# **CASTELSUPERVISEUR**

# User Manual



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#### FORWORD

**CASTELSuperviseur** is a graphical supervision tool providing alarm-reporting features with events coming from VDIP's network material devices. Depending of the configuration parameters, **CASTELSuperviseur** will provide:

- 1. A real-time updating process for consultation tables
- 2. A real-time animation with icons and sound effects on synoptic view based on geographical plan
- 3. A real-time updating process for alarms and events table and events
- 4. Synoptic view sequencing by simple mouse clicks
- 5. Events, alarms, stat changes recording in a database
- 6. Alarms generation on state changes. Each alarms can be associated
  - a. With remote processes like SMS or email sending or pop-up window display
  - b. With instructions to perform
  - c. With print processes
- 7. A specific visualization for communications type events

There are two different releases available for **CASTELSuperviseur** 

- One allowing up to 500 supervision points
- One with no restriction on the number of points

The configuration part is different software. The supervision software is then divided in two parts

- 1. CASTELConfigSuperviseurfor application configuration
- 2. **CASTELSuperviseur** for operating processing

#### CASTELSUPERVISEUR DESCRIPTION

**CASTELSuperviseur** is the software provided to supervise a site equipped with VDIP material architecture. **CASTELSuperviseur** is installed on a server PC called "Server PC" and can be used by all other PC connected on the network with a simple web navigator. A using restriction by login and password is also featured.

The links between VDIP module and the peripheral devices is provided by the software application called **CASTELServeur**, which has a centralized role. **CASTELServeur** is usually installed on a server PC (see CASTELServeur User's manual).

With **CASTELSuperviseur**, a user can consult events and alarms in real-time mode with graphical view or tables. Three type of events recording are provided : All events recording, alarms recording and values recording.

It allows also the user to command in a remote way inputs or outputs of the VDIP material architecture.(For example :inhibit inputs, activate outputs)

#### **NETWORK CONFIGURATION**

**CASTELSuperviseur** is normally installed on the same PC than CASTELServeur but can also be installed on any PC of the local network. In order to get events from the material architecture, **CASTELServeur** application must be running while **CASTELSuperviseur** is used. It requires also a database connection to get the current configuration and to record the needed events.

# SOFTWARE REQUIREMENTS

To install **CASTELSuperviseur** on the PC server, the following software (provided with VDIP CD) are needed :

- 1. Tomcat 5.5
- 2. Apache 2.0
- 3. A database (Microsoft SQL Server, Oracle....)
- 4. Sun Microsystem JDK 1.7

On the client PC, must be installed Sun Microsystem JRE 1.7 to display the dynamical pages using Java applet.

#### CASTELSUPERVISEUR INSTALLATION

#### Prerequisite

Beforehand, **CASTELSuperviseur** requires some mandatory elements like:

- All material parts should be installed and well configured ,
- To know the material interfaces, **CASTELAcces** requires CASTELServeur installation. To do this, please see **CASTELServeur** installation user's manual.

#### **CASTELSuperviseur installation**

Before installation, check that CASTELServeur is installed. On the VDIP installation CD, launch "DeployCASTELSuperviseur.exe"

1. The following window will appear :

Installer	Language 🛛 🔀
	Please select a language.
	English
	OK Cancel

2. Select the language and then click OK



Then click « Install ».

3. The installation will run :

😽 VDIPSuperviseur Setup	
Installing Please wait while VDIPSuperviseur	(a)
Extract: console_deps.jar 100%	
	<u> </u>
CASTEL	
Nullsoft Install System v2.20	Cancel

4. Eventually, if the super administrator « sa » password is not « sa », the user will be prompted in order to enter this password. This password is mandatory for SQL scripting in cas of databasetable updating.

SQL Server password	
Please, enter the sa SQL Server password	ОК
	Cancel

5. The following window will appear in order to choose the Start Menu Folder:

6	DIPSuperviseur	Setup			
CI	noose Start Menu Fol Choose a Start Menu fold	<b>ler</b> er for the VDIPSupervis	seur i sho	rtcuts.	
<u>-</u>	ielect the Start Menu fold an also enter a name to o VDIPSuperviseur	er in which you would l reate a new folder.	ike to create t	he program's short	cuts. You
-	Accessoires AceHTML Freeware Computer Associates CréditCalc DbaMGR2k Dell Accessories Dell sans fil Démarrage ImageMagick 6.1.6 Q8 InstallShield iTunes Jeux				
Nolis	oft Install System v2,20	(	< <u>B</u> ack	Next >	Cancel

6. Once the installation is ended, the following window will appear :

🗑 VDIPSuperviseur	Setup 📃 🗖 🔀
CASTEL	Completing the VDIPSuperviseur Setup Wizard VDIPSuperviseur in the has been installed on your computer. Click Finish to close this wizard. Run Tomcat
	< <u>B</u> ack <u>Finish</u> Cancel

#### « System.xml » file

« System.xml » is the application configuration file. To open it, please launch « Démarrer  $\rightarrow$  Programmes  $\rightarrow$  CASTELSuite  $\rightarrow$  CASTELSuperviseur  $\rightarrow$  System.xml ».

It allows the user to configure the following items :

#### **Database access**

```
The following XML element is used :
<bdd>
<factory>ausy.utils.data.SqlServerDataSourceFactory</factory>
<factoryOracle>ausy.utils.data.OracleDataSourceFactory</factoryOracle>
<nom> XNetSuperviseur </nom>
<instance> vdip</instance>
<adresse>localhost</adresse>
<port>1433</port>
<user>vdip</user>
<pass>C@ste!49</pass>
<service></service>
</bdd>
```

Only the **bold** fields can be modified:

- 1. factory : Rename <factory> tab by <factoryMSDE> and <factoryOracle> by <factory> for an Oracle configuration as VDIP works with <factory> tag.
- 2. adresse : IP Address used by the PC that holds the database,
- 3. <u>port</u>: TCP/IP port number used by database to provide a client communication with the TCP/IP network protocol. (default 1433),
- 4. <u>user et pass</u>: Login and password used to connect to the database.

 $\underline{\textbf{Oracle release}}$  : In order to specify an Oracle database, modify « system.xml » file like following :

<factoryMSDE>ausy.utils.data.SqlServerDataSourceFactory</ factoryMSDE >

<factory>ausy.utils.data.OracleDataSourceFactory</factory>

#### Default language for application

The following part is used :

<language>

<default>**en**</ default > </language>

Please specify the default language :

- 1. fr : french
- 2. en : english

#### **Commandes parameters for CASTELSuperviseur**

The following part is used :

<command> CASTEL SA – ZI St Lambert 49412 SAUMUR France

```
<start force output>
           <delay>0</delay>
           <tempo>0</tempo>
     </start_force_output>
     <stop force output>
           <delay>0</delay>
     </stop_force_output>
     <disable input>
           <delay>0</delay>
           <tempo>0</tempo>
     </disable_input>
     <force disable input>
           <delay>0</delay>
           <tempo>0</tempo>
     </force disable input>
</command>
```

These values are parameters used when a user does a remote command from the menu or by clicking on a point. "delay" value is the delay time before starting action. «tempo" is the duration of the action.

#### **Other parameters**

49412 SAUMUR

France

The following part is used:

```
<webui>
      <session>
             <timeout>1800</timeout>
      </session>
      <nb rows>20</nb rows>
      <realtime>
             <nb_rows>20</nb_rows>
      </realtime >
      <scrollable>
             <height>500px</height>
      </scrollable>
      <synoptic>
             <width>1150</width>
             <height>800</height>
             <offsetx>36</ offsetx >
             <offsety>348</ offsety >
      </synoptic>
      <synopticandalarm>
             <totalwidth>1230</totalwidth>
             <totalheight>750</totalheight>
             <synopticwidth>1230</synopticwidth>
             <synopticheight>630</synopticheight>
             <alarmrows>3</alarmrows>
      </synopticandalarm>
      <synopticandcommunication>
CASTEL SA – ZI St Lambert
                                   Page 10 of 40
```

<totalwidth>**1230**</totalwidth> <totalwidth>**750**</totalwidth> <synopticwidth>**1230**</synopticwidth> <synopticheight>**630**</synopticheight> </synopticandcommunication>

</webui>

- 1. <u>session.timeout</u>: specify the number of minutes the application maintains a user's session information since the last page request (-1 for no timeout),
- 2. <u>table.nb\_rows</u>: indicate the number of rows by page for the web page displaying a list of data.
- 3. <u>realtime  $\rightarrow$  nb rows</u>: indicate the number of rows displayed on the real time web pages(alarms, defaults, events)
- 4. <u>scrollable.height</u>: specify the height value used for tables. If a table is higher than this value, a scrollbar will appear
- 5. <u>synoptic.width</u> : Width value of the displayed synoptic for simple synoptic view
- 6. <u>synoptic.height</u>: Height value of the displayed synoptic for simple synoptic view
- 7. <u>synoptic -> offsetx</u>: Video popup parameters. The video popup will be displayed with the following x parameters: Selected point x parameter + this offsetx.
- 8. <u>synoptic -> offsety</u>: Video popup parameters. The video popup will be displayed with the following y parameters: Selected point y parameter + this offsety.
- 9. <u>sysnopticandalarm → totalwidth</u>: Width value of the all page displaying synoptic and alarms view
- 10. <u>synopticandalarm → totalheight</u> : Height value of the all page displaying synoptic and alarms view
- 11. <u>synopticandalarm → synopticwidth</u>: Width value of the displayed synoptic for the page displaying synoptic and alarms view
- 12. <u>synopticandalarm → synopticheight</u>: Height value of the displayed synoptic for the page displaying synoptic and alarms view
- 13. <u>synopticandalarm → alarmsrows</u>: Number of rows for current alarms for the page displaying synoptic and alarms view
- 14. <u>sysnopticandcommunication</u>  $\rightarrow$  totalwidth : Width value of the all page displaying synoptic and communications view
- 15. <u>sysnopticandcommunication</u>  $\rightarrow$  totalheight : Height value of the all page displaying synoptic and communications view

- 16. <u>sysnopticandcommunication</u>  $\rightarrow$  <u>synopticwidth</u>: Width value of the displayed synoptic for the page displaying synoptic and communications view
- 17. <u>sysnopticandcommunication</u> → <u>synopticheight</u>: Height value of the displayed synoptic for the page displaying synoptic and communications view

## Trace parameters

The following part is implicated:

<trace>

<state>1</state> <mode>FILE,CONSOLE</mode> <nb\_logs>2</nb\_logs> <size>10000000</size> <path>C:\Program Files\CASTELSuite\Superviseur\_log</path> </trace>

Only the **bold** fields can be modified:

- 1. <u>**nb**</u> logs: Maximum number of log file to keep. Beyond this value, the older files are removed from the hard disk.
- 2. <u>size</u> : Maximum size of log files in bytes.
- 3. **<u>path</u>**: Directory used for log files.

Application data save parameters

The following part is implicated:

<datasave> <path>C:\Program Files\CASTELSuite\Datasave</path> </datasave>

Only the **bold** fields can be modified:

1. **<u>path :</u>** Directory where database should be saved.

# **Special parameter for badging events**

The following part is implicated:

```
<badging>
<tempo>6000</tempo>
</badging>
```

A point whose states are mapped with a badging event is particular because there is not an event that permit to change back to normal state. Therefore, VDIMonitor put automatically these points to normal state after a delay specified by this tag. The value is in milliseconds.

#### Various settings related to test connection diagrams

This is the next part of the file "System.Xml"

```
<ping_applet>
<activated>true</activated>
<frequency>60000</frequency>
</ping_applet>
```

The synoptic applet running in a web browser connected to the "synoptic" page conducts regular tests of connections to the server VDIP. This is to warn a person connected that CASTELServeur is stopped.

By default, the test connection is enabled and the frequency is 60 seconds.

#### Parameter related to « video » feature

By default, the feature that provide video stream in synoptic pages is deactivated. To enable this feature, use the following part : <video> <active>**true**</active > </video >

#### Parameter related to « communication » feature

By default, the feature that provide "communication points" in synoptic pages is deactivated. To enable this feature, use the following part :

<communication> <active>**false**</active >

```
<br/>
```

Only the **bold** fields can be modified:

- 1. <u>active</u>:
  - a. true : "communication points" management is active.
  - b. False : "communication points" management is not active.

#### 2. <u>buttons</u>:

- a. true : Bar with 2 buttons to activate the Speak/Listen mode and release the current call is displayed.
- b. False : No bar are displayed.
- 3. <u>blink</u>:
  - a. true : A specific flash is enabled on such communication points
  - b. False : No specific flash.

#### Parameter related to Alarm Popup

This is the next part of the file "System.Xml"

```
<popupalarm>
   <active>false</active>
</popupalarm>
```

#### Only the **bold** fields can be modified:

```
1. <u>active</u>:
CASTEL SA – ZI St Lambert
49412 SAUMUR
France
```

- a. true : Popup alarm is displayed when an alarm occurs.
- b. False : No popup alarm.

## **Reserved CASTEL**

```
<QueueSize>
<ClientInfoInitialCapacity>30000</ClientInfoInitialCapacity>
<EventManagerInitialCapacity>30000</EventManagerInitialCapacity>
</QueueSize>
<ping_applet>
<activated>true</activated>
<frequency>60000</frequency>
</ping_applet>
```

#### « Resources » directory

**CASTELSuperviseur** uses graphical and audio files available under "resources directory.

<u>Note:</u> Don't use image files stored anywhere else than in « resources » directory.

#### « terminal.xml » file

The « terminal.xml » file is used to configure the mail server for mail sending and to define the serial port used to communicate with a GSM modem. This file can be found under "Program Files/CASTELSuite/Tomcat6/webapps/CASTELSuperviseur Use NotePad or another editor to modify it :

<email>

```
<host>[host].smtp.fr</host>
<user>[user]</user>
<pass>[password]</pass>
<from>[email address]</from>
```

</email>

- 1. <u>host</u> : Mail server name,
- 2. user/password : Login and password used for SMTP server connection,
- 3. email address : Mail address used to send mail ( sender mail)

#### <port>

```
<name>COM3</name>
<baud>9600</baud>
</port>
```

- 1. <u>name</u> : Serial port used to connect the GSM modem,
- 2. <u>baud</u> : Speed of the connection.

# CASTELSUPERVISEUR FIRST USE

#### Documentation

The documentation about **CASTELSuperviseur** is constituted by this manual and by an online documentation reachable by a click on the help icon displayed on each dialog box.

#### **Software launching – First recommendations**

To launch **CASTELSuperviseur**, use « Démarrer→ Programmes→ CASTELSuite→ CASTELSuperviseur→CASTELSuperviseur ».

First, you must configure the users rights in order to permit or not the access to the application. This is done with **CASTELServeur** application where you must configure the users and the features they are allowed to use. (See **CASTELServeur** user's manual)

This step means to:

- > Specify the configuration and exploitation features associated to each user.
- > To restrict the access to **CASTELSuperviseur** to the specified users.

# **Important:** For the installation of the Apache license and the use of Java applets, refer to the CASTELServeur instructions.

#### Identification

- 1. Please enter the login and password (configured in CASTELServeur with rights to **CASTELSuperviseur** features). By default, use « castel/castel » as a default manufacture login/password couple.
- 2. Once the login is accepted, you must enter the licence key provided by the manufacturer. Copy then paste the key from the licence file provided on the VDIP CDROM to avoid mistakes.

# CASTELSUPERVISEUR WEB PAGES

# **Connection to the application**

# Authentification

a Login - Microsoft Internet Explorer	
Eichier Edition Affichage Fayoris Qutils 2	At 1997
Précédence     Suivance     Arrêter     Áctualiser     Démarrage     Précédence     Favoris     Média     Historique     Courrier     Imprimer     Édition     Discuter	-28 Messenger
Adresse 🕘 https://labo5/VDIPMonitor/main/login.jsp	💌 🄁 ок
VDIPMonitor Collège St Exupéry	CASTEL
	Back
P Login	<i>a</i>
Login Password	
Valid	
Applet popup_applet started	v1.3.5

- This page provides the identification process to the **CASTELSuperviseur** application
- > This page is reachable from the menu <u>*Home/Connection*</u>
- ✓ Enter your login and password then confirm your entry. First, the login and password should have been configured in CASTELServeur. Use the manufacturer default identification "castel/castel" for the first use.
- ✓ Login and password are mandatory. The password will appear in a hidden way (\*\*\*\*) in order to ensure confidentiality.

#### Home page

Hama Hissaraft Internat Evalurar	
Fichier Edition Affichage Favoris Outils ?	
Image: Sulvante     Arrêter     Actualiser     Démarrage     Image: Sulvante     Image: Sulvante <th>er Messenger</th>	er Messenger
Adresse 🕘 https://labo5/VDIPMonitor/main/home.jsp	💌 🄁 ок
Volip VDIPMonitor	
Collège St Exupéry	CASTEL
🔍 john 💦 🚽 Home 🗣 Real time 🗣 Recordings 🗣 Commands 🗣 Data 🗣	[Disconnect]
	Back
/ <b>3</b>	
Home	i 🖉 🔍 🔤
CASTEL	
* 0.2008 Child	

- **D** This page is the home page of **CASTELSuperviseur** application. It shows:
  - One horizontal menu bar providing access to all CASTELSuperviseur features,
  - One head bar
    - Displaying the feature title,
    - Providing a quick link to previous page,
    - Providing a button to print the current screen
    - Providing a button to access the help page of the current feature
- > This page is reachable from the following menu <u>*Home/Home</u>*</u>

# Real time

#### States

#### Consultation tables list

Consultation	table list -	Microsoft	Internet Exp	lorer											
Fichier Edition	Affichage	Favoris (	Dutils ?												1
Orécédente	Suivante	Arrêter	2 Actualiser	Cán Démarrage	Rechercher	👷 Favoris	<b>S</b> Média	Historique	Courrier	) Imprimer	Édition	Discuter	X Messenger		
Adresse 🙆 http	s://labo5/VDIF	Monitor/realt	ime/consult_tab	e_L.jsp											💌 🋃 ок
	-						<b>VDIP</b> M Collège S	lonitor t Exupéry							CASTEL
🧕 john			Horr	e 🗸	Real time	<b>•</b> 1	Recordings		🚽 Comm	ands	🚽 Data	•			[Disconnect]
															Back
🦁 c	onsultat	on table	list											é	≣∢
							Tab 🛆								
Access															
Light															
ど Applet popup_a	pplet started												6	👌 🧐 Intranet	local

- This page shows the consultation tables list with the following details:
   Consultation table name,
- The list items are displayed depending on the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- > This page is reachable from the following menu <u>*Real Time/Consultation table*</u>
- > The visualisation of a specific consultation table is performed with view button  $\blacksquare$ .

#### Consultation table

🙆 Tableau de Consultation - Micr	osoft Internet Expl	orer						
Fichier Edition Affichage Favoris	; Outils ?							
Précédente Suivante Arrê	ter Actualiser D	émarrage Rechercher	👷 🔮 Favoris Média	Historique	Courrier Imprimer	Édition Discuter	28 Messenger	
Adresse 🕘 https://labo5/VDIPMonitor/e	objectaction.do							🖌 🄁 ок
vdin V			VDIPSu	perviseur				
solutions			Collège S	St Exupéry				CASTEL
Second Se	Accuei	l 🚽 Fil de l'eau	🚽 Historiques		🚽 Commandes	🚽 Données 🚽		[Déconnecter]
								Retour
-								
Tableau de Con	sultation							- 🔿 🔍 📗
7-bl								
Nom		Etat			Valeur			
door		Porte fermée			0			Commander
								-
								~
e							🔒 🧐	Intranet local

- This page displays the current states of points included in the selected consultation table with the following details:
  - Monitored point name,
  - Current point state,
  - Current point value
- A point value depends of the type of point:
  - Logical point: 2 possible values (0 or 1, On or Off, Open or Closed)
  - Numeric point: 5 possible values, each state match with a threshold value.
- □ This page is updated periodically depending on events occurring on the material device interfaces.
- This page is reachable by clicking on the view button associated to a consultation table in the page <u>Consultation table list</u>

#### Alarms

Pending alarms - Microsoft	Internet Explorer						
Fichier Edition Affichage Fa	voris Outils ?						
Précédente Suivante	💉 💋 🏠	ge Rechercher Favoris Ma	èdia Historique	Courrier Imprimer	Édition Discute	ar Messenger	
Adresse 🗃 https://labo5/VDIPMon	itor/realtime/current_alarms.jsp						💌 🔁 ок
vdip		V	DIPMonitor				
olutions in the second se	Home	Real time     Record	ege St Exupery_ dinas	<ul> <li>Commands</li> </ul>	🕳 Data 🖉		CASTEL [Disconnect]
		• •		•	<b>V</b> 5565		
							Back
🍯 Pending alarms							- 🚑 🗟 🗌
Time	Point	Label	Value	1	Jnit	Acknowledg	e all alarms 🛆
28/08/2006 16:23:39	door	dor opened	1			Acknowledge	
							=
						🔒 😔 L	ntranet local

- This page displays the current alarms with the following details:
  - Alarm timestamp (date and time),
  - Current point name,
  - Current point state,
  - Current point value,
  - Unit (only for numerical points)
- This page is updated periodically depending on events occurring on the material device interfaces.
- The user can acknowledge the alarm by clicking on « Acknowledge » button. This action displays a dialog box with the instruction associated to the alarm.

Confirmation popup				
Please, close the hall door				
OK Annuler				
Java Applet Window				

> This page is reachable from the following menu <u>Real Time/Alarms</u>

#### Defaults

er Edition Affichage	Favoris Outils 7	,											
édente Suivante	X Arrêter Actu	aliser Démarrage	Rechercher	👷 Favoris	Média	Historique	Courrier	Name Imprimer	Édition	Discuter	X Messenger		
🕫 顲 https://labo5/VDIPM	1onitor/realtime/curre	nt_defaults.jsp											× 🖻
lin					VDIPM	onitor							
ons		/		Co	ollège St	Exupéry							CASTE
hn		Home 🔻	Real time	🔶 Rec	zordings		🔶 Comm	lands	🔶 Dat	3 🚽			[Disconne
													Back
Pending defa	aults											1	<u>s</u>
rime		Point				Label				Value			^
28/08/2006 16:27:59		door				dor opened				1			
													=

- This page displays the current defaults with the following details:
  - Default timestamp (date and time),
  - Current point name,
  - Current point state,
  - Current point value,
- This page is updated periodically depending on events occurring on the material device interfaces.
- > This page is reachable from the following menu <u>*Real Time/Defaults*</u>

#### **Events**

er Ed	lition Affichage Favoris Ou	ıtils ?		
G édente	- 😥 - 💌 Suivante - Arrêter	Z Actualiser D	المن المن المن المن المن المن المن المن	
se 🙆 I	https://labo5/VDIPMonitor/realtim	e/current_events	jsp	✓
lin			VDIPMonitor	
ons hn	_	Hor	Collège St Exupéry	CASTE [Disconnec
				Back
<u> </u>	Events			- 5
Гуре	Time	Object	Value	<u>^</u>
Δ	28/08/2006 16:28:00	door	State changes: 0000009 Accumulated time : State 0 00d 00:01:43 State 1 00d 00:00:05	
0	28/08/2006 16:28:00	door	State changes: 0000009 Accumulated time : State 0 00d 00:01:43 State 1 00d 00:00:05	=
8	28/08/2006 16:27:59	door	State changes : 0000008 Accouncilated time : State 0 004 00:01:43 State 1 004 00:00:04	
<u>1</u>	28/08/2006 16:27:59	door	State changes : 0000008 Accumulated time : State 0 006 00:01:43 State 1 006 00:00:04	
1	28/08/2006 16:27:59	door	State changes : 0000008 Accumulated time : State 0 004 00:01:43 State 1 004 00:00:04	
Δ	28/08/2006 16:27:46	door	State changes : 0000007 Accumulated time : State 0 004 00:01:30 State 1 004 00:00:04	
0	28/08/2006 16:27:46	door	State changes : 0000007 Accumulated time : State 0 004 00:01:30 State 1 004 00:00:04	
8	28/08/2006 16:27:45	door	State changes : 0000006 Accumulated time : State 0 004 00:01:30 State 1 004 00:00:03	
1	28/08/2006 16:27:45	door	State changes : 0000006 Accumulated time : State 0 004 00:01:30 State 1 004 00:00:03	
1	28/08/2006 16:27:45	door	State changes : 0000006 Accumulated time : State 0 004 00:01:30 State 1 004 00:00:03	
Δ	28/08/2006 16:27:33	door	State changes: 0000005 Accouncilated time : State 0 004 00:01:18 State 1 004 00:00:03	
			State changes : 0000005	

• This page displays the current events with the following details:

- Kind of events with the following pictorials:
  - 🔮 : Alarm (default appearance)
  - 😣 : Alarm (default disappearance)
  - 📤 : Default appearance
  - 🔟 : State 0 is reached
  - 1 : State 1 is reached
  - 2 : State 2 is reached
  - 3 : State 3 is reached
  - 🗉 : State 4 is reached
  - 🕴 : User event
  - Event timestamp (date and time),
- Element concerned by the event (point name or user),
- Associated values:
  - Number of state changes
  - Accumulated time for each state,
- □ This page is updated periodically depending on events occurring on the material device interfaces.
- > This page is reachable from the following menu <u>*Real Time/Events*</u>

#### Synoptic view

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**u** This page displays a synoptic view containing points or branch points.

- Synoptics contain points within geographical or logical areas.
  - The synoptics are displayed as an image representative of the symbolized entity (background image),
  - The navigation between synoptics can be done with branch points associated to an image or transparent. In the last case, the user clicks a specific area of the screen to switch to another synoptic.
  - Points can be symbolized by an image representative of its current state. This image is updates in real-time mode on the synoptic.
    - Depending of the configuration parameters, a state change can generate an icon modification, a sound effect or a new synoptic display.
    - An alarm generates a flashing effect of the associated icon with a red frame.
    - By clicking on a point (left or right mouse), it is possible to switch to another synoptic, to display an instruction in a popup window and then to acknowledge all the current alarms of the point, to perform materiel remote command, to display video popup window.
    - Branch points allow the user to navigate between synoptics. This action is done by clicking on the point.
- > This page is reachable from the following menu *<u>Real Time/Synoptic</u>*

#### VLC Video streaming recommendations

On the display of the video in popups or in the dedicated window, the VLC plugin is used. VLC plugin currently lacks strength and stability. To circumvent these problems, it will then focus on the following pairs:

- Internet Explorer / VLC 1.1.5
- Firefox or Chrome / VLC 2.0.6

#### Synoptic view + alarms

• This pages displays on the same view the synoptic and the current alarms

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# Recordings

#### Alarms

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	28/08/2006 16:34:55	door	dor opened			
	28/08/2006 16:34:54	door	dor opened			
	28/08/2006 16:34:52	door	dor opened			
	28/08/2006 16:34:50	door	dor opened			
	28/08/2006 16:34:49	door	dor opened			
	28/08/2006 16:34:44	door	dor opened			
	28/08/2006 16:29:46	door	dor opened			
	28/08/2006 16:27:59	door	dor opened		28/08/2006 16:29:38	john
	28/08/2006 16:27:45	door	dor opened	√	28/08/2006 16:29:38	john
	28/08/2006 16:27:32	door	dor opened	<b>∛</b>	28/08/2006 16:29:38	john
	28/08/2006 16:26:25	door	dor opened	<b>∛</b>	28/08/2006 16:26:42	john
	28/08/2006 16:26:12	door	dor opened		28/08/2006 16:26:42	john

- This page displays the alarm events recorded in the database with the following details:
  - Kind of alarm events with the following pictorials:
    - 🔯 : Alarm (default appearance)
    - 😣 : Alarm (default disappearance)
  - Default timestamp (date and time),
  - Point name,
  - State name,
  - Acknowledge state with the following pictorial if acknowledged  $\checkmark$ ,
  - Acknowledge date and time,
  - User who has acknowledge the alarm,
  - End alarm date and time,
- The list items are displayed depending of the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.

- > This page is reachable from the following menu *<u>Recordings/Alarms</u>*
- > To filter specific alarms, click <u>Filter...</u> link.

Filter alarms

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- This page shows the different filter criterion available for alarms. A filter criterion can be one of the following items:
  - Indifferent:
  - Equal:
  - Start with:
  - End with:
  - Contain:
  - Upper:
  - Upper or equal: specified date
  - Lower:
  - Lower or equal: specified date

no filtering criterion (used by default), parameter = value,

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parameter lower than the specified date parameter lower or equal than the

The alarm filtering associates all criterion with a logical AND operation.

Example:			
Timestamp	upper	01/06/2004 00:00:00	
End alarm time	lower	01/07/2004 00:00:00	
Sector	equal	West Sector	
The result of this sea	rch will be all the	alarms occurred in West sector in June 200	4.

- > This page is reachable by clicking on "Filter.." button in <u>Alarms list</u> page.
- > After search, the result will be displayed in the <u>Alarms list</u> page.

#### Defaults

Defaults recording - Mozilla Firefox			
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- This page displays the defaults events recorded in the database with the following details:
  - Default timestamp (date and time),
  - Point name,
  - State name,
- The list items are displayed depending of the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- This page is reachable from the following menu <u>Recordings/Defaults</u>
- > To filter specific defaults, click Filter... link.

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- This page shows the different filter criterion available for defaults. A filter criterion can be one of the following items:
  - Indifferent:
  - Equal:
  - Start with:
  - End with:
  - Contain:

no filtering criterion (used by default), parameter = value,

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- Upper:
- Upper or equal: specified date
- Lower:
- Lower or equal: specified date

parameter upper than the specified date parameter upper or equal than the

parameter lower than the specified date parameter lower or equal than the

The default filtering associates all criterion with a logical AND operation.

Example:		
Timestamp	upper	01/06/2004 00:00:00
Sector	equal	West Sector

- > This page is reachable by clicking on "Filter.." button in *Defaults list* page.
- > After search, the result will be displayed in the *Defaults list* page.

#### **Events**

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- This page displays the events recorded in the database with the following details:
   Kind of alarm events with the following pictorials:
  - Si Alarm (default appearance)
  - 🕺 : Alarm (default disappearance)
  - 😵 : End alarm
  - 📤 : Default appearance
  - 💧 : Default disappearance
  - 🔟 : State 0 is reached
  - 1 : State 1 is reached
  - 🖻 : State 2 is reached
  - 3 : State 3 is reached
    - 🕒 : State 4 is reached

.

- 🕴 : User event
- Event timestamp (date and time),
- Element concerned by the event (point name or user),
  - Associated values:
    - Number of state changes
    - Accumulated time for each state,
- □ Each column can be sorted in Ascending ▲ or Descending ▼ order by a click on the column header list.
- The list items are displayed depending of the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.

- > This page is reachable from the following menu <u>*Recordings/Events*</u>
- > To filter specific alarms, click <u>Filter...</u> link.

Filter events

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- This page shows the different filter criterion available for events. A filter criterion can be one of the following items:
  - Indifferent:
  - Equal:
  - Start with:
  - End with:
  - Contain:
  - Upper:
  - Upper or equal: specified date
  - Lower:
  - Lower or equal: specified date

no filtering criterion (used by default), parameter = value,

parameter starts with a specific value parameter ends with a specific value parameter contains a specific value parameter upper than the specified date parameter upper or equal than the

parameter lower than the specified date parameter lower or equal than the

The events filtering associates all criterion with a logical AND operation.

Example:			
Timestamp	upper	01/06/2004 00:00:00	
W// W//	Lower	01/07/2004 00:00:00	
Sector	equal	East Sector	
The result of this sea	arch will be all the	events occurred in East sector in June 2004	4.

➢ This page is reachable by clicking on "Filter.." button in <u>Events list</u> page.

> After search, the result will be displayed in the *Events list* page.

#### Values recording containers

Values recording containers list

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Compteur Parking Niveau 2					Value hi	story name $ riangleq$				
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- This page displays the values recording containers list with the following detail:
   Container name,
- □ Each column can be sorted in Ascending  $\triangleq$  or Descending  $\overline{\lor}$  order by clicking on the column header list.
- The list items are displayed depending of the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- This page is reachable from the following menu <u>Recordings/Values</u>
- > By clicking on the associated  $\square$  button, the user can view the <u>recorded value</u>.
- > All the point values can be saved in a file by using the  $\blacksquare$  button.
- > To clean a values container, click on imes button.

Recorded value			
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😈 Values history	Values Purge file		<i></i>
Value history name Park	king State		
Timestamp △	Point		Value
23/02/2006 14:13:5/	Parking	0	
23/02/2008 14:22:54	Parking Total: 2	0	
			H I
VDIPMonitor/history/values_history_L.jsp			🔒 🥑 Sites de confiance

- **□** This page displays the recorded values list in the database with the following details:
  - Record timestamp (date and time),
  - Associated point name,
  - Values at the record time.
- The list items are displayed depending of the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- ➤ This page is reachable by clicking on <sup>■</sup> button associated to a record container in the <u>Values recording containers list</u> page.

#### **C**ommunications

Communications recording

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							Back
📷 Communi	cations recordi	ng					
							Filter
No data							
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- This page displays the communication events recorded in the database with the following details:
  - Default timestamp (date and time),
  - Point name,
  - State name,
- □ Each column can be sorted in Ascending  $\triangleq$  or Descending  $\overline{\neg}$  order by clicking on the column header list.
- The list items are displayed depending of the number of rows by page to be displayed (see system.xml file configuration parameters). To access a particular page, you must click on the specific page number displayed on the list footer.
- > This page is reachable from the following menu *Recordings/Communication*
- > To filter specific communications, click <u>Filter...</u> link.

#### Purge files

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rm 20060824085631.xml 1	Alarms				default 200	5082509351	0.xml 2 De	faults		
					default 200	5082508444	5.xml 3 De	faults		
					default 200	5082416043	<u>6.xml</u> 9 De	faults		
					default 200	5082408563	<u>1.xml</u> 1 De	faults		
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ate 20060825164417.xml 2	States				log 2006082	5164418.xm	l 6 Events	s Log		
ate 20060825145143.xml 20	) States				log 2006082	5145144.xm	1 40 Even	ts Log		
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te 2006082446445.mm 9 te 2006082446845631.mm 1 te 20060824085631.mm 1	States				log 2006082	(4160437.xm	1 37 Events	: Log		

- This page allows the user to consult all application purge files with the following details:
  - Xml file name containing the date
  - Number of moves contained in the xml file
- □ The main page is divided in 4 parts:
  - 1. <u>Alarms purge files</u>: All acknowledged alarms are removed from the database and depending on the purge strategy stored in an xml file.
  - 2. **Defaults purge file**: All defaults are removed from the database and depending on the purge strategy stored in an xml file.
  - 3. <u>States purge files</u>: All states event alarm is removed from the database and depending on the purge strategy stored in an xml file.
  - 4. <u>All events purge files</u>: All acknowledges alarm is removed from the database and depending on the purge strategy stored in an xml file.

#### Purge file consultation with remove

Purge list/remove - Microsoft Internet Explorer								
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state 20060825145143.xml 🔲 20 States		log 20060825	5145144.xn	<u>nl</u> 🔲 40 E	vents Log			
state 20060825093511.xml 🔲 2 States		log_20060825	5093511.xn	nl 🔲 6 Ev	ents Log			
state 20060825084446.xml 🔲 4 States		log 20060829	5084446.xn	nl 🔲 12 E	vents Log			
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	1							
© 2006 Castel								v1.3.5
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- This page allows the user to consult and remove all move purge files with the following details :
  - 1. Xml file name containing the date
  - 2. Number of moves contained in the xml file
- By clicking on the xml file, the user can access to the content of the file. The language used for xml file is the CASTELSuperviseur default language ( see system.xml section)

# Actions

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2/04/2009 08:47:59	а	Point incl	usion/exclusion	inclusion	P1 Bis	
2/04/2009 08:47:57	а	Point incl	usion/exclusion	exclusion	P1 Bis	
2/04/2009 08:47:55	а	Point incl	usion/exclusion	inclusion	P1 Bis	
2/04/2009 08:47:51	а	Point incl	usion/exclusion	inclusion	P1 Bis	
2/04/2009 08:47:49	а	Point incl	usion/exclusion	exclusion	P1 Bis	
2/04/2009 08:47:48	а	Point incl	usion/exclusion	exclusion	P1 Bis	
2/04/2009 08:47:43	а	Point incl	usion/exclusion	inclusion	P1 Bis	
2/04/2009 08:47:21	а	Point incl	usion/exclusion	inclusion	P1 Bis	
2/04/2009 08:47:20	а	Point incl	usion/exclusion	exclusion	P1 Bis	
2/04/2009 08:47:14	a	Point incl	usion/exclusion	inclusion	P1 Bis	
2/04/2009 08:47:11	a	Point incl	usion/exclusion	exclusion	P1 Bis	
				1		

- **D** This page allows the user to consult all user actions. The different actions can be :
  - 1. Application access
  - 2. Point Inclusion/Exclusion
  - 3. Alarm acknowledge
  - 4. Remote command

#### **Points**

## Raw logical point list

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🔶 b 💋	Home 🚽 🗸 Real time	🔶 Recordings	🚽 Points	🔶 Com	imands	🚽 Data	<b>_</b>	[Disconnect]
👸 Raw logical	point list		( 2 Elts )				Filter	<b>3</b>
Point name 🛆	Excluded	Current state	Exclusion scheduled	Exclusion type	Exclusion	start date	Exclusion	end date
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E1 P15	<b>v</b>	Etat 6	<b>v</b>	Unlimited				
			( 2 Elts )					

# List of points concerned by exclusion

This page displays all points concerned by exclusion :

Configured as to be excluded

Or

Still excluded although no more configured as to be excluded (case of material that is not updated)

CASTEL - VDIPMon	tor - List of points concerned	by e				a - 🖶 -	Page 🔹	💮 Outils
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			CASTEL					CAST
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List of points c	oncerned by exclu	sion					Filter	Ba
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# Commands

#### Command a sector or a category

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s	South Area												Force off	
)   v	West Area												Stop forcing	
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- This page allows the user to remotely command elements of the VDIP system grouped by sector or categories.
- □ It displays the categories and sectors list and the commands available.
- To perform commands:
  - 1. Select the sector
  - 2. Select the category
  - 3. Then click on the command
- > This page is reachable from the following menu *<u>Commands/Sectors and Categories</u>*

# Command a point

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Counter	]	door									Start					
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- This page allows the user to remotely command the material device associated to a point.
- □ It displays the point's list and the commands available.
- □ To perform commands:
  - 1. Select the point
  - 2. Select the category
  - 3. Then click on the command
- > This page is reachable from the following menu <u>*Commands/Points*</u>

# **Application data management**

# Save and restore configuration data

• The following page allows the user to backup the database :

CASTEL - VDIPMonitor - Data - Backup - Windows Internet Expl	orer	
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gb Home - Rea	il time 🗸 Recordings 🗸 Comm	ands Jata Jata
		Back
Data - Backup		<b>a</b>
	Data - Backup	22
Please enter file name with .backup suffix		
VDIPMonitor_2-4-025022008_145706.backup		
		Data - Backup
© 2008 Castel		v2.4.0
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A confirmation box is then displayed



The following page indicate backup has succeeded.

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gb Home	CNR Lyon     Real time     Recordings	🖕 Commands 📃	Data 🖵	CASTEL [Disconnect]
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🔊 Data - Backup				a 🗐
	SUCCESS : The configuration data have be	en successfully saved		
2008 Castel				v2.4.0
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CASTEL SA – ZI St Lambert 49412 SAUMUR France • The following page allows the user to restore the database :

CASTEL - VDIPMonitor - Data - Restore - Windows Int	ernet Explorer					
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© 2008 Castel						v2.4.0
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> These pages are reachable from the following menu <u>Data/Backup</u> and <u>Data/Restore</u>

#### Data reload

• This feature allows the user to reload a new configuration.