

INSTALLATION OF THE SOFTWARE TOOLS FOR HF SERIES GENERATORS

SECTION 1 SOFTWARE INSTALLATION

1.1 INTRODUCTION

The present document is a quick guide to install the software tools needed to configure, calibrate and service the X-ray Generator. For detailed information about how to install, configure and calibrate the Generator, refer to the Service manual.

The Software Service Tools folder contains several subfolders with the Tech Service Console application, for configuration and calibration of the Generator, the Downloader application, to update the Generator's software, the USB serial converter drivers (optional with the Push-buttons Control Console) and the Tube catalog, with the digitalized X-ray tubes which are compatible with the Generator. Generators equipped with the A9593-XX Ebox board also include the Ebox Service Console application for AEC calibration.

1.2 TECH SERVICE CONSOLE INSTALLATION

The Tech Service Console allows the access to the service screens for Configuration and Calibration procedures, reading the Error Log and Exposure Counters, downloading the Tube parameters and updating the software. It also allows the access to the User Console.

For a correct visualization of the Tech Service Console, the minimum screen resolution should be 1024 x 768. A screen resolution of 800 x 600 can be used to display the main screens correctly but the lower part of the Exposure Scope, where +5V, +15V and +25V can be selected, will not be displayed.

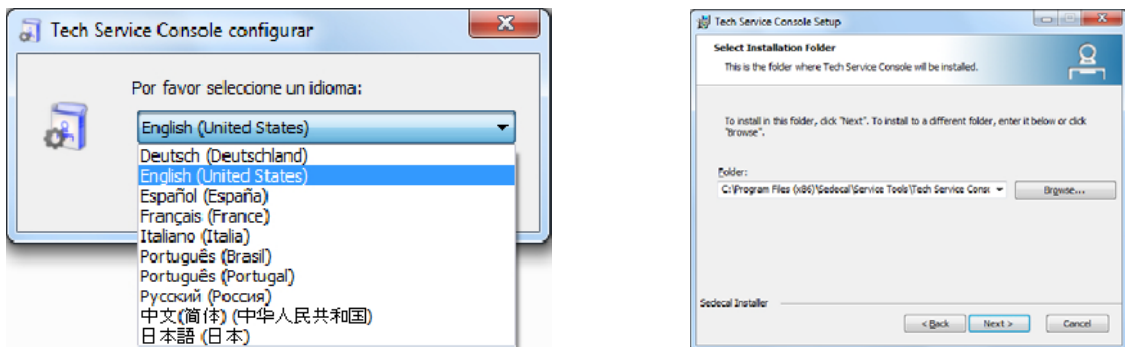
1. To install the Service Console, open the Tech Service Console folder of the USB with the Software Service Tools of the Generator, and click on the .exe file, *Tech Service Console Setup*.

Note 

When installing the Service Console program in the computer, if the installer starts downloading .NET Framework from Internet, cancel the download and install version 4.0 (dotNetFx40_Full_x86_x64.exe) from the folder where the main application installer is. Then, install the Service Console program.

2. Select the language and click Accept. Then, click next and select the folder for the installation. It is recommended to install the Tech Service Console in the default folder. Click next and then click install to beginning installation.

Illustration 1-1
Tech Service Console installation



3. Once the installation is completed, click Finish. A desktop icon is created on the desktop.

Illustration 1-2
Desktop icon



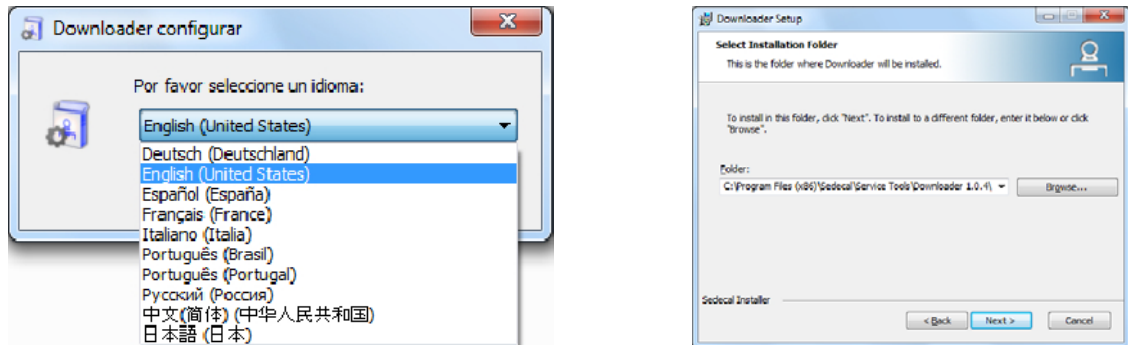
1.3 DOWNLOADER INSTALLATION

The Downloader is used to update the Generator software, it is recommended to install the Downloader to the default path, so it can be launched from the Service Console.

1. To install the Service Console, open the Downloader folder of the USB with the Software Service Tools of the Generator, and click on the .exe file, *Downloader Setup*.

2. Select the language and click Accept. Then, click next and select the folder for the installation. It is recommended to install the Downloader in the default folder. Click next and then click install to beginning installation.

Illustration 1-3
Downloader installation



3. Once the installation is completed, click Finish. A desktop icon is created on the desktop.

Illustration 1-4
Desktop icon



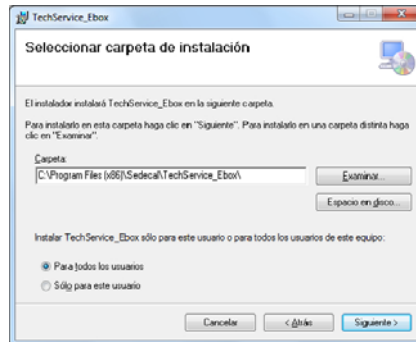
1.4 EBOX SERVICE CONSOLE (ONLY FOR GENERATORS WITH THE A9593-XX EBOX BOARD)

Generators with the A9593-XX Ebox board need additional software for AEC calibration. In these Generators, the AEC calibration data is stored in the SD card of the A9593-XX Ebox board instead of being saved in the U66-EEPROM memory of the A3640-XX Control board.

The Ebox Service Console program allows the access to the service screens to calibrate the AEC, format the SD card which contains the data saved in the board, modify the eBox board IP and update its firmware.

1. To install the Ebox Service Console, open the Ebox Service Console folder of the USB with the Software Service Tools of the Generator and click on the .exe file, *setup*.

2. Click next and select the folder for the installation. It is recommended to install the Ebox Service Console in the default folder. Click next and, finally, click next again to begging installation.



3. Once the installation is completed, click Close. A desktop icon is created on the desktop.



4. Before starting the Ebox Service Console, a static IP has to be assigned to the computer. To do so, go to “Control Panel > View network status and tasks > Local Area Connection > Properties”.
5. Double click in “Internet Protocol Version 4 (TCP/IPv4)” and select “Use the following IP address” to assign the computer a static IP address.
6. Finally, enter a IP within the range of the room and click “OK”.

1.5 USB SERIAL CONVERTER DRIVERS INSTALLATION (OPTIONAL WITH PUSH-BUTTONS CONTROL CONSOLE)

When using a Push-buttons Control Console, a USB serial converter may be needed to allow the connection of the Interconnection Cable to a USB port of the computer. In this case, the USB serial converter drivers must be installed in the computer before connecting it.

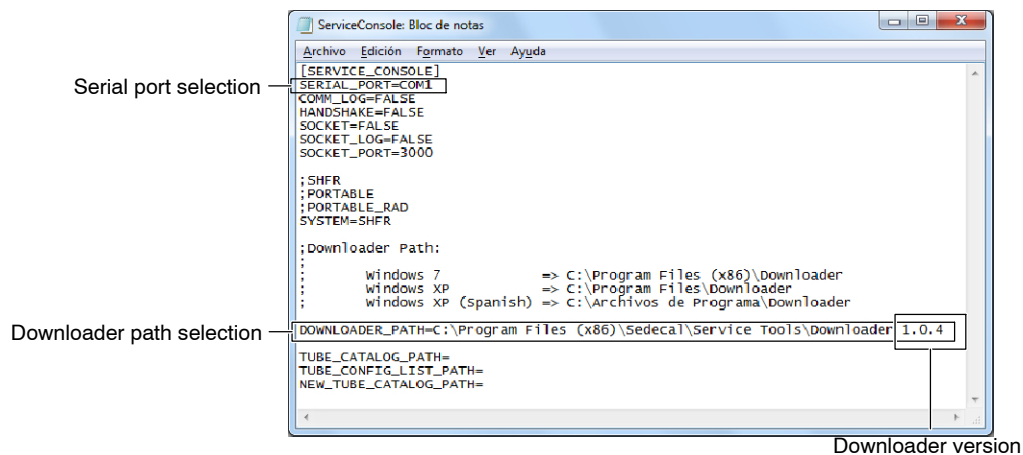
1. To install the drivers, open the USB Serial Converter folder of the USB with the Software Service Tools of the Generator. Then, open the Windows_Driver folder and click in the .exe file, *Setup*.

2. When connecting the USB serial converter to the computer, the operating system selects a random COM port, which has to be changed in order to allow the correct operation of the Tube's downloader. To do so, go to "Control Panel > Device Manager" (or "Control Panel > System > Hardware > Device Manager", for Windows XP).
3. Double click on "Ports (COM & LPT)".
4. Right click on the device and click on "Properties".
5. Click on "Port Settings" and then, click on "Advanced...".
6. Click on the "COM Port Number" to display the dropdown menu and select one of the following COM ports: COM1, COM2, COM3, COM6, COM7 or COM8.

SECTION 2 FINAL CHECKS

Open the ServiceConsole.ini file, located in the Tech Service Console folder: *C:\Program Files\Sedeca\Service Tools\Tech Service Console X.X.X* (this is the path by default after installing the program).

Illustration 2-1
ServiceConsole.ini



2.1 SERIAL PORT

It might be necessary to change the port selection in the .ini file in case the Interconnection cable (*refer to the Installation document*) is not connected to COM1 on the PC. In this case, modify the serial port selection according to the one in use, e.g. SERIAL_PORT=COM3 (*refer to Illustration 2-1*).

2.2 DOWNLOADER PATH

It might not be able to launch the Downloader from the Service Console when working with an operating system different from Windows 7 or if the Downloader was not installed in the default path. In this case, modify it in the .ini file, e.g. for Windows XP, the default path will be DOWNLOADER_PATH=C:\Program Files\Sedecal\Service Tools\Downloader x.x.x (*refer to Illustration 2-1*).

Check, also, that the installed Downloader version matches the version of the path written in the .ini file. If needed, modify it in the .ini file (*refer to Illustration 2-1*).