NETWORK ADMINISTRATOR MANUAL
Configuring an Evolis printer via Wi-Fi or Ethernet
# Document History

**Initialization**

<table>
<thead>
<tr>
<th>Written by:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved by:</td>
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<td>Date:</td>
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</tbody>
</table>

**Update chart**

<table>
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<tr>
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<th>Description</th>
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<tr>
<td>A0</td>
<td>Creation</td>
<td>2012-10-23</td>
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</tbody>
</table>
## Table of contents

1 - Introduction ................................................................................................................................. 5  
  1.1 Introduction ................................................................................................................................. 5  
  1.2 List of icons ................................................................................................................................. 5  

2 - General remarks ............................................................................................................................ 6  
  2.1 Interface characteristics ............................................................................................................... 6  
  2.2 TCP/IP Protocol ........................................................................................................................... 6  
  2.3 Wi-Fi ........................................................................................................................................... 6  
  2.4 MAC address ............................................................................................................................... 7  
  2.5 Hostname ................................................................................................................................... 7  
  2.6 IGMP .......................................................................................................................................... 7  

3 - Network configuration ................................................................................................................... 8  
  3.1 Network installation wizard ......................................................................................................... 8  

4 - Printer configuration using escape commands .............................................................................. 9  
  4.1 Access to the printer dialogue menu ............................................................................................ 9  
  4.2 List of Escape commands ............................................................................................................ 10  
    4.2.1 General settings .................................................................................................................... 10  
    4.2.2 Wi-Fi: General settings ......................................................................................................... 12  
    4.2.3 Wi-Fi: Rwifi and Pwifi Keywords list ................................................................................ 14  

5 - Evolis printer configuration settings ............................................................................................. 16  
  5.1 Access to the administration web page ....................................................................................... 16  
  5.2 Viewing the settings .................................................................................................................... 16  
    5.2.1 Network ................................................................................................................................ 16  
    5.2.2 Wireless ................................................................................................................................ 17  

6 - Examples of printer configuration .................................................................................................. 18  
  6.1 Configuring a printer in DHCP mode, located on a sub-network .............................................. 18  
    6.1.1 With the embedded web server ............................................................................................. 18  
    6.1.2 With escape commands ......................................................................................................... 19  
  6.2 Configuring a printer with a static IP address, on a subnet with WINS resolution .................... 20  
    6.2.1 With the embedded web server ............................................................................................. 20  
    6.2.2 With escape commands ......................................................................................................... 21  
  6.3 Configuring a printer with a static IP address, on a subnet without WINS resolution ............... 22  
    6.3.1 With the embedded web server ............................................................................................. 22  
    6.3.2 With escape commands ......................................................................................................... 23  
  6.4 Configuring a printer in Wi-Fi mode - Ad hoc with no security ................................................. 24
6.4.1 With the embedded web server ................................................................. 24
6.4.2 With escape commands ........................................................................ 24
6.5 Configuring a printer in Wi-Fi mode - Access point with Wep 128 bits security and static IP address .................................................. 25
   6.5.1 With the embedded web server ........................................................... 25
   6.5.2 With escape commands ...................................................................... 25
6.6 Configuring a printer in Wi-Fi mode - Access point with WPA-AES security and IP address in DHCP mode ........................................... 26
   6.6.1 With the embedded web server ........................................................... 26
   6.6.2 With escape commands ...................................................................... 26
Table of figures

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Figure 1</td>
<td>Network installation wizard</td>
<td>8</td>
</tr>
<tr>
<td>Figure 2</td>
<td>Welcome screen</td>
<td>9</td>
</tr>
<tr>
<td>Figure 3</td>
<td>Access to the printer dialogue menu</td>
<td>10</td>
</tr>
<tr>
<td>Figure 4</td>
<td>Printer’s properties window</td>
<td>10</td>
</tr>
<tr>
<td>Figure 5</td>
<td>Printer’s properties window</td>
<td>11</td>
</tr>
<tr>
<td>Figure 6</td>
<td>Web interface - Network</td>
<td>17</td>
</tr>
<tr>
<td>Figure 7</td>
<td>Web interface - Wireless</td>
<td>18</td>
</tr>
<tr>
<td>Figure 8</td>
<td>DHCP mode configuration</td>
<td>19</td>
</tr>
<tr>
<td>Figure 9</td>
<td>Web server (DHCP mode)</td>
<td>19</td>
</tr>
<tr>
<td>Figure 10</td>
<td>Static IP configuration with WINS resolution</td>
<td>21</td>
</tr>
<tr>
<td>Figure 11</td>
<td>Web server (Static IP)</td>
<td>21</td>
</tr>
<tr>
<td>Figure 12</td>
<td>Static IP configuration without WINS resolution</td>
<td>23</td>
</tr>
<tr>
<td>Figure 13</td>
<td>Web server (Without WINS resolution)</td>
<td>23</td>
</tr>
<tr>
<td>Figure 14</td>
<td>Web server (Wi-Fi - Ad hoc)</td>
<td>25</td>
</tr>
<tr>
<td>Figure 15</td>
<td>Web server (Wi-Fi - Access point - Wep 128)</td>
<td>26</td>
</tr>
<tr>
<td>Figure 16</td>
<td>Web server (Wi-Fi - Access point - WPA-AES)</td>
<td>27</td>
</tr>
</tbody>
</table>
1 - Introduction

1.1 Introduction

This manual describes how to configure a Primacy or a Zenius printer connected to Wi-Fi or to a TCP/IP network, also known as an Ethernet network.

The two printers are similar, for this reason, the network administrator manual is the same for both printers.

This information is intended for well-informed readers who are specialists in computer networking.

The examples given are based on Windows 7.

Changing the printer's basic settings, without prior knowledge of the layout of the LAN in question or without genuine technical knowledge may result in a malfunction of the printer, and may even extend to a more widespread failure of all part of the LAN.

Contact your System and Network Administrator before connecting to or changing the settings for your local area network.

1.2 List of icons

![Warning Sign:](image)  
Indicates an operation which require special attention.

![Note:](image)  
Indicates general remarks.

![No entry sign:](image)  
Identifies steps or actions strictly prohibited.

![Eye:](image)  
Inspect, Check.
2 - General remarks

All Evolis printers have the benefit of a TCP/IP network connection mechanism.

This feature is available as standard or as an option, depending on the model in the range.

**By default, the printer comes configured in DHCP mode** (Dynamic Host Configuration Protocol), which means that its IP address is supplied by the network. Besides, by default, Wi-Fi is disabled.

In addition to these basic settings, the network administrator has the option of configuring the printer differently in order to comply with the constraints imposed by the corporate LAN:

- Printer connected in a subnet, in DHCP.
- Printer connected within a subnet with fixed IP address, with WINS resolution.
- Printer connected within a subnet with fixed IP address, without WINS resolution.
- Printer connected in Wi-Fi.

The printer may be identified on the network according to:

- Its hostname (NETBIOS),
- Its IP address,
- Its serial number.

The user-definable settings are:

- The printer’s IP address,
- Subnet mask,
- Gateway,
- WINS server,
- Wireless connection settings

The following sections describe the procedures to be followed in order to configure the printer taking the specific features of the LAN / Wi-Fi into account.

The examples and screen images are from a Microsoft Windows environment, on the basis of which your System and Network Administrator will have full scope to configure the printer in other environments such as Mac OS X or Linux.

### 2.1 Interface characteristics

**Protocol:** 10Base-T / 100Base-T

**Speed:** 10Mbit/sec and 100Mbit/sec, automatic detection

**Connection:** Auto-MDX

**Link:** Half / Full duplex

**LED:**
- Green LED
  - On = 10Mbit/s
  - Off = 100Mbit/s
- Orange LED
  - On = Printer connected to network
  - Flasing = Printer connected and network traffic

### 2.2 TCP/IP Protocol

- IPv4 compatible
- IP address configured under DHCP (factory setting) or manually
- Raw mode printing uses the TCP/9100 port
- Name authentication is based on NBNS (NetBios Name Server)
- NBNS service via TCP for WINS resolution when the WINS server is configured.

When the IP address is static, the configuration relating to the gateway, subnet masks and WINS resolution is set manually.

When the printer is configured in DHCP mode, this data is supplied by the DHCP server.

### 2.3 Wi-Fi

Your printer may have an optional Wi-Fi interface. Out of factory, the wired interface is enabled and the Wi-Fi interface is disabled. See how to configure the printer on a Wi-Fi network on paragraph 5.2.2 Wireless, page 17.
2.4 MAC address

- Generated from the printer’s serial number with the Evolis 00-1A-FD header (Evolis OUI - Organisationally Unique Identifier).
- For example, for the serial number P07100001234, the MAC address is 00-01-FD-00-04-D2.
- 00-04-D2 is the hexadecimal transcription of the decimal value 001234.

MAC address is visible beneath the printer

2.5 Hostname

The printer name (hostname) is automatically set as EVO_NNN_XXXXXXXX, where:
- **EVO** is the root for Evolis products
- **NNN** varies with the printer model:
  - **PR1** for Primacy
  - **ZE1** for Zenius
- **XXXXXXXX** is obtained from the printer’s serial number, e.g. EVO_PR1_0001234 for serial number Z710001234

Hostnames are used by various naming systems. Evolis limits the hostname to 15 characters according to the Windows Netbios limitations: [http://support.microsoft.com/kb/909264/en-us](http://support.microsoft.com/kb/909264/en-us)

2.6 IGMP

Evolis uses IGMP frame to send query to all printers connected to the network. To use the discovery services offered by the Evolis Premium Suite, it is important that the network gateways support IGMP frames. To route Multicast traffic between two LANs, the gateway requires PIM Dense or PIM Sparse mode.


The default Evolis Multicast address is 224.69.86.79.
The installation of USB driver is not described in this manual. Once the Evolis Print Center is installed, follow the following instructions.

### 3.1 Network installation wizard

1. Launch the Evolis Print Center and click on **Tools**, then on **Network and/or Wi-Fi printer installation wizard**.

![Network installation wizard](image1.png)

**Figure 1: Network installation wizard**

2. The following windows opens:

![Welcome screen](image2.png)

**Figure 2: Welcome screen**

3. Follow the instructions of the wizard in order to install your printer.
4 - Printer configuration using escape commands

Administrators can also configure printers by means of ESCape commands. To do so, it is essential to install the printer and its USB driver beforehand, in order to have a direct connection available for dialogue.

4.1 Access to the printer dialogue menu

1. Open the **Evolis Print Center**.
2. Double click on the printer you want to dialog with.

![Figure 3: Access to the printer dialogue menu](image)

3. A properties window opens. Click on **Maintenance**.

![Figure 4: Printer's properties window](image)
4. In *Printer commands prompting* sub-menu, you can enter ESC commands in **Command** field.

![Printer's properties window](image)

**Figure 5: Printer’s properties window**

### 4.2 List of Escape commands

- **It is recommended to always read the contents or status of the printer before making any changes. Similarly, after any modification, check that new data is handled properly by reading it.**

To enter an escape sequence, fill the **Command** field with instructions described hereafter.

- **It is recommended to enter Escape commands via USB connection in order to avoid losing the connection.**

#### 4.2.1 General settings

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Read the printer's IP address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Command:</td>
<td>Rip;opt1</td>
</tr>
<tr>
<td>Parameters:</td>
<td>value 1 is optional, if set, it returns the dhcp status: &quot;Manual&quot; if the IP has been set manually or &quot;Auto&quot; if dhcp is activated.</td>
</tr>
<tr>
<td>Example:</td>
<td>Rip;1</td>
</tr>
<tr>
<td>Return:</td>
<td>IP adress (i.e. 192.168.1.10 Auto)</td>
</tr>
<tr>
<td>Note:</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Set the printer's IP address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Command:</td>
<td>Pip;par1</td>
</tr>
<tr>
<td>Parameters:</td>
<td>par1 is the IP address to be set, must be 4 digit separated by dot character '.' or it can be the string “dhcp” to enable DHCP service.</td>
</tr>
<tr>
<td>Example:</td>
<td>Pip;192.168.0.1 or Pip;dhcp</td>
</tr>
<tr>
<td>Return:</td>
<td>OK or ERROR CDE</td>
</tr>
<tr>
<td>Note:</td>
<td>When the IP address entered is set to 0.0.0.0 it disables the interface.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Read Mask address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Command:</td>
<td>Renm</td>
</tr>
<tr>
<td>Parameters:</td>
<td>-</td>
</tr>
<tr>
<td>Example:</td>
<td>-</td>
</tr>
<tr>
<td>Return:</td>
<td>Ethernet subnet mask (i.e. 255.255.255.0)</td>
</tr>
<tr>
<td>Note:</td>
<td>-</td>
</tr>
</tbody>
</table>
### Escape sequence: Read Hostname

**Command:** Rehn  
**Parameters:** -  
**Example:** -  
**Return:** Hostname (i.e. EVO_PR180023456)  
**Note:** -

### Escape sequence: Set Mask Address

**Command:** Penm;par1  
**Parameters:** par1 is ethernet subnet mask to be set, 4 numbers separated by dot character 
.  
**Example:** Penm;255.255.255.0  
**Return:** OK or ERROR PARAMETERS  
**Note:** When using DHCP, this subnet mask is given by DHCP server. This is useful only when IP address is set manually.

### Escape sequence: Read Gateway address

**Command:** Regw  
**Parameters:** -  
**Example:** -  
**Return:** Ethernet gateway IP address (i.e. 192.168.0.1)  
**Note:** -

### Escape sequence: Set Gateway address

**Command:** Pegw;par1  
**Parameters:** par1 is Gateway IP address to be set, 4 numbers separated by dot character 
.  
**Example:** Pegw;192.168.0.1  
**Return:** OK or ERROR PARAMETERS  
**Note:** When using DHCP, the gateway is given by DHCP server. This is useful only when IP address is set manually.

### Escape sequence: Read Win Server address

**Command:** Rews  
**Parameters:** -  
**Example:** -  
**Return:** WINS server IP address (i.e. 192.168.0.2)  
**Note:** -

### Escape sequence: Set Win Server address

**Command:** Pews;par1  
**Parameters:** par1 is WINS server IP address to be set, 4 numbers separated by dot character 
.  
**Example:** Pews;192.168.0.2  
**Return:** OK or ERROR PARAMETERS  
**Note:** When using DHCP, the WINS server is given by DHCP server. This is useful only when IP address is set manually. This is used to register the printer hostname, so in case of sub-network the printer is found faster.
Printer configuration using escape sequences

### Escape sequence: Read Multicast address

**Command:** `Rmip`

**Parameters:** `-`

**Example:** `-`

**Return:** `224.69.86.79`

**Note:** The multicast IP address (by default: 224.69.86.79) is used to discovery Evolis printers present on the network.

### Escape sequence: Set Multicast address

**Command:** `Pmip;par1`

**Parameters:** `par1` is Multicast IP address to be set, 4 numbers separated by dot character `. `.  

**Example:** `Pmip;224.69.86.79`

**Return:** `OK` or `ERROR PARAMETERS`

**Note:** Evolis recommends to not modify this parameter.

### Escape sequence: Restart network

**Command:** `Snetw`

**Parameters:** `-`

**Example:** `-`

**Return:** `-`

**Note:** Restart network with saved configuration. This command as the same effect as clicking on button "Restart Network" on printer web page.

## 4.2.2 Wi-Fi: General settings

### Escape sequence: Presence of Wi-Fi module

**Command:** `Rtp;w`

**Parameters:** `-`

**Example:** `-`

**Return:** `0 / 1`

**Note:** This command return `1` if the Wi-Fi module is present in your printer or `0` if it is not.

### Escape sequence: Read Wifi parameters

**Command:** `Rwifi;keyw`

**Parameters:** `keyw` is the parameter to be read.

**Example:** `-`

**Return:** The value of selected parameter or `ERROR PARAMETERS`

**Note:** See paragraph 4.2.3, page 14 for a list of keywords.

### Escape sequence: Set Wifi parameters

**Command:** `Pwifi;keyw;value`

**Parameters:** `keyw` is the parameter to be modify. 
`value` is the new value of selected parameter.

**Example:** `-`

**Return:** `OK` or `ERROR PARAMETERS`

**Note:** See paragraph 4.2.3, page 14 for a list of keywords.
**Escape sequence:** Send ATI command  
**Command:** `Cwifi;cmd`  
**Parameters:** `cmd` is the command to be send to the WiFi module.  
**Example:**  
**Note:** see [ATi_Programmers_Manual_8.40.pdf](ATi_Programmers_Manual_8.40.pdf)

**Escape sequence:** Wi-Fi module status  
**Command:** `Cwifi;RP2`  
**Parameters:**  
**Example:**  
**Return:** LAN-to-WiFi Bridge Mode when BRM>0: $*LAN/WIFI Bridge Mode,<LAN Status>,<WIFI status>*$  
Where,  
- `<LAN Status>`  
  0 – No Link  
  1 – Link OK  
- `<WIFI Status>`  
  1 – Not Connected  
  2 – Connecting  
  4 – Connected  
**Note:**  

**Escape sequence:** List of all Wi-Fi networks available  
**Command:** `Cwifi;RP20`  
**Parameters:**  
**Example:**  
**Return:** List of up to 16 APs and Ad-Hoc networks available in the surrounding area. Each line contains the following comma-separated fields: `<SSID>,ADHOC|AP ,<BSSID>,<security type>,<channel>,<RSSI>`  
  - `<security type>` = NONE or WEP64 or WEP128 or WPA or WPA2  
  - `<RSSI>` = Value between 0-255 which represents SNR+NoiseFloor. Higher SSI values indicate weaker signal strength.  
**Note:**  

---

**Note:**  
**Return:** List of up to 16 APs and Ad-Hoc networks available in the surrounding area. Each line contains the following comma-separated fields: `<SSID>,ADHOC|AP ,<BSSID>,<security type>,<channel>,<RSSI>`  
  - `<security type>` = NONE or WEP64 or WEP128 or WPA or WPA2  
  - `<RSSI>` = Value between 0-255 which represents SNR+NoiseFloor. Higher SSI values indicate weaker signal strength.  
**Note:**
4.2.3 Wi-Fi: Rwifi and Pwifi Keywords list

The following keywords are to be entered in the command field instead of keyw and value parameters of Rwifi and Pwifi settings.

These keywords are case sensitive.

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Read all Wifi parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyword:</td>
<td>all</td>
</tr>
<tr>
<td>Parameters:</td>
<td>keyw is the parameter to be modify. value is the new value of selected parameter.</td>
</tr>
</tbody>
</table>

Example: Rwifi;all

Return: All Wifi parameters. Example:
- RP0;CO2128-D
- RP1;ID807p03 30.6.2
- RP5;14061A98
- MACA;001AFD00146A
- MDE;2
- WLCH;11
- WSI0;NETGEAR_BE
- WST0;4
- WKY0;
- WPP0;***********
- EUSN;
- EPSW;

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Read all Wifi parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyword:</td>
<td>MDE</td>
</tr>
<tr>
<td>Value:</td>
<td>0: Disable 1: Connection in AdHoc mode, The printer creates a WiFi network with SSID configured in WSI0 (non secured or WEP available). Then set static IP. 2: The printer connects to a WiFi network with SSID configured in WSI0.</td>
</tr>
</tbody>
</table>

Example: Rwifi;MDE or Pwifi;MDE;2

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Wireless LAN Communication Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyword:</td>
<td>WLCH</td>
</tr>
<tr>
<td>Value:</td>
<td>1 to 13: When the wireless interface is configured to operate in Ad-Hoc mode, this parameter must be given a value between 1 and 13 that defines the channel to be used for beacon transmission. When the wireless interface joins an already existing Ad-Hoc network, it adopts that network’s channel.</td>
</tr>
</tbody>
</table>

Example: Rwifi;WLCH or Pwifi;WLCH;11

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Wireless LAN Service Set Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyword:</td>
<td>WSI0</td>
</tr>
<tr>
<td>Value:</td>
<td>The destination Wireless LAN Service Set Identifier (SSID) string. SSID required for communications with a specific WLAN Access Point (AP) or Ad-Hoc. The access point must be configured with the same SSID.</td>
</tr>
</tbody>
</table>

Example: Rwifi;WSI0 or Pwifi;WSI0;Name_Of_SSID
<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Wireless LAN Security Type Array</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyword:</td>
<td>WST0</td>
</tr>
<tr>
<td>Value:</td>
<td>The Wireless LAN security type for each individual SSID in the array.</td>
</tr>
<tr>
<td></td>
<td>0: No security</td>
</tr>
<tr>
<td></td>
<td>1: WEP 64</td>
</tr>
<tr>
<td></td>
<td>2: WEP 128</td>
</tr>
<tr>
<td></td>
<td>3: WPA-PSK with TKIP encryption</td>
</tr>
<tr>
<td></td>
<td>4: WPA2-PSK with TKIP or AES encryption</td>
</tr>
<tr>
<td></td>
<td>105: WPA-TKIP Enterprise with EAP-TLS or PEAPMSCHAPv2. RADIUS Certification Verification will be skipped</td>
</tr>
<tr>
<td></td>
<td>106: WPA2-AES Enterprise with EAP-TLS or PEAPMSCHAPv2. RADIUS Certification Verification will be skipped</td>
</tr>
<tr>
<td>Example:</td>
<td>Rwifi;WST0 or Pwifi;WST0;4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Wireless LAN WEP Key Array</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyword:</td>
<td>WKY0</td>
</tr>
<tr>
<td>Value:</td>
<td>The Wireless LAN WEP keys in the 4-slot WEP key array. Value must be a Hexadecimal representation string, where each byte is described by 2 ASCII characters in the range [0'..'9'], [A'..'F'] or [a'..'f']. When using 64-bit WEP (WST0=1), key may contain 10 characters (defining 5 bytes). When using 128-bit WEP (WST0=2), key may contain 26 characters (defining 13 bytes).</td>
</tr>
<tr>
<td>Example:</td>
<td>Rwifi;WKY0 or Pwifi;WKY0;WepKey</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Wireless Personal Shared Key Pass-Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyword:</td>
<td>WPP0</td>
</tr>
<tr>
<td>Value:</td>
<td>The wireless LAN WPA-PSK pass-phrase. For WPA2, the WSEC parameter must be set as well. If WSI0 (SSID) is not empty, WPA-PSK security is enabled for WiFi connections and pass is used in generating the WPA-PSK encryption key. The allowed value for pass is an ASCII string containing 8-63 characters.</td>
</tr>
<tr>
<td>Example:</td>
<td>Rwifi;WPP0 or Pwifi;WPP0;WpaPassphrase</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Domain and User name for WPA/WPA2 Enterprise mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyword:</td>
<td>EUSN</td>
</tr>
<tr>
<td>Value:</td>
<td>Sets the login user name to be used for WPA/WPA2 Enterprise. This parameter takes effect following either a hardware or software reset only. A change to this parameter during the wireless interface operation does not affect the current connection.</td>
</tr>
<tr>
<td>Example:</td>
<td>Rwifi;EUSN or Pwifi;EUSN;Login_of_user</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Escape sequence:</th>
<th>Password for WPA/WPA2 Enterprise mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyword:</td>
<td>EPSW</td>
</tr>
<tr>
<td>Value:</td>
<td>Sets the password to be used for WPA/WPA2 Enterprise. This parameter takes effect following either a hardware or software reset only. A change to this parameter during the wireless interface operation does not affect the current connection.</td>
</tr>
<tr>
<td>Example:</td>
<td>Rwifi;EPSW or Pwifi;EPSW;Password_of_user</td>
</tr>
</tbody>
</table>
5 - Evolis printer configuration settings

5.1 Access to the administration web page

Each printer has an embedded web server which can be used to display configuration data.

The administration page is reached by entering the IP address into your web browser. The address of the printer’s integrated web server is determined as follows:

- The printer’s hostname must be entered in lower case.
  - For example, for a printer having hostname «EVO_PR1_0023456», enter http://evo_pr1_0023456.
  - The IP address may be entered if you don’t know the printer’s hostname, enter http://xxx.yyy.zzz.ttt (i.e. 192.168.2.13).

If you don’t know the hostname or the IP address, please refer to the TCP/IP Protocol subsection of this section for further details on how the hostname is structured.

5.2 Viewing the settings

Some of this data can also be changed using this same interface.

Two web pages display all the network settings. The tab “Network” to configure the TCP/IP parameters and the tab “Wireless” to configure the Wi-Fi parameters.

5.2.1 Network

![Network Interface](image)

On the Network web interface, you can enable or disable the DHCP mode. When the DHCP mode is enabled, only IP Multicast field can be filled.

Other fields can be filled only if DHCP mode is disabled.
5.2.2 Wireless

Figure 7: Web interface - Wireless

On the Wireless web interface, you can enable or disable the Wi-Fi. When the Wi-Fi is disabled, no field can be filled.

If the Wireless mode is enabled, usual wireless settings can be configured.

When setting mode other than Disable, the wired connection becomes disable.
6 - Examples of printer configuration

In this section, you will find six configuration examples illustrating the settings to be configured, along with the search method and selection of the printer on the network.

This list is not exhaustive, and your network administrator is free to contact your Evolis reseller for further information.

6.1 Configuring a printer in DHCP mode, located on a sub-network

6.1.1 With the embedded web server
1. Open the web server page.
2. Click on Network tab.
3. Check the DHCP checkbox to enable the DHCP mode.
4. Click on Restart Network button.
6.1.2 With escape commands

1. Open the Evolis Print Center and right-click on the printer you want to configure, then on properties.
2. In the printer properties window, click on Maintenance.
3. In Command field, type sequentially:
   - Pip;dhcp
   - Snetw.
   - Check your configuration by typing Rip;1. The result should be: 192.168.2.13 Auto
6.2 Configuring a printer with a static IP address, on a subnet with WINS resolution

6.2.1 With the embedded web server

1. Open the web server page.
2. Click on Network tab.
3. Uncheck the DHCP checkbox to disable the DHCP mode.
4. Complete the fields IP address and WINS, you also have to complete Subnet mask and Gateway fields.
5. Click on Restart Network button.
6.2.2 With escape commands

1. Open the Evolis Print Center and right-click on the printer you want to configure, then on properties.

2. In the printer properties window, click on **Maintenance**.

3. In Command field, type sequentially:
   - Pip;192.168.2.13
   - Pews;192.168.1.2
   - Penm;255.255.255.0
   - Pegw;192.168.1.6
   - Snetw.
   - Check your configuration by typing:
     - **Rip;** The result should be: **192.168.2.13 Manual**
     - **Rews** The result should be: **192.168.1.2**
     - **Renm** The result should be: **255.255.255.0**
     - **Regw** The result should be: **192.168.1.6**
6.3 Configuring a printer with a static IP address, on a subnet without WINS resolution

6.3.1 With the embedded web server

1. Open the web server page.
2. Click on Network tab.
3. Uncheck the DHCP checkbox to disable the DHCP mode.
4. Complete the IP address, Subnet mask, and Gateway fields.
5. Complete the field WINS with 0.0.0.0
6. Click on Restart Network button.
6.3.2 With escape commands

1. Open the Evolis Print Center and right-click on the printer you want to configure, then on properties.

2. In the printer properties window, click on **Maintenance**.

3. In Command field, type sequentially:
   - `Pip;192.168.2.13`
   - `Pews;0.0.0.0`
   - `Penm;255.255.255.0`
   - `Pegw;192.168.1.6`
   - `Snetw`.
   - Check your configuration by typing:
     - `Rip;1`. The result should be: **192.168.2.13 Manual**
     - `Rews` The result should be: **0.0.0.0**
     - `Renm` The result should be: **255.255.255.0**
     - `Regw` The result should be: **192.168.1.6**
6.4 Configuring a printer in Wi-Fi mode - Ad hoc with no security

6.4.1 With the embedded web server
1. Open the web server page.
2. Click on Network tab.
3. Uncheck the DHCP checkbox to disable the DHCP mode.
4. Complete the IP address and Subnet mask fields.
5. Click on Wireless tab.
7. Complete the Channel and SSID fields and set the Security field to None.
8. Click on Restart Network button.

![Evolis Embedded Web Server]

Figure 14: Web server (Wi-Fi - Ad hoc)

6.4.2 With escape commands
1. Open the Evolis Print Center and right-click on the printer you want to configure, then on properties.
2. In the printer properties window, click on Maintenance.
3. In Command field, type sequentially:
   - Pip;192.168.2.13
   - Penm;255.255.255.0
   - Pwifi;MDE;1
   - Pwifi;WLCH;#Channel (i.e. 11) where #Channel is the channel of WiFi signal (between 1 and 13).
   - Pwifi;WSI0;Name_Of_SSID (i.e. WiFiTest)
   - Pwifi;WST0;0
   - Snetw
   - Check your configuration by typing:
     - Rip;1. The result should be: 192.168.2.13 Manual
     - Rwifi;all You should verify that the previous parameters are correctly set.
6.5 Configuring a printer in Wi-Fi mode - Access point with Wep 128 bits security and static IP address

6.5.1 With the embedded web server
1. Open the web server page.
2. Click on Network tab.
3. Uncheck the DHCP checkbox to disable the DHCP mode.
4. Complete the IP address and Subnet mask fields.
5. Click on Wireless tab.
6. Choose Access point in Mode field.
7. Complete the Channel and SSID fields.
8. Set the Security field to Wep_128 and complete the WEP Key field (it may contain 10 or 26 hexadecimal characters).
9. Click on Restart Network button.

![Web server (Wi-Fi - Access point - Wep 128)](image)

Figure 15: Web server (Wi-Fi - Access point - Wep 128)

6.5.2 With escape commands
1. Open the Evolis Print Center and right-click on the printer you want to configure, then on properties.
2. In the printer properties window, click on Maintenance.
3. In Command field, type sequentially:
   - Pip;192.168.2.13
   - Penm;255.255.255.0
   - Pwifi;MDE;2
   - Pwifi;WLCH;#Channel (i.e. 11) where #Channel is the channel of WiFi signal (between 1 and 13).
   - Pwifi;WSI0;Name_Of_SSID (i.e. WiFiTest)
   - Pwifi;WST0;0 to Disable security before send a new setting
   - Pwifi;WKY0;WEP_KEY (i.e. wepkey1234) where WEP_KEY may contain 10 or 26 hexadecimal characters
   - Pwifi;WST0;2
   - Snetw
4. Check your configuration by typing:
   - Rip;1. The result should be: 192.168.2.13 Manual
   - Rwifi;all You should verify that the previous parameters are correctly set.
Examples of printer configuration

6.6 Configuring a printer in Wi-Fi mode - Access point with WPA-AES security and IP adress in DHCP mode

6.6.1 With the embedded web server
1. Open the web server page.
2. Click on Network tab.
3. Check the DHCP checkbox to enable the DHCP mode.
4. Click on Wireless tab.
5. Choose Access point in Mode field.
6. Complete the Channel and SSID fields.
7. Set the Security field to WPA2-PSK [AES] and complete the WPA Pass-Phrase field (8 to 63 characters).
8. Click on Restart Network button.

Figure 16: Web server (Wi-Fi - Access point - WPA-AES)

6.6.2 With escape commands
1. Open the Evolis Print Center and right-click on the printer you want to configure, then on properties.
2. In the printer properties window, click on Maintenance.
3. In Command field, type sequentially:
   - Pip;dhcp
   - Pwifi;MDE;2
   - Pwifi;WLCH;#Channel (i.e. 11) where #Channel is the channel of WiFi signal (between 1 and 13).
   - Pwifi;WSI0;Name_OfSSID (i.e. WiFiTest)
   - Pwifi;WST0;0 to Disable security before send a new setting
   - Pwifi;WPP0;Keyphrase (i.e. WPAPassphrase123456789) where Keyphrase contains 8 to 63 characters
   - Pwifi;WST0;4
   - Snetw
   - Check your configuration by typing:
     - Rip;1. The result should be: 192.168.2.13 Auto
     - Rwifi;all You should verify that the previous parameters are correctly set.