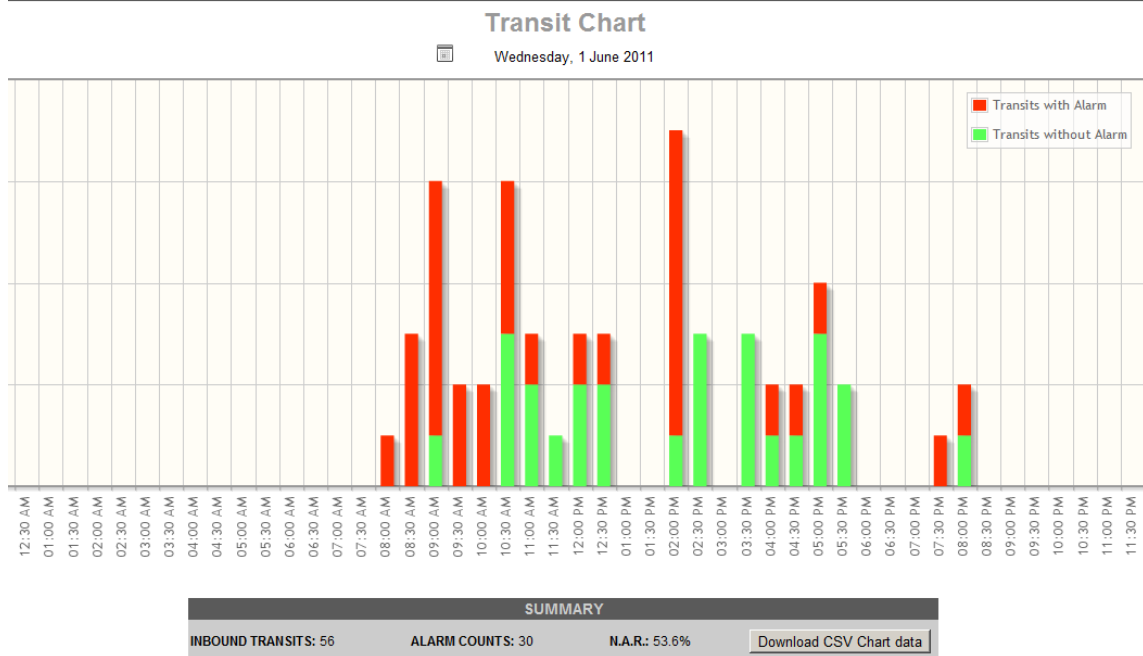
For each period the inbound transits occurred are visualized with a dual color bar: transits without alarm in green and transit with metal alarm in red. Placing the mouse on each bar, a pop-up box appears reporting all relevant numeric data.

In the lower part of the page a data summary is reported:

- **Inbound Transits:** number of the transits occurred along the inbound direction
- **Alarm Counts:** number of the transits with alarm
- **Alarm Rate (NAR) :** percentage ratio of the transits with alarm with respect to the inbound transit counter

The numeric data can be exported in a .csv file by pressing the “Download CSV Chart Data” button, on the right. The filename follows the syntax: **<device name><data>.csv**.

The displayed day can be selected using a calendar box.



2.3.4 Group Statistics

This page displays a table of the transits occurred within a selected period of time in the whole group.

From Date

Enter in this field the starting date of the period to display.

To Date

Enter in this field the ending date of the period to display.

Get Statistics

Click here to confirm the selected period and update the table contents.

Selected devices

List of the displayed devices. Click on the list to select a subset of the group.

Download Table

Exporting of the table to a .csv file.

Download Group Statistics

Exporting of a .zip file containing the .csv files of all the displayed tables.

If the selected period of time is less than or equal to 24 hours (proposed automatically by the page), the table displays the total number of transits and the transits with alarm occurred through each unit of the group, with a one hour step, and the total by hour, by device and for the selected devices.

End Date Start Date Calendar Start Time End Time Sum of the transits with alarm through one of the gates within the day
Sum of the transits through one of the gates within the day

From Date: 2011-06-01... 00:00 [Get Statistics](#)
To Date: 2011-06-02... 00:00 [Download Group Statistics](#)

[Selected Devices](#): GATE 1, GATE 2, GATE 3, GATE 4, GATE 5, GATE 6, GATE 7

Download Table		June 1, 2011						Total
		00:00	01:00	02:00	03:00	04:00	23:00	
GATE 1	T	212	75	...	...	...	55	1965
	A	27	6	...	...	...	3	201
GATE 2	T	..	..	...	...	...	..	..
	A	..	..	...	...	...	..	..
GATE 3	T	..	..	...	...	...	..	..
	A	..	..	...	...	...	..	..
GATE 4	T	..	..	...	...	...	..	..
	A	..	..	...	...	...	..	..
GATE 5	T	..	..	...	...	...	..	..
	A	..	..	...	...	...	..	..
GATE 6	T	..	..	...	...	...	..	..
	A	..	..	...	...	...	..	..
GATE 7	T	..	..	...	...	...	..	..
	A	..	..	...	...	...	..	..
Total	T	4520	..	...	...	...	..	13554
	A	472	..	...	...	...	..	1421

Sum of the transits through the selected gates within the hour
Sum of the transits with alarm through the selected gates within the hour
Sum of the transits through the selected gates within the whole day
Sum of the transits with alarm through the selected gates within the whole day

If the selected period of time is higher than 24 hours , the table gives the same information, but with a one day step.

End Date Start Date Calendar Start Time End Time Sum of the transits with alarm through one of the gates within the period of time

From Date: 2011-06-01... 00:00 Get Statistics

To Date: 2011-06-08... 00:00 Download Group Statistics

Selected Devices: GATE 1, GATE 2, GATE 3, GATE 4, GATE 5, GATE 6, GATE 7

Month

Download data		2011-06				Total
		01	02		07	
GATE 1	T	1965	2001	.....	1447	14552
	A	201	233	.....	133	1521
GATE 2	T	..	..	.....	..	..
	A	..	..	.....	..	..
GATE 3	T	..	..	.....	..	..
	A	..	..	.....	..	..
GATE 4	T	..	..	.....	..	..
	A	..	..	.....	..	..
GATE 5	T	..	..	.....	..	..
	A	..	..	.....	..	..
GATE 6	T	..	..	.....	..	..
	A	..	..	.....	..	..
GATE 7	T	..	..	.....	..	..
	A	..	..	.....	..	..
Total	T	13554	..	.....	..	45601
	A	1421	..	.....	..	4998

Sum of the transits through the selected gates within the period of time

Sum of the transits with alarm through the selected gates within the period of time

Sum of the transits through the selected gates within the period of time

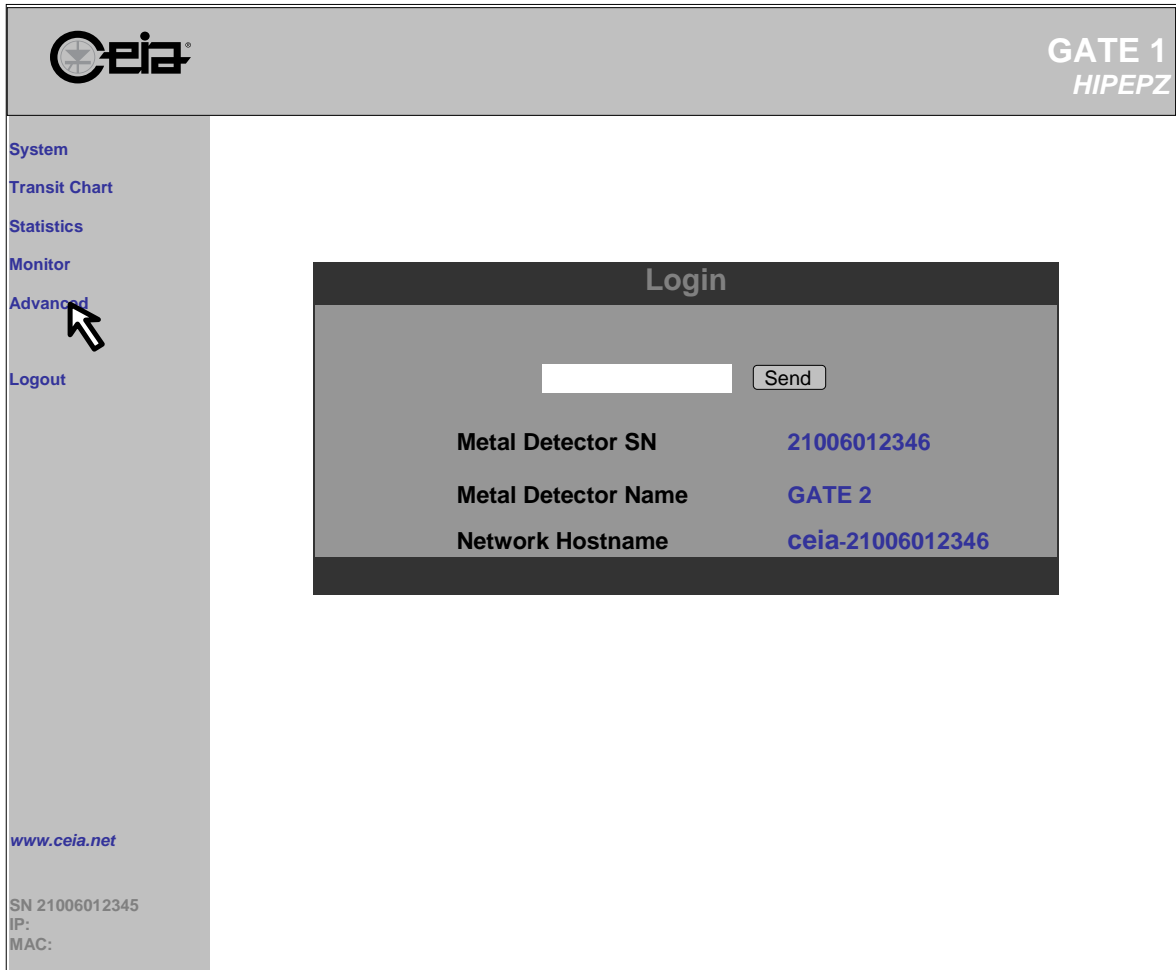
Sum of the transits with alarm through the selected gates within the period of time

2.3.5 Advanced Menu

2.3.5.1 Access level

This submenu is available only at superuser level.

If the device has been accessed at user level, the advanced menu can be opened by clicking on Advanced: a login box will appear. Enter the super user password: the full menu will appear on the left.



The screenshot displays the Ceia web interface. At the top, the Ceia logo is on the left, and "GATE 1 HIPEPZ" is on the right. A left sidebar contains a menu with the following items: System, Transit Chart, Statistics, Monitor, Advanced (highlighted with a mouse cursor), and Logout. The main content area features a "Login" dialog box with a text input field and a "Send" button. Below the dialog box, the following information is displayed:

Metal Detector SN	21006012346
Metal Detector Name	GATE 2
Network Hostname	ceia-21006012346

At the bottom left of the sidebar, the URL www.ceia.net is listed. Below the sidebar, the following device information is shown:

SN 21006012345
IP:
MAC:

2.3.5.2 Group Definition

Function:

Defining a group of devices as a subset of the networked units.

The left box lists all devices currently online through the net.

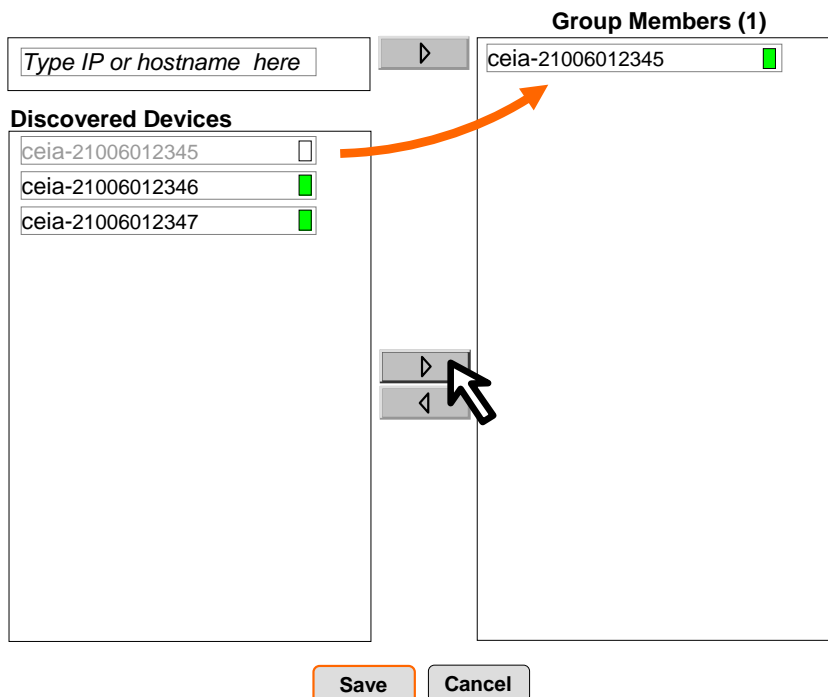
To include a device in the group, select it in the left box and click on the right arrow button: it will move to the right box.

To remove a device from the group, select it in the right box and click on the left arrow button: it will return to the left box.

Use CTRL key to select more than one device.

If a device is currently off line, for instance it is switched off or not connected to the LAN, enter its IP address or Hostname, if known, in the upper left field “*Type IP or hostname here*”.

Press **Save** to confirm.



The screenshot displays the 'Group Definition' web interface. On the left, under 'Discovered Devices', there is a list of three devices: 'ceia-21006012345', 'ceia-21006012346', and 'ceia-21006012347'. Each device has a small green status indicator. Above this list is a text input field labeled 'Type IP or hostname here' and a right-pointing arrow button. On the right, under 'Group Members (1)', there is a list containing the device 'ceia-21006012345' with a green status indicator. Between the two lists are two arrow buttons: a right-pointing arrow and a left-pointing arrow. A mouse cursor is pointing at the right-pointing arrow. An orange arrow points from the first device in the 'Discovered Devices' list to the 'Group Members' list. At the bottom of the interface are two buttons: 'Save' (highlighted with an orange border) and 'Cancel'.

2.3.5.3 Date and Time Setup

Select your Time Zone or set the correct Date and Time: this can be done manually, using the setting of the computer or synchronizing with a time source, if available (enter its static IP or its Hostname, in DHCP mode only) .

Press **Save** to confirm.

Current Time Zone [Change](#)

Current System time : 2011-07-20 04:27:13

- ☐ Manually choose Date & Time Settings - - : :
- ☒ Get Date & Time from you computer 2011-07-20 18:07:21
- ☐ Synchronize with an NTP Time Source (IP or Host Name)

Save

Cancel

NOTE The first time the device is accessed entering the date and time is requested: the page **Date Time Setup** is automatically open.

2.3.5.4 Network

Function:

Setting of the Metal Detector Network Hostname and the network data.

Network Hostname

If desired, change the Hostname and press **Save** to confirm: a system reboot must be carried out: wait until the reboot phase is completed, then access the unit again.

Network Visibility

The default value of this field is "YES". Set this field to NO if you want to prevent access to the unit via web.

ATTENTION!

This selection puts the unit off-line and unreachable. It will refuse the access to its web server and will disappear from the Monitor page of the other units of the group.

To restore this condition, it is necessary to set the parameter NETV to YES, by local or remote programming.

Network Data

Using DHCP no network data are required.

Network

Network Hostname

Network Visibility: ▼

When Network Visibility is OFF this web interface is turned OFF. This is helpful to prevent undesired configuration changes. To restore this web interface, change to 'YES' the Metal Detector 'NETV' local parameter.

☒ **DHCP**

☐ **Static**

Save

Cancel

If static addresses are used, click on **Static** and enter the network data. Press **Save** to confirm. A new setting of the IP address is automatically updated as **Save** button is pressed and the page is redirected to the login box. If the hostname has been modified, a system reboot must be carried out: wait until the reboot phase is completed, then access the unit again .

Network

Network Hostname

Network Visibility: ▼

When Network Visibility is OFF this web interface is turned OFF. This is helpful to prevent undesired configuration changes. To restore this web interface, change to 'YES' the Metal Detector 'NETV' local parameter.

☐ **DHCP**

☒ **Static**

IP

Subnet Mask

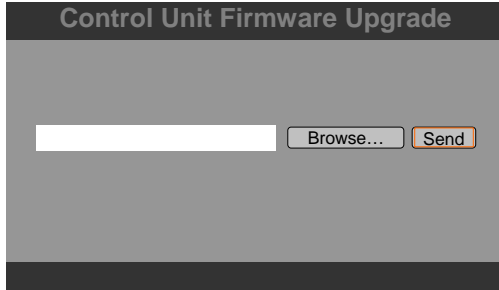
Gateway

Save

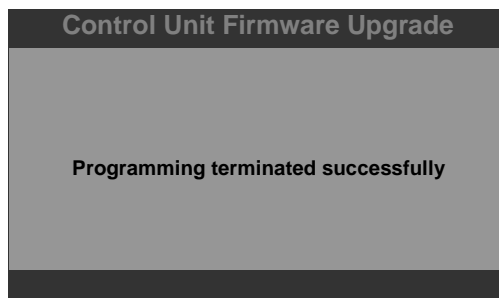
Cancel

2.3.5.5 Firmware Upgrade

Function: upgrade of the WTMD firmware.

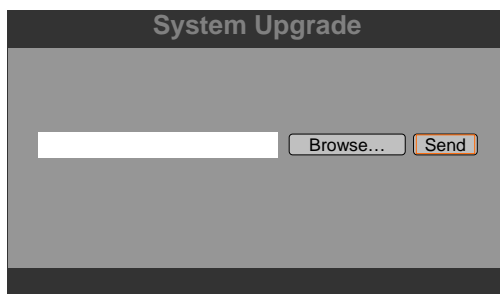


- Browse the upgrade file (. crp extension) and press SEND.
- Wait for the completion of the data transfer. **ATTENTION: do not perform any other operation during the upgrade process!**
- At the end a confirmation message appears:



2.3.5.6 System Upgrade

Function: upgrade of the WTMD web server.



- Browse the upgrade file (. rar extension) and press SEND.
- Wait for the completion of the data transfer. **ATTENTION: do not perform any other operation during the upgrade process!**

2.3.5.7 Metal Detector Terminal

Function: remote programming of the WTMD.

A command line appears, with an output box which displays the answer of the WTMD.

Press **Send** button to execute a command.

Press **Clear** button to erase the output box.

Metal Detector Terminal

AD

AD 0P

#

2.3.5.8 Maintenance

Functions: Request of a log file to be sent to CEIA service department; Reset to factory setting; System reboot

Maintenance Logs

Click on the link *Click here to download Maintenance Logs* to download the file and send it to CEIA. The file has the name: "logfiles.ceia".

System Reboot

Click on the link *Click here to Reboot* to reboot the system .

Reset to factory default settings

Click on the link *Click here to Reset to Factory Default Settings* to reset the system to the factory settings.

System Info

Click here to download Maintenance Logs

Download a log file that can be used by CEIA to help diagnose any possible problems.

System Reboot

Click here to Reboot

Reboot the Metal Detector network interface.

Reset to Factory Default Settings

Click here to Reset to Factory Default Settings

Reset the Metal Detector network interface to it's factory default settings.
This change will not affect any Metal Detector parameter.

2.3.5.9 About

Function: visualization of the system version and third party software licenses.

About

Metal Detector

Model : CEIA HIPEPZ

Serial Number : 21106021094

Firmware Version: 8115

Network Interface

Firmware version : IXCv1010

IP Address : 10.3.0.187

MAC Address : 00:0A:26:01:1C:2B

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Third Party Software Licenses

2.3.6 System Recovery

A special utility (**CEIA System Recovery**) is available for recovering the system, by using an image of the system.

Requirements

- A personal Computer with available one USB port and one RS232 serial port.
- A serial cable fitted with 9-pole connectors (CEIA code 3805)
- A micro USB Type B connector to USB Type A connector cable (CEIA code 51625).

Installation

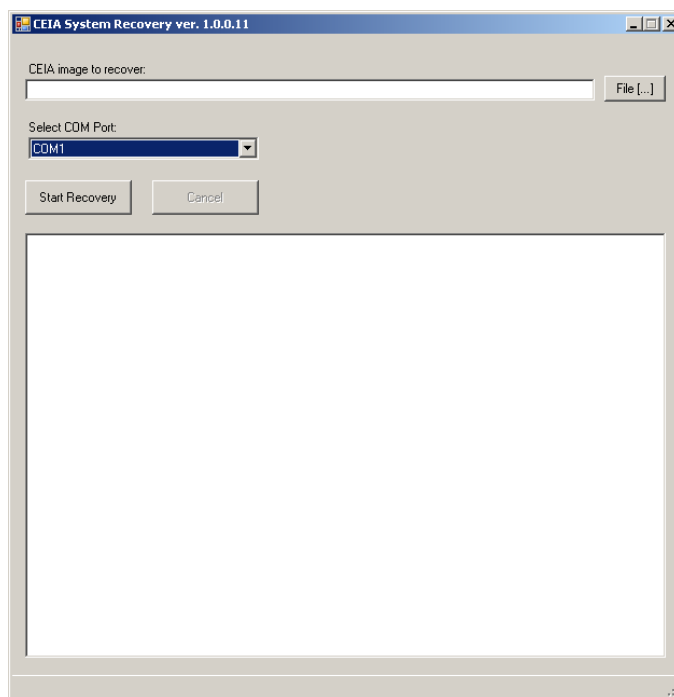
Extract the **SystemRecoveryPackage** and start the installation wizard running **setup.exe**.

At the first run additional components will be installed.

Please launch the application a second time to start the recovery application.

Recovery Procedure

- Connect the PC to the Serial communication port (PS/COM) and to the micro USB port of the detector, using the cables above mentioned.
- Start the **CEIA System Recovery** program, by clicking on its icon.
- Select the COM port used to connect the Metal Detector.
- Browse the system image (.rar or .bin extension)
- Press **Start Recovery** and follow the program indications (the program will request to switch off the Metal Detector and turn it on again).



- At the end the program provides a message stating the successful data transfer completion.
- **Switch off the Metal Detector and turn it on again to complete the procedure!**

Web site: www.ceia.net