SD-View 2000

Release 2.0 July 2006

## **Supervision System**

User Manual Getting Started with SD-View 2000



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## 1. SD-View 2000 Setup

The aim of this Help is to lead the user to a proper installation of SD-View 2000, to the configuration of the serial ports and of the protection devices. For a correct installation of the product, the user has to follow the steps shown in this paragraph.

#### Warning:

It is mandatory to remove a previous version of SD-View 2000 before proceeding with a new installation. The removing procedure will delete all your current data so it is useful to backup them before continuing.

#### How to install SD-View 2000

#### 1st Step

Insert the SD-View 2000 CD and wait for the Installation Launcher of ABB to auto-start. If the auto-run function is not active, proceed as follows:

- Click "My Computer"
- Click the CD-ROM unit where the SD-View 2000 CD has been inserted .
- Click to run the ABB CD Installation Launcher.

Select "SD-View 2000" and click "Next" to proceed.

ABB CD Installation Launcher	
So-TestBus SD-View 2000	
Explore Disk Cancel	



This is the first installation screenshot :

#### 2nd Step

Before proceeding with the installation, read the license agreement and click "YES" to accept.

D-View 2000 - InstallShield Wizard		2
License Agreement Please read the following license agree	ment carefully.	ABB
Press the PAGE DOWN key to see the	rest of the agreement.	
SD-View 2000 supervision software for Demo version Warnings ABB SACE S.p.A. can only be held res professionally correct manner and in co Even in the case of certain, verified pr for repairing the program within a reaso ABB SACE S.p.A. cannot be held liable or third parties as a result of use of the Do you accept all the terms of the prec	ABB SACE S.p.A. Modbu: ponsible before the user if impliance with all warnings gram defects, ABB SACE rable amount of time. s for direct or indirect dama program or lack thereof or ading License Agreement?	s units
select No, the setup will close. To inst this agreement. InstallShield	all SD-View 2000, you mus	t accept
	< Back	Yes No

#### 3rd Step

Insert "User Name" and "Company Name" in the default fields and click "Next".

D-View 2000 - I	nstallShield Wizard			×
Customer Info Please enter yo	m <b>ation</b> our information.			RR
User Name:				
ABB				
Company Nam	e.			
ABB				
Install this appl	ication for:			
	Anyone who use	es this computer (all us	ers)	
	C Only for me (ABB	3)		
nstallShield				
		< Back	Next>	Cancel

#### 4th Step

Click "Next" to accept the default folder.

etup will install SD-View 2000 in the fol	llowing folder.	
o install to this folder, click Next. To ins mother folder.	stall to a different folder, click Browse an	d select
Destination Folder		
Destination Folder C:\Program Files\ABB Industrial IT\SE	D-View 2000\	Browse

Otherwise click "Browse", if the installation of "SD-View 2000" to a different folder from the default one is desired.

C:\Prog	ram Files\ABB Industrial IT\SD-View 2000	
Directoria	es:	

Click "OK" to choose a new path and later "Next" to proceed with the installation.

5D-View 2000 - InstallShield Wizard	×
Choose Destination Location Select folder where setup will install files	ABB
Setup will install SD-View 2000 in the fo	llowing folder.
To install to this folder, click Next. To ins another folder.	stall to a different folder, click Browse and select
Destination Folder D:\Program Files	Browse
nstallShield	
	< Back Next > Cancel

The language among the two available, Italian and English, is automatically set by the installation program according to the settings of the PC.

#### 5th Step

The moving bar indicates the status of the installation procedure. Wait for the installation to end and click "Finish" to complete the set-up of SD-View 2000. Click "Finish" to restart the system.

## 2. How to get the license

In order to proceed with the registration of the product, it is necessary to purchase the licensed version and send the identification code of the USB key to the following e-mail address: SDView2000License@it.abb. com. ABB SACE will send the ".dat" license file which has to be copied in the in the following folder "\ABB Industrial IT\SD-View 2000".

#### 1st Step

Follow the path Start ->Programs ->ABB->SD-View 2000->SD-View 2000 Application ->System Setup, click the "System Setup" icon to pop the following screenshot up:



#### 2nd Step

Click "Client and Server" and then activate the license registration screenshot by selecting "License Entry":

Cent and Server     Contra de Server     Contex and Server	Add From File Validate
	Add From File Validate
Licensed Quarkity:         1           Software Key:         9537ed75530H1914H41c94d1caa0099         Number of tags         9           Option Suring:         15000050000000         Process Control for Account for	Test Checkour
Software Key:         SST#d75530/H1914441c94d1caa6999         Feature         10           Software Key:         8537ed75530/H1914441c94d1caa6999         Mamber of Users         0           Option String:         150000050000000         Process Cotat/of CH in N         N           Modime ID:         KEYSENTINELI3C/264430845C00028         Core Ma A(RW)         N           Modime ID:         KEYSENTINELI3C/264430845C00028         Core Server A(A (RW)         N	
Software Key:         9537ed/7553041914441;04d1cad6099         Number of Tags         Software Key:         950           Option Suring:         150000050000000         Process Control for Ar 2000 F         Process Control for Ar 2000 F         Process Control for Ar 2000 F           Machine IID:         KEYSEVTINEL33C/FE4538345C000128         Of C-Server EA (PW)         No	Value 🔺
Option Suring:         150000050000000         Process Costral for Actions F was compared to provide the compared to providet to provide the compared to providet to provide the comp	0 5000
Machine ID: KEYSENTINEL33C7E44338345C0D0128 OPC Server DA (RW) No OPC Server AE NO OPC Server AE NO	JF NO NO
DOF N	NO NO NO
Available IDs 0040AA494488 Holored Tags 50 0000cd/3910199 API 50 0004238CF12A Specific API NK Specific API NK	NO

#### 3rd Step

Connect the USB-key license to the PC, click the "Add From File" button to load the license file. It is possible to choose the correct path of the license file through a pop-up menu that will be displayed.

Client and Server							2
General Setup     License Entry		Feature:	Basic Features	1	•		Add From File
Build Data Base		Version:	3.1				Validate
Registry Save Configuration	Select the Fil	e with Licer	ises File		? ×	11	Seve
	Look in:	SD-View 20	00	- + 🗈 (	* 🗊 •	۲	Test Checkout
	File name:	000128-222.	DAT		Open	rol for AC800F DA (RO) DA (RW) AE HDA	YES YES YES YES YES YES
	Files of type:	Data Files	(*.dət)	2	Cancel	B	30000 YES
						μ	YES •

Select the license file and click "Open". Automatically all the form fields will be filled in according to the file loaded, as shown in the following screenshot.

#### 4th Step

To enable the license it is necessary to validate it, to save the license settings and then to test the settings. All the mentioned operations can be enabled clicking these buttons:

- First the "Validate" button;
- Then the "Save" button;
- At the end the "Test Checkout" button.

#### 5th Step

Select "Drivers" from the "Feature" pop-up menu and repeat the 3rd e 4th step.

#### 6th Step

Close the "System Setup" application.

## 3. SD-TestBus2 Setup

Before proceeding with the SD-View 2000 configuration, the user has to scan the network status. This operation is necessary to avoid problems during the communication among SD-View 2000 and field devices.

SD-TestBus2 is the product that makes it possible to verify the communication and the connections among a Modbus Master and ABB SACE field devices. The necessary steps for a correct setup of this application are listed in the following:

#### 1st Step

Insert the SD-View 2000 and wait for the Installation Launcher of ABB to auto-start. If the auto-run function is not active, proceed as follows:

- Click "My Computer"
- Click the CD-ROM unit where the SD-View 2000 CD has been inserted
- Click Daucher.exe to run the ABB CD Installation Launcher.

🗟 20060407 (E:)		
File Edit View Favorites Tools	Help	
😓 Back 🔹 🔿 → 🔂 🏝 🊈	🔵 Search 🛛 🔂 Folder	s 🎯 🖺 🖳 🗙 👋
Address 🔊 E:\		• @Go
20060407 (E:) Select an item to view its description.	SD-TestBus SD-View 2000 Autorun.inf Launcher.exe	
Capacity: 212 MB		
Used: 212 MB		
Free: 0 bytes		
4 object(s)	324 KB	Wy Computer

Select "SD-TestBus2" and click "Next" to proceed. This is the first installation screenshot :

ABB CD Installation Launcher	Select applications
	SD-TestBus SD-View 2000
Explore Disk	Next> Cancel

#### 2nd Step

Before proceeding with the installation, read the license agreement and click "YES" to accept.



#### 3rd Step

Click "Next" to accept the default folder.

5D-TestBus		
icense Agreemen	t	ABI
ease take a moment to read ti gree", then "Next", Otherwise	ne license agreement now. If click "Cancel".	you accept the terms below, click "I
LICENSE AGREEMENT		
This software is in free and exclu utilization with	of ABB SACE's pro sive use for its ABB devices.	perty and is granted
Its duplication a authorized by ABE	nd its distributi SACE, is forbidd	on, not previously Men.
C I Do Not Agree		

#### 4th Step

Otherwise click "Browse", if the installation of "SD-TestBus2" to a different folder from the default one is desired

봉 SD-TestBus 2	
Select Installation Folder	BB
The installer will install SD-TestBus 2 to the following folder.	
To install in this folder, click "Next". To install to a different folder, enter it "Browse".	below or click
<u>E</u> older:	
C:\Program Files\ABB\SD-TestBus 2\	Browse
	Disk Cost
Install SD-TestBus 2 for yourself, or for anyone who uses this con	mputer:
○ <u>E</u> veryone	
Cancel < Back	Next >

ABB SACE

Click "OK" to choose a new path and later "Next" to proceed with the installation

5D-1	estBus Browse for	Folder			×	L
Sel	Browse:	SD-TestB	us		- 22	B
Thei	English					
'o in						e''.
Eo						
C						
Ins	Folder:	C:\Program File	s\ABB\SD-TestBus\	Ŭ.		
¢				OK	Cancel	
(**	วนระเพีย					1
			Cancel	< <u>B</u> ack	Next	>

#### 5th Step

Select one of the two available languages and click "Next" to proceed.

🖨 SD-TestBus 2	
Language selection	ABB
Please select your language	
English	
O Italiano	
	Cancel < <u>B</u> ack <u>N</u> ext >

ABB SACE

**3**/4

#### 6th Step

Click "Next" to confirm the installation.

🛿 SD-TestBus 2		
Confirm Installation		ABB
The installer is ready to install SD- Click "Next" to start the installation	TestBus 2 on your compute 1.	f.,
	Cancel	Back <u>N</u> ext >

#### 7th Step

The status of the set-up process is indicated by the "Progress Bar".



ABB SACE

#### 8th Step

Click "Close" to finish the installation procedure.

🛿 SD-TestBus 2			
Installation Complete			BB
SD-TestBus 2 has been successful	ly installed.		
Click "Close" to exit.			
	Cancel	< <u>B</u> ack	<u>C</u> lose

## 4. Starting SD-TestBus2

#### **IMPORTANT :**

It is useful to read this section after having installed SD-TestBus2

In the following steps it will be described how to start the scanning of the network and how to detect the devices or any communication problem. The properties of the product will not be fully described here but in a specific manual.

#### 1st Step

To start "SD-TestBus2" click its icon on the desktop.

#### 2nd Step

Click "Bus" in the menu and choose "Scan".



A pop-up menu will be displayed to allow the user to select the settings for the scanning.

This is the information you can set:

- Serial Port;
- Communication Speed 9600/19200 for ABB SACE devices;
- Even Parity for ABB SACE devices;
- Sniff Timeout (ms) with the possibility to find the Master;
- Timeout (ms);
- Modbus address/addresses selection field;
- 1..31 and 1..247 Modbus address interval buttons;
- "Restore" button to reset the settings in the address field;
- "OK" button to start scanning;

mmunication Paramete	rs		
COM Port		Addre	esses
1 A C C C C C C C C C C C C C C C C C C	1 2 3 4		
Baudrate	5		
2400	7		
9600	9		
38400	10 11 12		
Parity	13		
EVENPARITY ODDPARITY NOPARITY	14 15 16 17		
	19		
nitt Timeout (ms)	20		-
	131	1247	Reset
(imeout (ms)	🗖 Scan F	Reserved A	ddresses
100 🖃			ОК

#### 3rd Step

After selecting the scanning settings, click "OK" to start the network scanning. As it starts, the status of the scanning will be indicated by a percent increase bar, as shown here.

It is possible to stop the scanning process clicking the "STOP\_SCAN!" button.

ABB SD-TestBu	is 2.1	
STOP_SCAN!		
ैंग Modbus		<u>*</u>
	Scan Progress 25.4 %	
	Device(s) Found	
I		

If the scanning is over and no device has been found, a pop-up menu will indicate if there are problems with the RS-232 cable.

Modbus		
	Device List	
	Device(s) Found	
		×
	Device(s) not found! Maybe RS-232 cable not connected?	



#### 4th Step

If during the scanning process some devices are connected, they are found with their main features.

TOP_SCAN!					
PR112 @ 1 PR113 @ 2 PR222 @ 3	Scan	Progr	ess 21	.8 %	
			Device(s) Fo	und	
			PR112 @	1	
	COM port	Address	Baudrate	Parity Stop bit(	s) Addressing type
	1	1	19200	EVEN 1	STANDARD
			PR113 @	2	
	COM port	Address	Baudrate	Parity Stop bit(	s) Addressing type
	1	2	19200	EVEN 1	STANDARD
			PR222 @	3	
	COM port	Address	Baudrate	Parity Stop bit(	s) Addressing type
	1	3	19200	EVEN 1	STANDARD
			PR222 @	4	
	COM port	Address	Baudrate	Parity Stop bit(	s) Addressing type

The reported information for each found device is :

- PR212 @ 3 indicating the PR212 type device and its 3 Modbus address;
- Serial port;
- Modbus address;
- Communication speed;
- Parity;
- Stop bits;
- · Addressing type;

#### 5th Step

At the end of the scanning process the complete list of the found devices will be displayed.

File Bus Windows To	ols Password Li	anguage Help				
T Modbus	Devi	ce List				
+ ODX PR222 @ 3	Device(s) Found					
• OX PR212 @ 7			PR112 @	1		
	COM port	Address	Baudrate	Parity	Stop bit(s)	Addressing type
	1	1	19200	EVEN	1	STANDARD
			PR113 @	2		
	COM port	Address	Baudrate	Parity	Stop bit(s)	Addressing type
	1	2	19200	EVEN	1	STANDARD
			PR222 @	3		
	COM port	Address	Baudrate	Parity	Stop bit(s)	Addressing type
	1	3	19200	EVEN	1	STANDARD
			PR222 @	4		
	COM port	Address	Baudrate	Parity	Stop bit(s)	Addressing type
	1	4	19200	EVEN	1	STANDARD

With the side navigation tree it's possible to work dynamically on the device options and have more information.

## 5. Starting SD-View 2000 Configurator

The aim of this online Help is to give the necessary information for a correct and simple use of SD-View 2000 Configurator. From now on, we will use the term Configurator as a synonym of SD-View 2000 Configurator.

The configuration process of the plant, with the help of the Configurator, is the first step for a correct use of SD-View 2000 system. A wrong setting during the configuration process can compromise the communication with the configured units of the plant.

In order to start the Configurator select Start->Programs->ABB - >SD-View 2000->SD-View 2000 Configurator

What is possible to do with the Configurator :

- Unit configuration (ex. Emax, Tmax, ...)
- Serial Port configuration (ex. COM1, COM2, ...)
- · Delete every single unit or serial port
- Delete the entire configuration
- · Import or export an entire configuration
- · Access to the online Help
- · Access to Display Builder

#### The advantages of the Configurator

SD-View 2000 **Configurator** is a powerful tool for simplifying the plant engineering process.

It guarantees:

- · Ease of use thanks to an intuitive graphic interface
- Support for system upgrade and maintenance
- Time and cost reduction in plant system installation
- Native support for a wide range of ABB products
- Easily upgradeable to new products
- Strong integration with SD-TestBus2

## **Configurator User Interface**

The user interface for all the configuration operations is shown in the following screenshot:



The user interface is divided in two frames:

- The left frame is used for navigating through the configured items
- The right frame is used for accessing item details

The menu has the following entries:

#### Project Menu

📌 SD-Vi	ew 2000 Configurator - COM1	_ 🗆 🗵
Project	Command View Help	
2	😂 🔍 🗶 🖆 🗁 📴 🏦 🗰 🕍 💡	

- · Build: saves the created configuration, serial ports and units
- Import: imports a configuration from a xml file
- Export: exports the configuration to a xml file
- Exit: exits from the application.

#### **Command Menu**



- New Port: creates a new serial port for the communication
- New Unit: creates a new unit
- Delete: deletes the selected item (unit, port or entire configuration)
- Logon/Logoff: used for user identification

#### View Menu



- Toolbar: enables/disables the toolbar;
- Status Bar: enables/disables the status bar;
- · Property: allows to view the details about serial port or unit

#### Help Menu

📌 SD-Yiew 2000 Configurator - COM1	
Project Command View Help	
🖻 🖻 🕸 🔍 🗙 📴 🚭 🏊 計畫 蕭 🙀 💡	

- SD-View 2000 Configurator Help: access to this help
- About: information about SD-View 2000 Configurator version

The toolbar has the following entries:

#### New Port icon

📌 SD-Yiew 2000 Configurator - COM1	
Project Command View Help	

• New Port: displays the dialog for the creation of a new serial port

#### New Unit icon

📌 SD-Yiew 2000 Configurator - COM1	<u>×</u>
Project Command View Help	
🖻 💽 🤤 🔍 🗙 🖆 🗁 🗁 🗄 🗰 🕍	?

• New Unit: displays the dialog for the creation of a new unit

#### **Build icon**

<b>≁</b> SD-¥iew 2000 C	onfigurator - COM1	
Project Command	View Help	
2 2 💭 🔍	🗙 🖆 🗁 🕒 🏦 🏥 🏢 🐒	

• Build: saves and build the configuration created by the user

#### Logon/Logoff icon

📌 SD-View 2000 Configurator - COM1	_ 🗆 🗙
Project Command View Help	
🖻 🖻 🕸 🥙 🗙 🖆 🗁 📴 🗄 🗰 🗰 🙀 💡	

 Logon/Logoff : allows user identification. You need the highest permission level for executing configuration actions

#### Delete icon

SD-View 2000 Configurator - COM1	_ 🗆 🗵
Project Command View Help	
2 2 4 4 🗙 🕾 🗁 🖳 🤃 🏥 🏛 🙀 ?	

• Delete: deletes the selected item (unit, port or entire configuration)

#### Serial Port or Unit Property icon

PSD-View 2000 Configurator - COM1 Project Command View Help	
Project Command View Help	
🗹 🖸 😂 🗙 🗙 🚰 🎒 🚰 🤃 🏥 🏢 🦹	

• Property: displays the details of the serial port or unit

#### View Layout icons

FSD-View 2000 Configurator - COM1	
Project Command View Help	
🖻 🖻 😂 🔍 🗙 🖆 🚭 🎦 🗄 🏢	M ?

• View Layout: allows to modify the view layout, in the right frame, of the configured items

#### **Display Builder icon**



• **Display Builder:** starts the Display Builder application for the creation of the synoptic pages

#### Help icon



• Configurator Help: displays this help

## 5.1 Serial Port Configuration

It is mandatory to correctly configure the serial port used for the communication among the SD-View 2000 and the Units

The steps for the configuration of a serial port are listed here.

#### 1st Step

Start the Configurator



#### 2nd Step

Click the "Logon" button to log in <sup>Q</sup>.

**IMPORTANT:** The user can configure and delete serial ports and units only if he/she has the appropriate access rights.

#### 3rd Step

Click on the "New Port" button, 🗭 a pop-up menu will be displayed. It's possible to select from one of the available ports with the pull down menu (ex. COM1, COM2, ..., COM8).

5D-View 2000 Co	nfigurator	
sject Command '	/iew Help	
3 🗷 👋 🔍 :	× 🖻 🖶 🕒 🗄 🏛 🗰 🔛 🎖	
🚠 Plant		
1	New Port	×
	Port name COM1   Enabled	
	Advanced >> OK Cancel	Help
3. <del>.</del>	1	
6 C	J	

#### 4th Step

Once the serial port is selected, for example COM1, it's necessary to proceed setting its communication parameters.

- Click "Enabled" Checkbox to enable the serial port;
- Click "Advanced" to set the following options :
  - Baud rate
  - Data bits
  - Parity
  - Stop bits

🕖 New Port					×
Port name	COM1		Enabled	•	
Advanced >>	OK	Cance		Help	

Port name	COM1	•	Enabled	<b>v</b>
<< Basic	OK	c	ancel	Help
Commu	nication Opt	ions		
Baud r	ate	19200	-	
Data B	its	8	•	
Parity		Even	-	
Stop B	its	1	-	
Flow Co	ontrol			
Enable	DSR 🔽	Ena	able CTS 🛛 🗖	1
RTS o	lelay before	sending 0	s	
RTS	lelay after se	nding 0	s	10
Connec	tion Policy -			
Retrie	s	0		
Reco	pert Delau	0	200	

• Click "OK" to finish.

The serial port has been configured, the relevant icon will be added in the Configurator window.

📌 SD-View 2000 Configural	or - Plant	
Project Command View He	p	
🖻 🛯 🐡 🔍 🗙 😭	🕹 🍡 🗄 🏥 🇰 🔛 🤻	
COM1	Сомі	
Ready	- ( <b>p</b> ).	11.

#### 5th Step

Click the "Build" button, to compile and save the configured serial port. When the operations are over, a Pop-up menu will be displayed informing the configuration has been properly saved.



## **Deleting a Serial Port**

The steps to delete a previously configured serial port are listed here.

Click the "Logon" button to log in 🧠.

**IMPORTANT :** The user can configure and delete serial ports and units only if he/she has the appropriate access rights.

#### 1st Step

Choose the serial port to eliminate from the **configuration** and click on the "Delete" X button.



#### 2nd Step

A pop-up menu will be displayed to confirm that the configured serial port will be deleted.



If the deleting operations are successful, this is the pop-up that will be displayed:



**WARNING:** If you delete a serial port all the configured Units connected to such port are eliminated from the configuration

#### 3rd Step

Close the Configurator.

## 5.2 Unit Configuration

**IMPORTANT :** Before reading this help page, for the configuration of a single unit, it is necessary to read the page about the configuration of the serial port.

After the correct configuration at least of a serial port, it's possible to configure one or more units that will communicate with SD-View 2000.

The necessary steps for a correct configuration of a single unit are listed here. They are the same in the case of the configuration of more units.

#### 1st Step

Click on the "Logon" button 🔍 to log in .

**IMPORTANT :** The user can configure and delete serial ports and units only if he/she has the appropriate access rights.

#### 2nd Step

Click on the icon of COM1 port, the "New Unit" button will be displayed.



#### 3rd Step

Jnit Name						
xtended Unit Name						
Part	COM1	•				
Address	1					
Jnit Type					•	
evice Type				 _	•	
iubunit Name 1						
iubunit Name 2						
witchboard Name					•	

Click on the "New Unit" button **()**, a pop-up menu will be displayed.

#### 4th Step

A single Unit is configured using the following menu.

#### Unit Name

- The name of the Unit must comply with these rules :
  - Maximum extension of 6 characters
  - The accepted characters are numbers, letters, "-" and "\_"
  - Special characters like "<", ">", "/" are not accepted

#### **Extended Unit Name**

- The extended Unit name must comply with the same rules of the Unit Name field :
  - Maximum extension of 80 characters
  - The accepted characters are numbers, letters, "-", "\_", "(", ")" and the space
  - Special characters like "<", ">" , "/" are not accepted.

#### Port

 It reports the name of the serial port for which the unit is being configured.

#### Modbus Address

- The numerical value of the following field must comply with these rules:
  - Value between 1 and 247
  - It's not allowed to have two units with the same value in the same port.

#### Unit Type

It enables to choose the switchboard type (Emax, Isomax, Tmax etc.).

#### **Device Type**

 It enables to choose the template of the protection device according to the chosen Unit Type field.

#### Subunit Name 1 and Subunit Name 2

- It enables to set the name of the subunits according to the type of the chosen AC31.
  - Maximum extension of 40 characters
  - The accepted characters are numbers, letters, "-", "\_", "(", ")" and the space
  - Special characters like "<", ">" , "/" are not accepted.

#### Switchboard Name

- It enables to set the name of the switchboard to which the unit belongs or to set the name of an already existing switchboard.
  - Maximum extension of 40 characters
  - The accepted characters are numbers, letters, "-" and "\_"
  - Special characters like "<", ">", "/" are not accepted.

After having configured the Unit, the **Configurator** will appear as follows:

📌 SD-View 2000 Configura	tor - COM1	
Project Command View H	alp	
🖻 🖻 😂 🔍 🗙 😭	🗁 🏊 🗄 🏥 🏢 🙀 🎖	
E ∰ Plant ⊕ 🔊 COM1	(001) PR113	
Ready		

#### 5th Step

Click the "Build" button 💭 to build and save the configured Unit. When the operations are over, a pop-up menu will be displayed to confirm that the configuration has been properly saved.

#### Deleting a unit

The necessary steps to delete a previously configured Unit are listed here.

#### 1st Step

Click the "Logon" button 🔍 to log in .

**IMPORTANT :** The user can configure and delete serial ports and Units only if he/she has the appropriate access rights.

#### 2nd Step

Suppose to start with a Unit already present on the COM1 serial port.

Click on the icon of the Unit. The "Delete" X button will be enabled.



#### 3rd Step

Click on the "Delete" button  $\mathbf{X}$ , a pop-up menu will be displayed. Click on 'Yes' to delete the Unit.

SD-View	2000 Configurator		×
⚠	Sei sicuro di voler cancel	lare permanentemente	e l'unit PR113?
	Yes	No	

If the deleting operations is successful, this pop-up will be displayed:



#### 4th Step

Close the Configurator

Introduction

# 6. SD-View 2000 Configurator Plug-in for SD-TestBus2

## Introduction

**SD-View 2000 Configurator Plug-in** for SD-TestBus2 is an application that allows to use the information got from a SD-TestBus2 scan process for configuring **SD-View 2000**.

This will reduce the configuration time and make the engineering process easier, more consistent and less error-prone.

Normally, the configuration engineer is required to use SD-View 2000 Configurator for configuring SD-View 2000. This is the main and most flexible procedure, but it requires to manually introduce configuration data. The plug-in can be seen as a simplified version of SD-View 2000 Configurator, where most of the configuration data is taken from SD-Test-Bus2.

#### Main features

- Easy access from SD-TestBus2
- · Multi-ports management support
- Incremental configuration building starting from existing SD-View 2000 configuration
- · Automatic management of the following port parameters:
  - Port name
  - Baud rate
  - Parity
  - Data bits
  - Stop bits

#### and the following unit parameters:

- Device type
- Modbus address

Introduction

## • Suggested default values, eventually editable by the user, for the following port parameters:

- Number of reconnection retries
- Reconnection delay

#### and the following unit parameters:

- Unit name
- Unit extended name
- Unit type
- Switchboard name
- · Support for user identification and privilege checking

**SD-View 2000 Configurator Plug-in** for **SD-TestBus2** can be used even when a previous **SD-View 2000** configuration exists. The plug-in is able to determine whether the information found by SD-TesBus2 are in conflict with what previously configured in SD-View 2000. If this is the case, the user will be alerted.

The plug-in is based on **SD-View 2000 Configurator** and it requires **SD-View 2000** to be installed on the same computer where SD-TestBus2 is running.

# 6.1 SD-View 2000 Configurator Plug-in for SD-TestBus2 - User's Manual

#### Launching the plug-in

**SD-View 2000 Configurator Plug-in** for SD-TestBus2 is executed from SD-TestBus2, go to "Tools --> SD-View 2000 Configurator Plug-in".

The plug-in is normally executed in two cases:

🗑 ABB SD-TestBus	2.1					<u> </u>
File Bus Finestre	Strumenti Parola chiave	Lingua Aiuto				
T Modbus	SD-View 2000 Configur	ator				
OX PR123/P @ 3     OX PR222 @ 247     OX PR123/P @ 1	Lista c	lispositivi				
			Dispositivo(i) Trovato(	i)		
			PR123/P @ 3			
	Porta COM	Indirizzo	Velocità	Parità	Numero Bit Stop	Tipo Indirizzamente
	1	3	19200	PARI	1	STANDARD
			PR222 @ 247			
	Porta COM	Indirizzo	Velocità	Parità	Numero Bit Stop	Tipo Indirizzamente
	1	247	19200	PARI	1	STANDARD
			PR123/P @ 1			

- After a SD-TestBus2 on-line scan process ("Bus --> Scan")
- After loading an off-line device configuration ("File --> Open Device List")

See SD-TestBus2 documentation for more information.

## User identification and privilege checking

For SD-View 2000 Plug-in for SD-TestBus2 use the same user identification procedure as in SD-View 2000. In particular, you must have SD-View 2000 System Manager privileges for executing the plug-in. Note that User Name and Password may be different from SD-Test-Bus2 ones. Refer to **SD-View 2000** and **SD-View 2000 Configurator** documentation for more details.

Licor Norma	-	
User manie:		
Password:		
OK	Canad	- 1

#### Main layout

SD-View 2000 Configurator Plug-in for SD-TestBus2 has an user interface divided into 3 parts:

8 17010	- Port			
PR113@1	Port Name:	COM1		
- PR113@3	Baud Rate:	19200	Parity:	EVEN
PR212 @ 7	Data Bits:	8	Stop Bits:	1
COM2 PR222 @ 1 PR222 @ 2 PR222 @ 3	Reconnection Retries:	3 📩	Reconnection Delay: (seconds)	60 📩
₽- <i>\$</i> <sup>®</sup> com4 <b>1</b>			2	
	Start	Cancel	Help	
		3		

- 1. Navigation Tree area. Used for selecting one of the ports/units found by SD-TestBus2
- 2. **Port/Unit configuration area.** Used for reading or writing the parameters of port/device currently selected
- Control area. Used for beginning the SD-View 2000 configuration process ("Start"), exiting the plug-in execution ("Cancel") or viewing this help ("Help")

#### Port Configuration

Port Port Name:	COM1		
Baud Rate:	19200	Parity:	EVEN
Data Bits:	8	Stop Bits:	1
Reconnection Retrie	\$; 3	Reconnection Delay: (seconds)	60 ÷

- Reconnection Retries. Identifies how many times SD-View 2000 should try to send queries to a given unit even if the unit doesn't answer (Timeout error). Values allowed are integers ranging from 1 to 6. The plug-in suggests a default value.
- **Reconnection Delay.** Identifies how many seconds SD-View 2000 should wait before reattempting to send queries to an unit that resulted unconnected. Values allowed are integers ranging from 1 to 300. The plug-in suggests a default value.

#### Unit Configuration

Unit Unit Name:	U1_1	
Unit Extended Name:	U1_1 WITH PR113	
Unit Type:	Emax	•
Device Type:	PR113	<b>*</b>
Modbus Address:	Port Name: COM1	
Switchboard Name:	SWITCHBOARD	•

- Unit Name. dentifies the unit name. Maximum number of characters allowed: 6. Characters allowed: letters, numbers and '\_' (underscore). Note that the unit name should be unique: no other units, even connected to different ports, should have the same Unit Name. The plug-in suggests a default value: Uxx\_nn, where xx indicates the port number and nn indicates the slave address.
- Unit Extended Name. Identifies the unit extended name. Maximum number of characters allowed: 80. Characters allowed: letters, numbers, '-' (underscore) and space. The plug-in suggests a default value.
- **Unit Type.** Identifies the unit type. Given a definite device type, the plug-in shows in a combo box all the possible corresponding unit types select the most appropriate one. The plug-in selects a default value.
- Switchboard Name. Identifies the name of switchboard the unit is inserted into. Maximum number of characters allowed: 40. Characters allowed: letters, numbers and '\_' (underscore). All the time you insert a new switchboard name it will be added in the combo list. The plug-in suggests a default value. Start the configuration process.

#### Start the configuration process

By clicking on the "Start" button, the **SD-View 2000** configuration process will start and the parameters actually set will be used. Any previous configuration will be overwritten, so be sure that **SD-View 2000** doesn't contain any important configuration data. A message box will prompt you for writing a log file or not. The log files are stored in the "logs" sub-directory of your **SD-View 2000** installation folder. At the end of the configuration process you are ready for executing SD-View 2000. Remember that you need to exit SD-TestBus2 in order to avoid conflicts on accessing communication ports.

#### **Troubleshooting and Error Messages**

Here is a list of error messages that you may encounter, followed by a brief description and a suggested solution. Contact ABB SACE service in case the suggested solution doesn't help you.

• SD-View 2000 has not been installed on this machine The plug-in doesn't detect any SD-View 2000 installation in your machine. Please install SD-View 2000.

#### · Can't access SD-View 2000 registry keys

The plug-in doesn't detect SD-View 2000 registry keys in your machine. SD-View 2000 installation may have been damaged. We suggest to (re)install SD-View 2000.

#### Can't open unit\_list.xml

unit\_list.xml is a file the plug-in uses for getting information about the unit types managed by SD-View 2000. It should be stored into <SD-View 2000 folder>/config/Template If this message appears SD-View 2000 installation may have been damaged or the file has been deleted. We suggest to (re)install SD-View 2000.

• Error with registering SD-View 2000 dispatch interface The plug-in can't access and write Windows registry. Please be sure that SD-View 2000 has been correctly installed on your machine and you have the Administrator privileges on your machine.

#### • Error with SD-View 2000 Configurator

Check no other SD-View 2000 Configurator instances are running or SD-View is not active. The plug-in can't execute SD-View 2000 Configurator routines. This is probably due to the fact that a task relative to SD-View 2000 Configurator or SD-View 2000 is still running on your machine. Please be sure to end all of these tasks. If you still encounter this error message, try rebooting your machine.

#### • There are no units to be configured

SD-TestBus2 hasn't found any device or, the devices found are not valid or can't be managed by SD-View 2000. Please check SD-TestBus2 warning messages. Refer to SD-View 2000 documentation to check which unit/device types are managed by SD-View 2000.

• There are incoherent information from the fieldbus The plug-in can't be executed because SD-TestBus2 has found devices with incoherent information. Typically this happens when two or more devices are connected to the same bus even if they have different communication parameters. Please check SD-TestBus2 warning messages.

#### • A previous SD-View 2000 configuration has been detected and conflicts may arise. Do you want to keep the previous configuration?

The plug-in has detected one or more units that has already been configured or are in conflict with what previously configured in SD-View 2000. Two units are in conflict if they have the same Modbus address and are connected to the same port. If you answer yes, the conflicting items found by SD-TestBus2 will be ignored. If you answer no, all the previous SD-View 2000 configuration will be deleted.

#### • Warning.

There are conflicts with existing SD-View 2000 configuration about port communication parameters If this warning message appears, you have chosen to keep the previous SD-View 2000 configuration. Anyway, the plug-in has detected two or more ports are in conflict. Two ports are in conflict if they have the same port name (COM1, COM2 etc.) but they have different communication parameters (baud rate, parity, reconnection delay etc.). The conflicting ports found by SD-TestBus2 and all the units connected to them will be ignored.

## 7. Starting SD-View 2000

After the configuration process, it's possible to start SD-View 2000 for the remote control of the configured devices.

#### 1st Step

Follow the path Start->Programs->ABB ->SD-View 2000

• Click "SD-View 2000";

The loading of SD-View 2000 will be displayed with the following screenshot:

ABB Industrial IT	
ABB SACE - SD-View 2000	
Copyright © 2000 - ABB SACE	
Client/Server Startup in progress	

#### 2nd Step

This is the first screenshot that will be displayed as soon as the system is ready:



#### 3rd Step

Click the "Login" icon and log in to the system to access to the templates of the configured devices.

The predefined user are the following:

- User: 'User', password '0001'. This user is allowed to move inside the SD-View 2000 graphical pages but it is not possible to execute commands and to acknowledge alarms.
- User: 'Administrator', password '0002'. This user is allowed to move inside the SD-View 2000 graphical pages, to execute commands and to acknowledge alarms.

File View Configuration Utility	FORMATION MAN	AGEMENT]		×
	<b>? 6</b> 1 3	5 7 8		ABB
HomePage		10 K.		
	Enter User Name - User Name Password Server Cancel	and Password that is val	id for this system	
	SUGBUG			ABB

#### 4th Step

Once the system is logged, it is possible to access to the pages fo the configured devices, by clicking on the COMx icons.



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