

# **BSI Demo manual**

## **1. Installation**

BSI demo installation can **only** be done on a Windows PC or a Mac with direct internet access. Some Python libraries will be downloaded during installation,

### **1.1. Windows**

Unzip and run the [BSI\\_demo\\_setup\\_0.9.exe](#) file and follow the wizards

### **1.2. MacOS**

- Download and install Python 3.5.2  
<https://www.python.org/ftp/python/3.5.2/python-3.5.2-macosx10.6.pkg>
- Start a Terminal  
[Finder - Applications - Utilities - Terminal](#)
- Install Homebrew  
[/usr/bin/ruby -e "\\$\(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install\)"](#) ➡
- Install zbar  
[brew install zbar](#)
- Install tesseract
- [brew install tesseract --with-all-languages](#)
- Install Python libraries:  
[pip3 install cherryypy](#)  
[pip3 install pyftplib](#)  
[pip3 install fpdf](#)  
[pip3 install pdftools](#)
- Unzip the [BSI.zip](#) file on your desktop

## 2. Startup and configuration

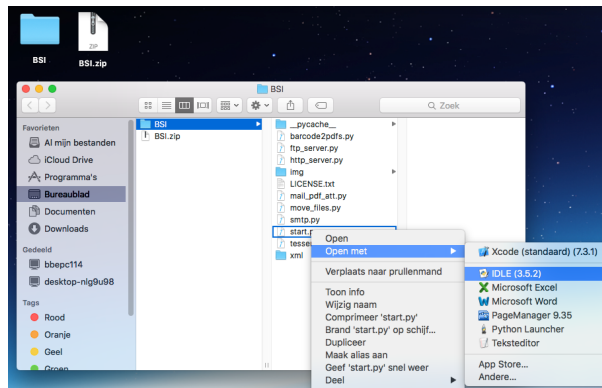
### 2.1. Start program on Windows

- Double click the BSI icon

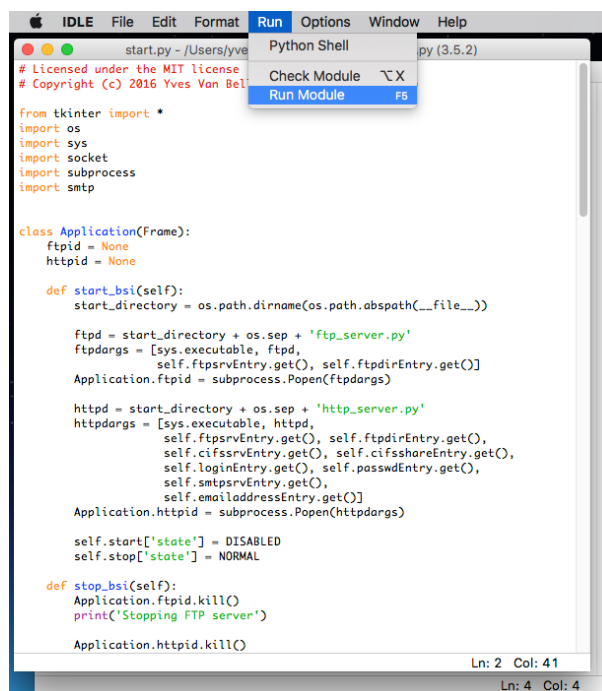


### 2.2. Start program on MacOS

- Open the BSI folder on your Desktop, right click (or CTRL + click) on start.py and select Open with – IDLE

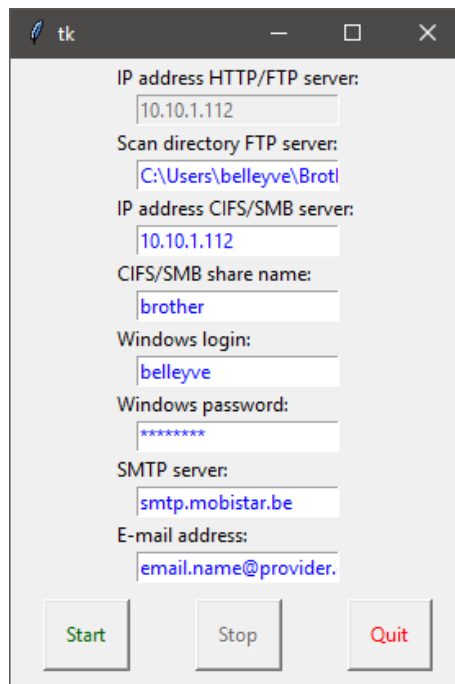


- Now in IDLE select the Menu Run – Run Module or press the F5 key



## 2.3. Configure and start demo

### 2.3.1 Start the BSI Demo program:



**IP address HTTP/FTP server:** This is the IP address of the PC/Mac where BSI demo is running

**Scan directory FTP server:** This is the directory where the FTP server will store its files. The default is the home directory of the current user + Brother. If the directory doesn't exist, BSI demo will create it when the FTP server is started.

**IP address CIFS/SMB server:** This is the IP address of the PC where a share is done. By default this is the IP address of the PC where BSI demo is running.

**CIFS/SMB share name:** This is the name of the share on the CIFS/SMB server. This must be the share name as seen on the network, not the path on the disk to the directory.

**Windows Login:** The login name of the user on the CIFS/SMB server.

**Windows password:** The password of the user on the CIFS/SMB server.

**SMTP server:** This is the name or IP address of the mail server of your internet provider or your company.

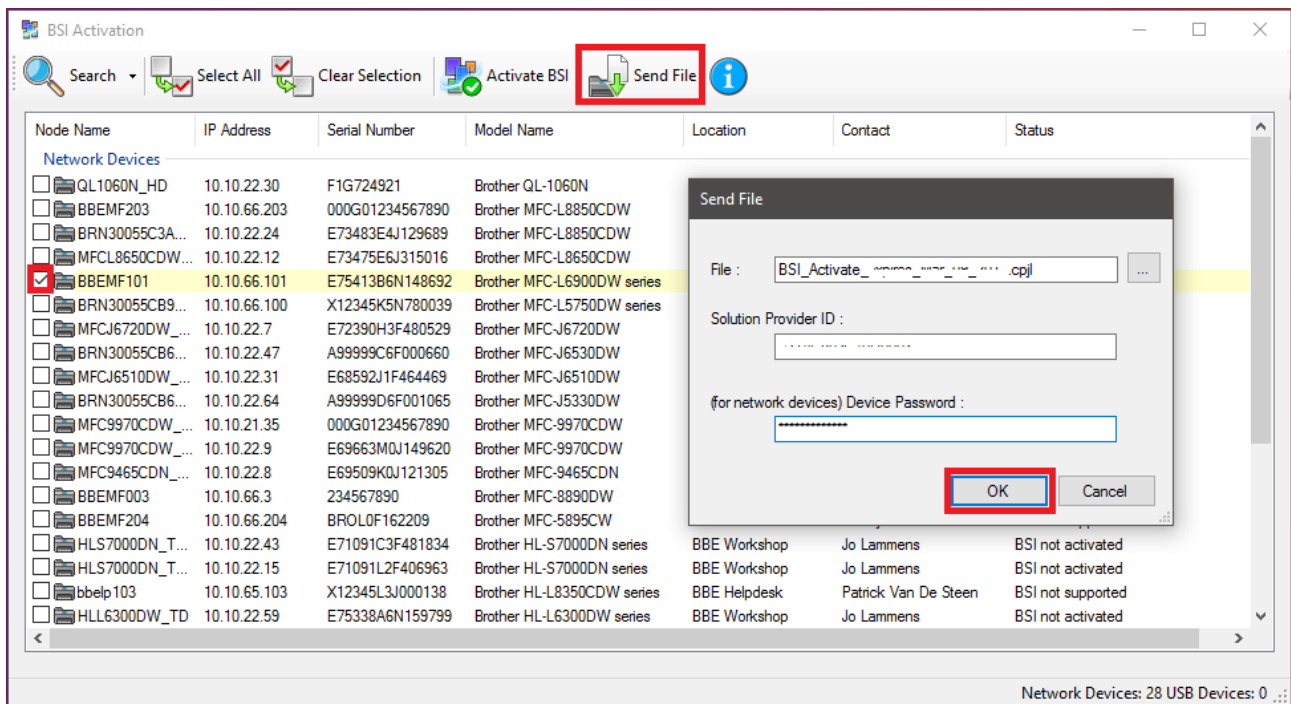
**E-mail address:** Your email address or an existing email address to scan to.

**Start button:** Start the BSI Demo FTP server and the HTTP server.

**Stop button:** Stop the BSI Demo FTP server and the HTTP server.

**Quit button:** Stop the BSI Demo FTP server and the HTTP server and close the configuration window

### 2.3.2. Enable BSI in ADS/DCP/MFC machine with BSI Activation tool

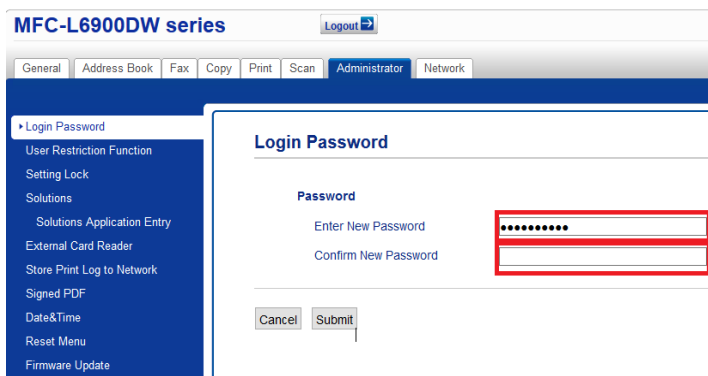


- Select the device
- Click on Send File
- Select your BSI activation filename
- Enter your BSI ID
- Enter the password of your device
- Click OK
- Power the device OFF and ON again.

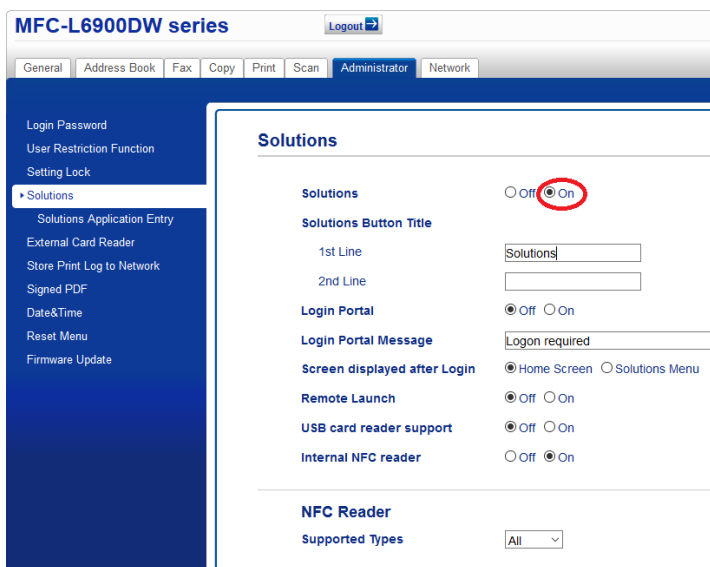
**Remark:** it is recommended to enter the MAINTENACE mode and type 01 to give the machine a full reset before configure the machine.

### 2.3.3. Configure the device to use the BSI Demo program

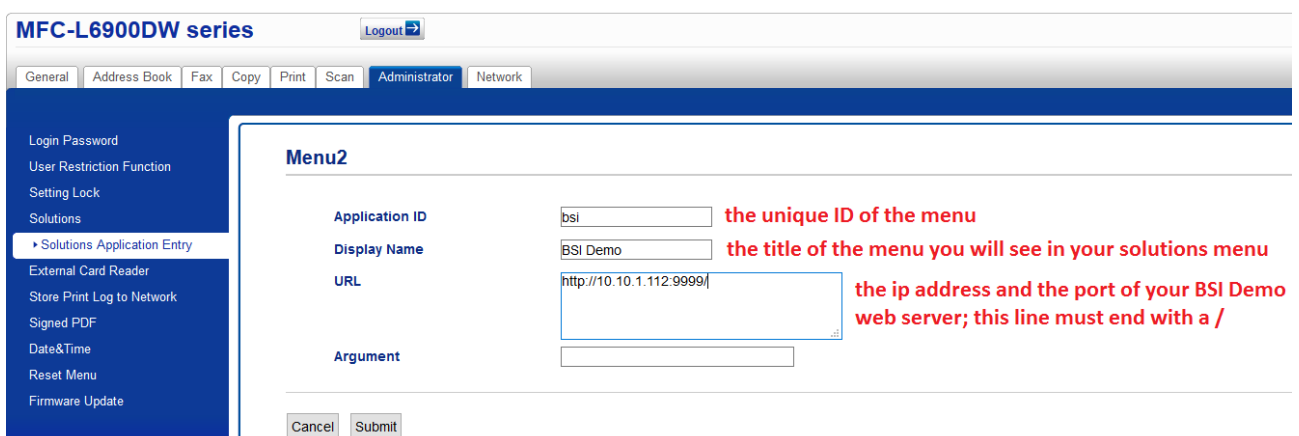
Enter a password before starting the BSI configuration, otherwise BSI won't work



Enable the BSI solutions in the web interface of your device:



Create the solutions menu for the BSI Demo program



### 3. Explanation of functions

#### 3.1. Order Scan



Orderscan does a scan to FTP; the number you enter is used as the start of the filename. This function can be used in the exercises (change the icon, add input features).

#### 3.2. Scan 2 CIFS



Scan 2 CIFS will scan to the share on the CIFS/SMB server. On the CIFS/SMB server share a directory with the sharename Brother. The filename of the scanned document will start with **CIFS-SMB\_Scan**

#### 3.3. Scan 2 mail



Scan 2 mail will scan the document and send it to the configured E-mail address. This function uses the SMTP configuration of the ADS/DCP/MFC machine. So please configure this on your Brother with the web interface:

#### 3.4. Scan 2 OCR PDF



To demonstrate the scan 2 OCR function execute the following steps:

- print the document The\_Nice\_People.pdf in the BSI Demo directory on a duplex printer for a duplex scanner otherwise print the pages simplex
- empty the FTP directory
- scan the printed pages
- the pages will be scanned to JPEG files
- the JPEG files will be OCR'd and converted to PDF
- the PDF pages will be merged

### 3.5. Barcode scan



To demonstrate the Barcode scan function execute the following steps:

- print the document QR-Code\_examples.pdf in the BSI Demo directory on a duplex printer for a duplex scanner otherwise print the pages simplex
- empty the FTP directory
- scan the printed pages
- the pages will be scanned to JPEG files
- zbar will detect the barcodes on the page and return the barcode data
- the pages are converted to PDF pages and putt together
- the PDF documents will be stored in a directory with the same name as the barcode
- scan the pages again and show the customer the directories with the PDF files

### 3.6. Read RFID



This is a simple demonstration. Activate the function. Pass the RFID key/card over the reader. The key/card ID number is shown on the LCD screen of your Brother device.

### 3.7. Multiple emails



This function scans a document and sends them to the selected Brother offices.

- put in a document with the text “Brother BSI Demo - Please ignore - throw away”
- tick the offices you want to send the scan to
- press OK
- the scan will be send to the different Brother offices

## 4. Exercises:

It is recommended to install the PyCharm IDE Community, this will make life easier.

<https://www.jetbrains.com/pycharm/download/>

For Windows users copy the directory C:\Program Files (x86)\**BSI Demo** to the desktop. With PyCharm open the directory. For Mac users just open the directory BSI Demo with PyCharm.

### 4.1. Change icon

Open the file xml > linkscreen\_img.xml and change the icon from orderscan to calc.jpg.

Create your own icon and change the icon from the Scan 2 CIFS selection. Tip: you can best use MS Paint to create your icon.

### 4.2. Add letters to Orderscan

Open the file xml > orderscan.xml and figure out how to add letters and symbols to the input.

### 4.3. Modify Multiple emails

Open the file xml > selector.xml. Modify the email addresses to email addresses of your company. Add some more email addresses.

#### 4.4. Play with Scan 2 CIFS

Open the file xml > scan2cifs.xml. Now modify the filename of the scanned document. Modify the file so all parameters are static.