## How to Install and Use SSS\Progman with Carsoft or INPA interface

First of all you must be able to use Carsoft, and/or INPA already. If you have not figured out how to get those working: Go back and work on them, SSS will not work without those working.

Required Software:

- •VMWare 6 or 7
- •Base31.vmdk Virtual Disk image with all the needed modifications already made
- •BMW Progman v.28, v.30 or v.32
- •Changes.iso

## How To Install SSS Progman v.28, v.30 or v.32

- If you don't have VMWare installed, install it with the default options.
- Install INPA and be certain that it works.
- Open VMWare and create a new Virtual Machine
- Select Typical:

/id	ual machine configuration
Ŧ	Typical
	Create a new virtual machine with the most common devices and configuration options.
	This Workstation 6.x virtual machine will not be compatible with ESX Server 3.x, Server 1.x, ACE 1.x, Workstation 5.x or older versions.
đ	Custom
	Choose this option if you need to create a virtual machine with additional devices or specific configuration options, or if you need to create a virtual machine with specific hardware compatibility requirements.

Select Microsoft Windows, Windows XP: •

New Virtual Machine Wizard	×
Select a Guest Operating System Which operating system will be installed on this virtual machin	ne?
Guest operating system	
📄 😳 Linux	
Nov <u>e</u> ll NetWare	
C Other	
⊻ersion	
Windows XP Professional	
< <u>B</u> ack <u>N</u> ext>	Lancel

- Give your virtual machine any name you like Select Use Host only networking: •
- •

New Virtual Machine Wiza	rd
Network Type What type of network do you war	nt to add?
Network connection	
💮 Use b <u>r</u> idged networking	
Give the guest operating system dir The guest must have its own IP ad	rect access to an external Ethernet network. Idress on the external network.
O Use network address translation (N Give the guest operating system ad external Ethernet network connect	IAT) ccess to the host computer's dial-up or ion using the host's IP address.
<ul> <li>Use host-only networking Connect the guest operating syster computer.</li> </ul>	m to a private virtual network on the host
C Do not use a network connection	
	< <u>B</u> ack <u>N</u> ext> Cancel

• Make your disk a substantial size, but no need to allocate it all now:

	Disk capacity
y that you set here.	This virtual disk can never be
	Disk <u>s</u> ize (GB):
	_
	Allocate all disk space nov
ce performance of create and there must	By allocating the full capa
create and there must	be enough space on the h
will start small, then	lf you do not allocate disk
our virtual machine.	become larger as you add
s IC	If you do not allocate disk become larger as you add

• Your Virtual Machine is created:



• Now you must edit the virtual machine and remove the USB controller, and the sound adapter. Also increase the memory to 1Gb and adjust the Ethernet adapter to use VMnet1

Device	Summary	Device status
Hard Disk (IDE	1024 MB 80.0 GB	Connect at power on
Floppy	Auto detect	Network connection
Display Processors	Auto detect 1	<ul> <li>○ <u>N</u>AT: Used to share the host's IP address</li> <li>○ <u>H</u>ost-only: A private network shared with the host</li> <li>○ Custom: <u>Specific virtual network</u></li> <li>VMnet1 (Host-only)</li> </ul>
	Add Remove	

• Edit the properties of the CD drive to open the PROGMAN ISO

	ROM (IDE 1:0)
De	evice status
	<u>C</u> onnected
	Connect at power <u>o</u> n
- Co	nnection
С	Use physical drive:
	E:
	Connect exclusively to this virtual machine
	Legacy emulation
œ	Use <u>I</u> SO image:
	MW SSS Program v28.0.0.9 iso Browse
1	
	Advanced
	Ad <u>v</u> anced

- Start the Virtual Machine, it will start the Windows OS and start the instalation
- The installation begins, and ignore or press cancel to any messages about agp440.sys at this time
- Eventually it will ask you for the second PROGMAN dvd, just load it's iso on the virtual machine cdrom settings and be sure that you checkmark connected on its settings, it will then continue the installation.
- Take a break, the installation takes a while.

File Edit View VM Team Windows Help		0.447
HODA SSS Base 3.1		
Tiles hended	X	
The Bin ADPR40. Service Pack 2 D Type the path wh OK. Copy Res Ince.	SYS on Window XP Professional DK. Cancel and then click.	
	Progress Coping DVD 1 of 1. 6%	
	Capying brader. 83%	
ware Tools is not installed in this guest. Choose "lin	stal VMwyre Tools" from the VM menu.	50. <b>8</b> 5

- Eventually you will see the following screen
- Select the language you want and press Continue

11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 088 0		_	-	-	_		-
nitial setup - langu	Jage							
	Language	,						
	Please cho	osa dasirad	language of	user inter	ace for this	terminal		
	Flease cho	use desired	language oi	user miteri	ace for dris	terrinnai.		
	deutsch	english(uk)	français	italiano	español	nederlands		
	svenska	japanese 日本語	english(usa)	thai ไทย	taiwanese 台画	chinese হেলে		
	korean 반국어	bahasa indonesia	russian русский	greek. Ελληνικά	türkçe	português		
							0	
						1	Continue	

- You can name it whatever you like
- Enter **192.168.68.1** for the Gateway

SSS Base J.1 - VMware Workstation We Edit View VM Team Windows Help				- 0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	d) 🚥	_		
Installation - Network				
Network configurati	on			
MAC address:	00:0C:29:DE:C9:E6			
SSS name:	PROGMAN	IP address:	192.168.68.50	
Gateway:	192.168.68.1	IP subnet mask:	255.255.255.0	
	1 2 3	4 5 6 7	8 9 0	
	Q W E	RTYU	I O P	
	A S D	FGHJ	К L ←	
	z x c	V B N M		
2000 C			P	
Back			Continu	le
lease configure network and save with "Continue"				
	Touch' from the LDI man-			

• Just leave the Printer info blank and press continue

SSS Base 3.1 - VMware Workstation
n tool @ 555 Base 3.1
Printer configuration
Selection: Local parallel printer Standard
Parameters
Name:     Model:     •       IP address:     Paper:     •       1     2     3     4     5     6     7     8     9     0
Q W E R T Y U I O P A S D F G H J K L ←
Z X C V B N M
Back Continue
Please select the printer you wish to configure. The settings are stored with "Continue"

• When you see this screen, simply press continue



• Enter 12345 for Dealer Number, you can make up the rest of the info:



• Click Finished

• Please Wait

SSS Base 3.1 - VMware Workstation	_ D ×
File Edit View VH Team Windows Help	
A Hone SSS Base 3.1	×
Installation - Dealer Data	
Please wait	
A Where Took is not initialed in this quest, Choose "Initial Where Took" from the Wimenu	-0.8m

• Windows Shuts down, and attempts to reboot



- Power Off the Virtual Machine, we are not quite ready to run Progman yet: Open the properties for the hard drive and click Utilities > Map: •
- •

Capacity	IOIESSIONAL VI	пок	
Current size:	15.1 GB	System free	460 GB
Maximum size:	80.0 GB	ſ	Utilities 👻
Disk information		d for this ha	Map Defragment

Map the first drive, (remember to remove the read-only checkmark) •

ile name:	chines\S9	C Dava 2 1W Lindau			
	A second	o base oli window	is XP Professiona	l.vmdk <u>B</u> ro	WSE
olume:	Number	Maximum Size			
	1	4.01 GB			
	2	34.0 GB			
	3	1.00 GB			
	4	34.0 GB		-	
	C Open f	ile in <u>r</u> ead-only mode	(recommended)		

• Open Regedit

			igram, tolder,	document.	or
	Internet res	source, and	Windows will	open it for y	ou.
en:	regedit				

- In the Registry Editor, first highlight the HKEY\_LOCAL\_MACHINE and Click File > Load Hive
- Browse to the file Z:\Windows\System32\Config\Software
- Give the hive a name like BASE31
- It will show up in the registry

jle Edit Vjew Favorites Help			
🖃 📕 My Computer	Name	Type	Data
HKEY_CLASSES_ROOT	(Default)	REG_SZ	(value not set)
	1	1	

- Browse to BASE31\Microsoft\Windows NT\Current Version\Winlogon
- Find the value of SHELL and double-click it

St Yew Favorites Help			
- LastFortSweep	A Name	Туре	Data
🛞 🧰 Network	20 Disable CAD	REG_DWORD	0x00000001 (1)
🛞 🧰 NetworkCards	Forceuniacklogon	REG_DWORD	0×00000000 (0)
Derigitation (Control of Control of Contr	GnaDLL	REG_SZ	C:\WINDOWS\System32\SSS_Gina.dl
Perfib	HbernationPreviouslyEn	REG_DWORD	0×00000001 (1)
PerHvildStorage	<b>授</b> Key	REG_BINARY	50 23 07 01
Ports	LegaNoticeCaption	REG_SZ	
	LegaNoticeText	REG_52	
E SACEAR	LogonType	REG_DWORD	0x00000000 (0)
R S sho	et Lsa Rart	REG_SZ	%SystemRoot%(system32)(sass.exe
R SycHost		REG_DWORD	0×00000001 (1)
fil 🦳 Time Zones	B passwordexpirywarning	REG_DWORD	0x0000000e (14)
😕 🧰 Tracing	PowerdownAfterShutdown	N REG_SZ	0
🕀 🦲 Type 1 Installer	ReportBootOk.	REG_SZ	1
- 🛄 Windows	et scremove option	REG_SZ	0
🖻 🔂 Winlogon	SFCDisable	REG_DWORD	0x00000000 (0)
a 🔁 wow	製 SfcQuota	REG_DWORD	0xffffffff (4294967295)
WPAEvents	the Shell	REG_SZ	C:\WINDOWS\system32\ifs\install\instprg.exe -prg
E Windows Script Host	Bill ShowLogonOptions	REG_DWORD	0×00000000 (0)
H WZCSWC	Shutdown/WithoutLogon	REG_SZ	0
the Collection	(ab) System	REG_SZ	
C C Workson 3.1 Monstern Datur	Lithost .	REG_EOPAND_SZ	logonul.exe
HADDWADF	Userinit	REG_SZ	C:\WINDOWS\FBA\FBA.EXE -run
E SAM	WinApplet	REG_SZ	rundE32 sheE32, Control_RunDLL "sysdm.cpl"
SECURITY	WinStationsDisabled	REG_SZ	0
IN SOFTWARE	1111		

• Change the value to Explorer.exe

		?
Γ	OK	Cancel
		ОК.

• Collapse the folder tree so that BASE31 is highlighted

			- 🗆 ×
915			
Name (b)(Def o.k)	Type REG_SZ	Deta (value not set)	
*			
	Name (Def ok)	Nome Type (Defoult) REG_SZ	Nome Type Data (Default) REG_SZ (value not set)

- Click File > Unload Hive.
- Close registry editor, and the folder that may have been oppened automatically of the virtual disk
- Return to VMware, open the properties for the hard drive and select Utilities > Disconnect

Capacity	ale a la contra	80.57 20	
Current size:	954 MB	System fre	e: 475 GB
Maximum size:	80.0 GB	Γ	Utilities 👻
		[	Disconnect
Disk information	69	1	Defrement
Disk space is no Hard disk conte	ot preallocate nts are store	d for this ha d in a single	i dien. file.

• Open the properties for CD drive and load the changes iso file

	Connected
2	Connect at power <u>o</u> n
Со	nnection
C	Use physical drive:
	E:
	Connect exclusively to this virtual machine
	Legacy emulation
œ	Use ISO image:
	\Progman Changes\changes isd Browse
	A 1 1

• Start the VM and it will boot into Windows and press cancel to any messages about agp440.sys



• Open My Computer

2 My Computer		
Bie Edit Verw Favorites Look Helb		
🔾 🖓 Early - 🕑 - 🤔 🔎 Search 🎦 Folders 👘 🎲 🗙	9	
Address 😼 My Computer		
Hard Disk Drives  France Disk Drives  See prognam_system (C)  See prognam_sept (D)  See prognam_metal (P)  Devices with Removable Storage	sss_progman_service (E:)	
316 Floopy (Ac)		

• Double click the CD drive (Changes (G:) and a command window should open:



If the command window does not open, and instead you see the contents of the drive, double-click the file sss\_stage2

- Press any key to continue
- You'll see the following screen, and again press any key to continue



- Reboot the VM (Start > Shutdown > Restart)
- While you wait for the VM to restart, launch IFHSrv32.exe from the C:\EDIABAS\Bin folder.
- Progman is up for the first time finally



• Click on Administration and the following screen appears

SSS Base 3.1 - VMware Workstation	
e Edit Vew Wi Tean Windows Help I III A AN IVA (S. 17) (Th. 27) (S. 17) (Th. 27) (S. 17)	
SSS Base 31	
Administration	
Home	Hardcopy
Administration - Overview	Interfaces
The following progman parts can be configured:	Settings
Interfaces     settings, interface update, self-test, external interface	User interface
Settings     SSS network, individual SSS	Connection test
User interface     Local language, printer	
You can test the connection to other network users in the <b>Connection test</b> mask/screen.	
ease relect components.	
	-A.D.=

• Click on interfaces and you see this screen:

Har	Administra		-	_	-	Hardson
Status	Interface name	Version	IP address	External		Interfaces
ap.	MPS	5.01	192.168.0.1			Overview
20	MPS	5.01	192.168.0.2			Configuration
	MPS	5.01	192.168.0.3			Interface undate
9-	ICOM	5.01	192.168.0.4			interface update
-	ICOM	5.01	192.168.0.5			Self-test
7	ICOM	5.01	192.168.0.6			External interface
?	ICOM		192.168.0.7			
*	ICOM(PKW)	5.01	192.168.0.8	×		
*	OPS	5.01	192.168.0.9	×		
*	MOXA	ъ.	192.168.0.10	×		

• Click on External Interface, and click Add



• Enter 192.168.68.1 for IP address and press continue



It takes you back to the interface screen, so just click on Home •

Ho	me Administr	Hardcopy				
tatus	Interface name	Version	IP address	External		Interfaces
20	MPS	5.01	192.168.0.1			Overview
20	MPS	5.01	192.168.0.2			Configuration
2	MPS	5.01	192.168.0.3			Interface undate
12-	ICOM	5.01	192.168.0.4			menace aparte
-	ICOM	5.01	192.168.0.5			Self-test
Jainte	ICOM	5.01	192.168.0.6			External interface
?	ICOM	5	192.168.0.7			
X	ICOM(PKW)	5.01	192.168.0.8	×		
×	OPS	5.01	192.168.0.9	×		
*	MOXA	-	192.168.0.10	×		

Using Progman with your BMW

- Connect your interface cables and verify that Carsoft, and INPA can communicate with the DME In SSS\Progman, click on New Session and you should see this: •
- •

💋 SSS Base	3.1 - VMware Worksta	tion			- C X
File Edit Ve	w VM Team Windows H	do			
<b>u</b> 11   > e	0 4 10 10 10 10 10 10 10 10 10 10 10 10 10		3		
🔒 Home 🛅 S	iS Base 3.1				×
Interface	•				
Hon	ne Administra	ation			Hardcopy
Status	Interface name	Version	IP address	External interface	
44	OPS1	6.21	192.168.68.1	x	
Bac Select an	K	with "Continu	ie".		
Tools is	not installed in this guest, Choose	unertall VMware Tool	F promother VM memu.		

• Highlight the interface by clicking on it, and press continue

and with in	J.1 - VMware Worksta	ition			-0
FRE EDC Y	lew VM Team Windows H	elp			
	0 0 6 6 9 10 6		2		
Horse 🔂	SSS Base 3.1				
Interfac	e				
	-				
Ha	Administr	attion			Hardbasy
	ine Gentlised				Therocopy
Status	Interface name	Version	IP address	External interface	
4100	OPS1	6.21	192 168 68 1	×	
	and the second s				
Ba	ak	Iled	1	Continuo	
Ba	ck	Upd	ate	Continue	
Ba	ck	Upda	ate	Continue	
Ba	ck	Upda	ate	Continue	
Ba	ck	Upd	ate	Continue	

• Enter any name that you would like for the session and press continue

🗊 SSS Base 3.1 - VMwa	re Workstation	
File Edit View VM Team	Windows Help	
SSS Base 3.1		*
Session	OPS1	
Home	Administration	Hardcopy
Description of	new session	
IP address: 19	2.168.68.1 Interface name: OPS1	
Description:	EST	
Beachpaon.		
1 2 2		
1 2 3	4 5 6 7 8 9 0	
Q W E	RTYUIOP	
A S D	F G H J K L ←	
Z X C	V B N M	
Back	Conti	inue
Enter the description	for the new session and confirm with "Continue".	
Vitware Tools is not installed in th	is guest. Choose "Install VMware Tools" from the VM menu.	- <b>.</b>

• Continue by selecting your type of car (I am connecting to a 2001 325xi, so I selected 3 series > E46):

SSS Base J. 1 - VMware Workstation	
There are seen and a see	×
Progman session TEST	
End Management	
Coding Individualisation Programming	Model series SELECTION         1 Series         3 Series         5 Series         6 Series         7 Series         8 Series         X         Z
👔 Where Tools is not installed in this guest. Choose "Instal Where Tools" from the	Maera. 🖂 🖉 🖲 🖉
SSS Base 3.1 - VMware Workstation Re Edt Vew VM Tean Windows Help	- D X
	×
Progman session TEST	
End Management	
Coding Individualisation Programming	Model series SELECTION
Coding Individualisation Programming	Model series SELECTION
Coding Individualisation Programming	Model series SELECTION

• Then you should see this screen, it takes a few minutes to get through:

SSS Base v.31 \Progman v.28 - V	Mware Workstation				0 0 -8
File Edit View VM Team Wir	vdows Help				
🚹 Home 📑 D(Six,44 📑 SSS Base	e.31 \Progman e.28				*
Progman session	TEST	T.		E Bu.	Terminal : 14.00 V
rioginali session	TEST			直 🖳	Terminal : 14.00 V 15
				Minimize	Hardcopy
The vehicle order/centre	al encoding key (EA/7	CS) is being deter	mined		
The vehicle of derivenus	ar encouning key (FAV2	(CO) is being deter	nineu.		
1					
					0.8-+
the second second second second second second has been all and the second s	ist. Uncose "Install VM-ware Tools" from	n she vivi menu.			- KA 44 (0) 1

• You should see this screen eventually



I'm only going to show you how to adjust key and car setting, because that is what you are after. Coding modules is beyond my expertise anyhow

- Click on CKM
- You see this screen, ... for a little while

SSS Base v.31 \Progman v.28 - VM	ware Workstation		
He Edt View VM Team Winds	ows Help		
Hoter Di Colvina Di SSS Base e.	31 \Program #28		
Car & Key Memory	TEST	E46 20.67/010, 000100	DR and Solar V Terminal 12.40 V Terminal 12.40 V
Print	Change End		Minimize Hardcopy
			Function groups
Set Car i	& Key Memory settings are	e being read out.	

• You now see all the settings that you can adjust on your car, cool!





Click on the individual items like "daytime running light to get a brief description of the adjustment"



- Once you have made all of your desired adjustments, press the Encode button
- Your new settings are now saved, and you have saved yourself a trip to the dealer and the cost of the labor they would have charged you to make these adjustments.

All credits for this tutorial go to the user <u>randomy</u> from the forum <u>http://forums.bimmerforums.com</u>, I've only converted his posts to this tutorial document, and made some small corrections to his instructions.

Be sure to read my notes at the end of this document, that have some solution that may resolve some problems you may have with the interface.

## AntMad aka ViperRunner

## Notes:

To leave the virtual machine, you can suspend it, or to shut down the machine i recommend you do the following steps: Administration > Settings > select the interface > Operating Status > Switch Off, and wait a few moments while the machine shuts down.

As the machine takes a lot of time to startup, personally i prefer to suspend it.

Just be sure that you are running IFHSrv32.exe untill the machine fully shuts down and that you always execute it from the folder C:\EDIABAS\Bin before starting it again!

One more information i think that may be useful for some, regarding my interface i discovered that for the SSSProgman to be able to code /program I have to make the following modifications to the EDIABAS.INI file:

rganizar 👻 🦳 Abri	r 🔻 Imprimir Gravar Nova past	a		8	 0
Favoritos Ambiente de traba Localizações	Nome SestInfo.exe BestVer.exe BestView.exe	Data modificação 19-06-2004 16:11 19-06-2004 16:11 19-06-2004 15:46	Tipo Aplicação Aplicação Aplicação	Tamanho 18 KB 24 KB 328 KB	
Bibliotecas	<ul> <li>BestView.hlp</li> <li>bestvw32.exe</li> <li>BestVw32.hlp</li> </ul>	15-12-2001 09:41 19-06-2004 16:01 15-12-2001 09:41	Ficheiro da ajuda Aplicação Ficheiro da ajuda	21 KB 588 KB 27 KB	
<ul> <li>Imagens</li> <li>Música</li> <li>Vídeos</li> </ul>	<ul> <li>can32.dll</li> <li>Can32.ini</li> <li>can32.vlf</li> <li>CANed ibEl dll</li> </ul>	20-12-2004 13:08 17-12-2004 06:51 22-10-2004 10:46 20-12-2004 12:56	Extensão da aplica Definições de con Ficheiro VLF	96 KB 9 KB 49 KB 260 KB	
🍓 Grupo Doméstico	CANUPLED AND CMDIALOG.VBX ebas32.dll	28-04-1993 01:00 19-06-2004 16:11 19-06-2004 16:00	Extensão da aplica Ficheiro VBX Extensão da aplica	19 KB 264 KB 204 KB	
Computador	ebasmt32.dll     ebasmt32.exe     ebasmt32.exe	19-06-2004 16:11 19-06-2004 16:11 19-06-2004 16:01	Extensão da aplica Aplicação Aplicação	268 KB 244 KB 140 KB	
	EDIABASJNI	21-04-2010 22:37 19-06-2004 16:11 05-01-1995 00:06	Definições de con Aplicação Ficheiro VBX	14 KB 233 KB 173 KB	

- Go to the folder C:\EDIABAS\Bin and open the file EDIABAS.INI with a text editor like Notepad

- Be sure that the interface is STD:OBD, like shown on the image

EDIABAS.INI - Bloco de notas	
Ficheiro Editar Formatar Ver Ajuda	
; Description : Enable/Disable ECU simulation ; Value : 0 = Simulation disabled ; Default = 0 Simulation = 0	•
; Interface Description : Connected diagnosis interface Default = STD:OBD	
Interface =STD:OBD	
	-
< III	<u>ان ا</u>

This way it doesn't give a very well know error saying it will need a ICOM interface to be able to code or program.

- With this modification i noticed there are some functions that stop working with DIS and INPA, like the car automatic identification DIS and the ignition detection on Inpa, and for this functions to work again, whenever I want to use DIS or Inpa again with all it's functions, I have to change the interface on the EDIABAS.INI file for the ADS interface, like shown on the following image

EDIABAS.INI - Bloco de notas	- • •
Ficheiro Editar Formatar Ver Ajuda	
; Description : Enable/Disable ECU simulation ; Value : 0 = Simulation disabled ; Default = 0 ; imulation = 0	*
; Interface ; Description : Connected diagnosis interface ; Default = STD:OBD	
	-
<	μ. <b>4</b>

I'm not sure in what cables this happens with, but for what I've been reading it happens in a good number of them, so, maybe this resolves some problem you may have.