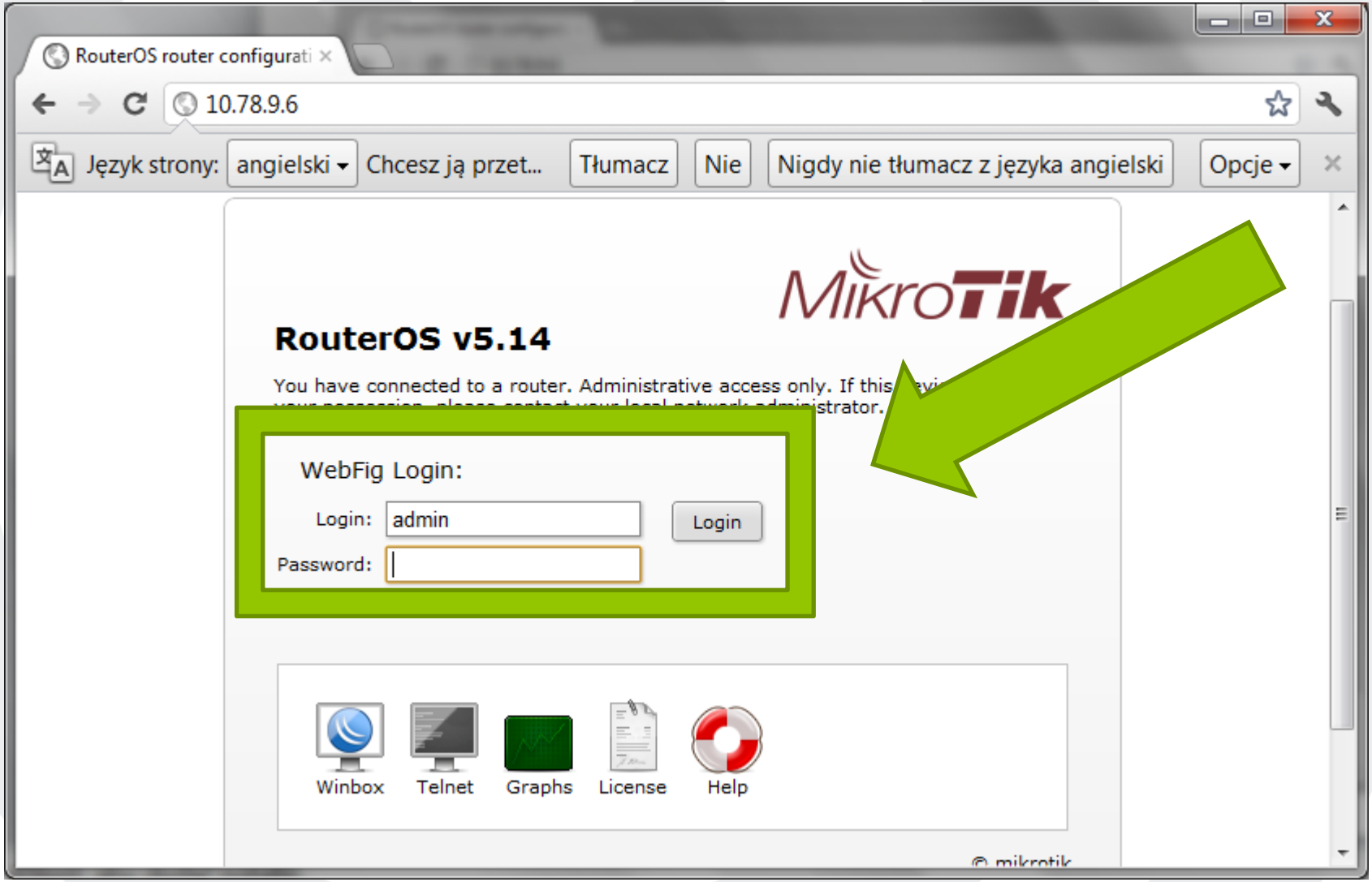
IP-PRO
NETWORK CONSULTING

WEB-SKINS

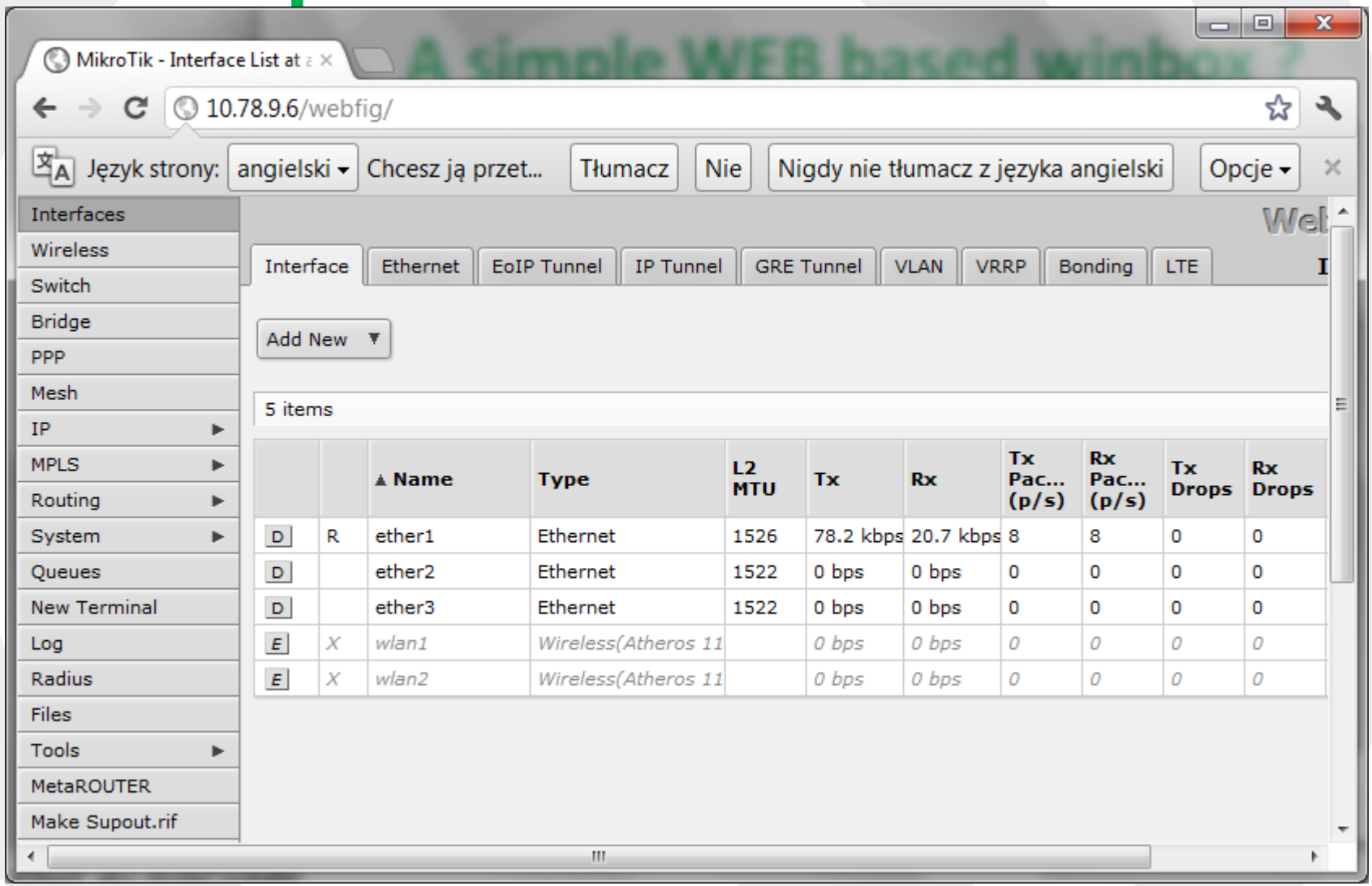
Idea, usage and examples

Another Interface ?



IP-PRO
NETWORK CONSULTING

A simple WEB based winbox ?



IP-PRO NETWORK CONSULTING

What are Skins ?

Its a feature that will allow some extra functionality we do not have in winbox like:

- Enabling / Disabling every single field
- Creating and Customize Status page
- Translate interface to your Language
- Limit possible options in combo boxes
- Put Notes and explenations

IP-PRO NETWORK CONSULTING

Why do I need that ?

Lets start with some use cases:

- **Giving limited Access to device**
- Giving status access to device
- Simplify Configuration for Customers
- Translate Interface to your Language

IP-PRO
NETWORK CONSULTING

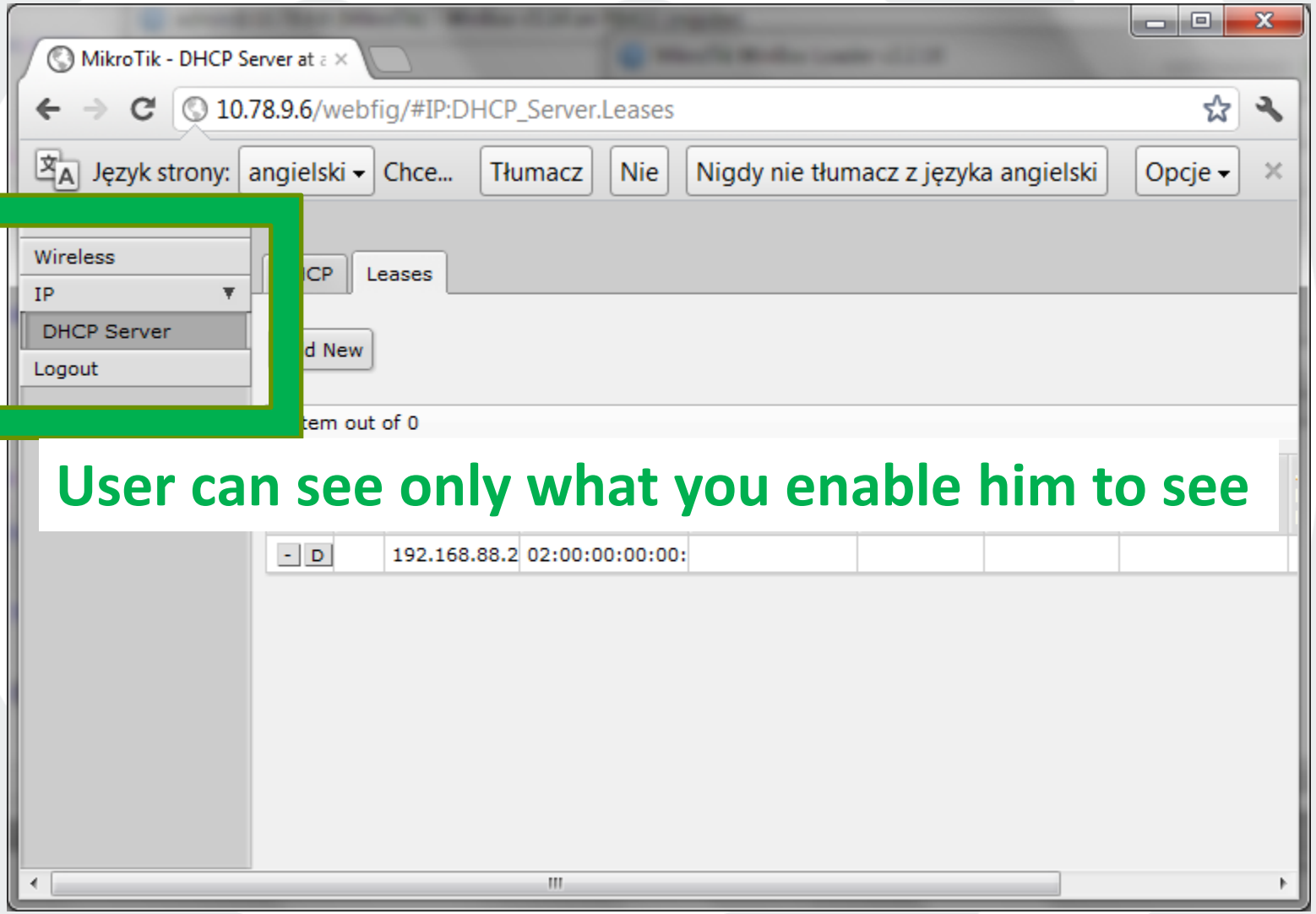
Giving limited Access to device

Use case:

ISP wants to give limited access to CPE to his customer for:

- Check signal strenght in wireless interface
- Allow to control Leases in DHCP-Server

Giving limited Access to device



User can see only what you enable him to see

IP-PRO NETWORK CONSULTING

Why do I need that ?

Lets start with some use cases:

- Giving limited Access to device
- **Giving status access to device**
- Simplify Configuration for Customers
- Translate Interface to your Language

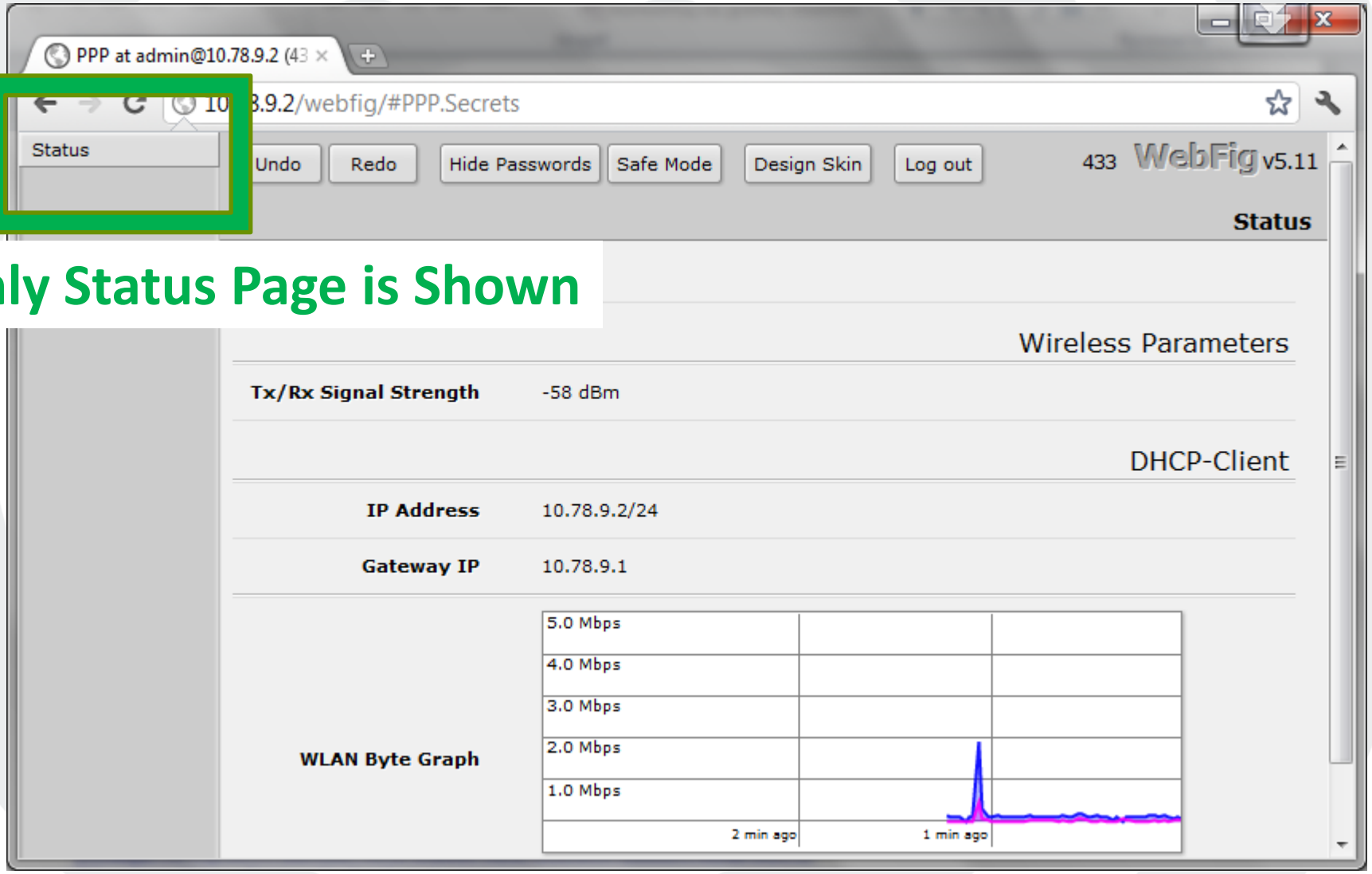
Giving status access to device

Use case:

ISP wants to give read only access to CPE but only to certain parameters:

- Check some parameters like signal or IP

Giving status access to device



Only Status Page is Shown

IP-PRO NETWORK CONSULTING

Why do I need that ?

Lets start with some use cases:

- Giving limited Access to device
- Giving status access to device
- **Simplify Configuration for Customers**
- Translate Interface to your Language

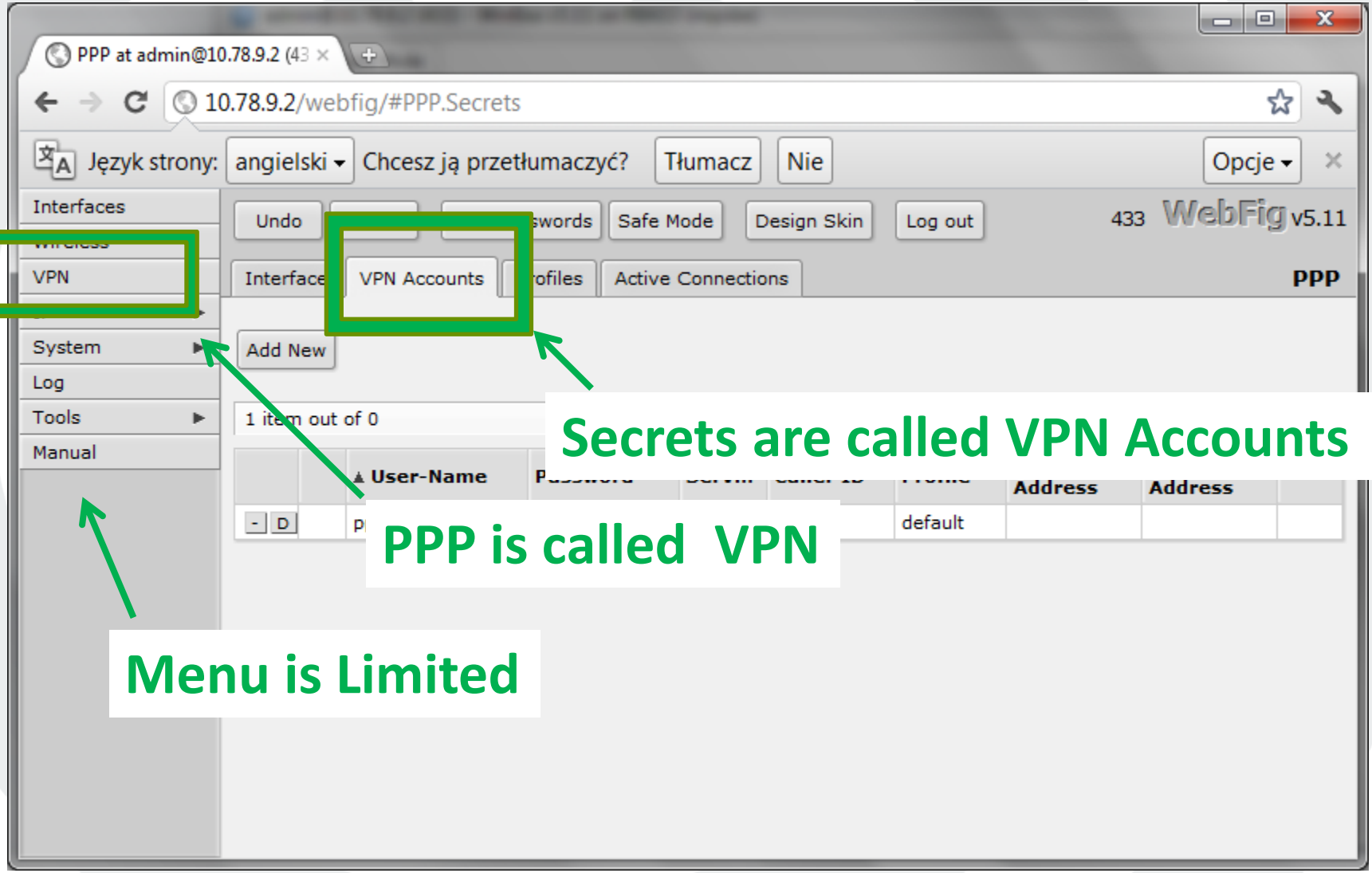
IP-PRO
NETWORK CONSULTING

Simplify Configuration for Customers

Use case:

Want to sell Mikrotik Router to non experience Person and give him Interface that is easier then Winbox itself

Simplify Configuration for Customers



IP-PRO NETWORK CONSULTING

Why do I need that ?

Lets start with some use cases:

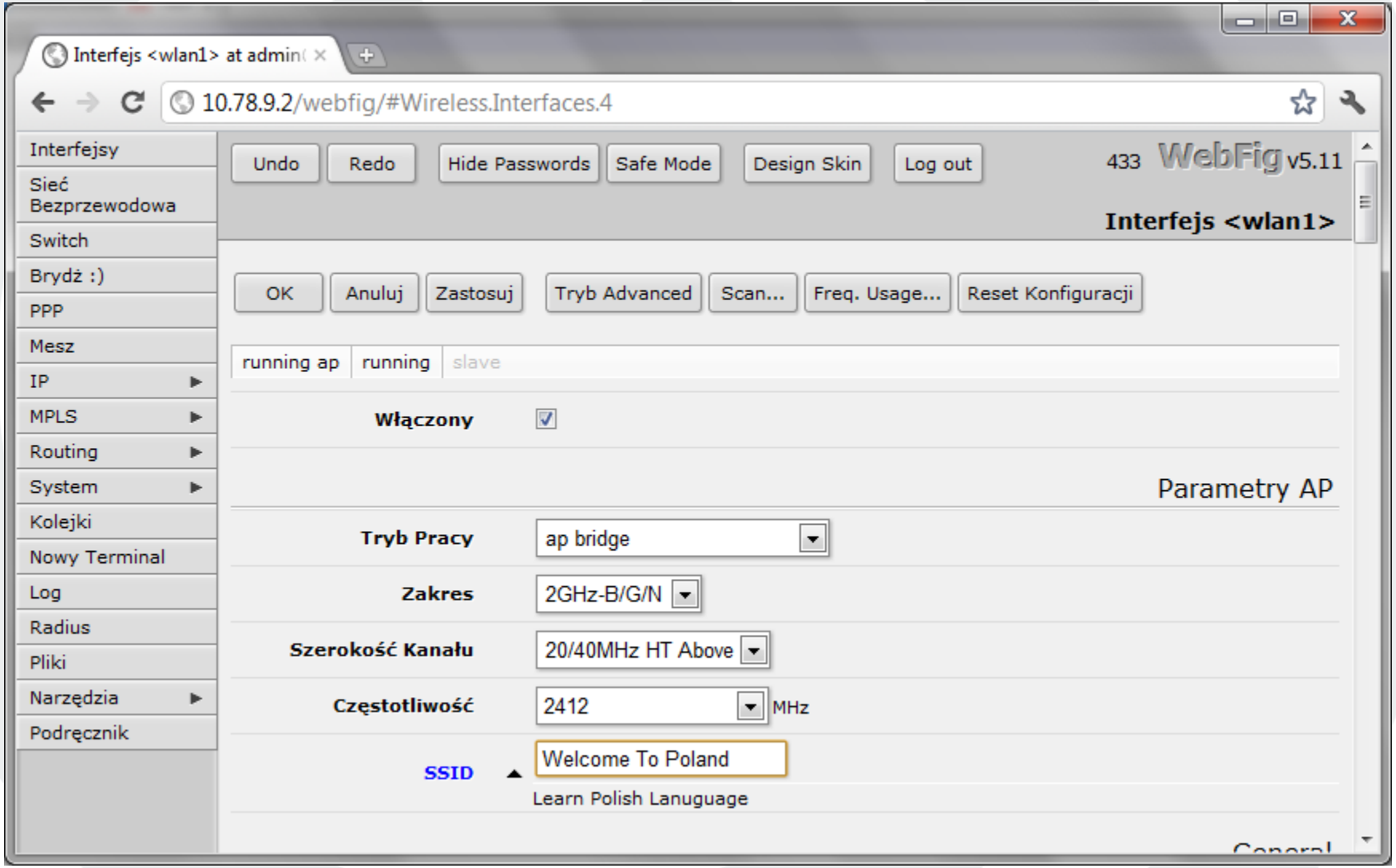
- Giving limited Access to device
- Giving status access to device
- Simplify Configuration for Customers
- **Translate Interface to your Language**

Translate Interface

Use case:

Your employees / customers / network operator are not very good with English Language. Translate it to them :)

Translate Interface

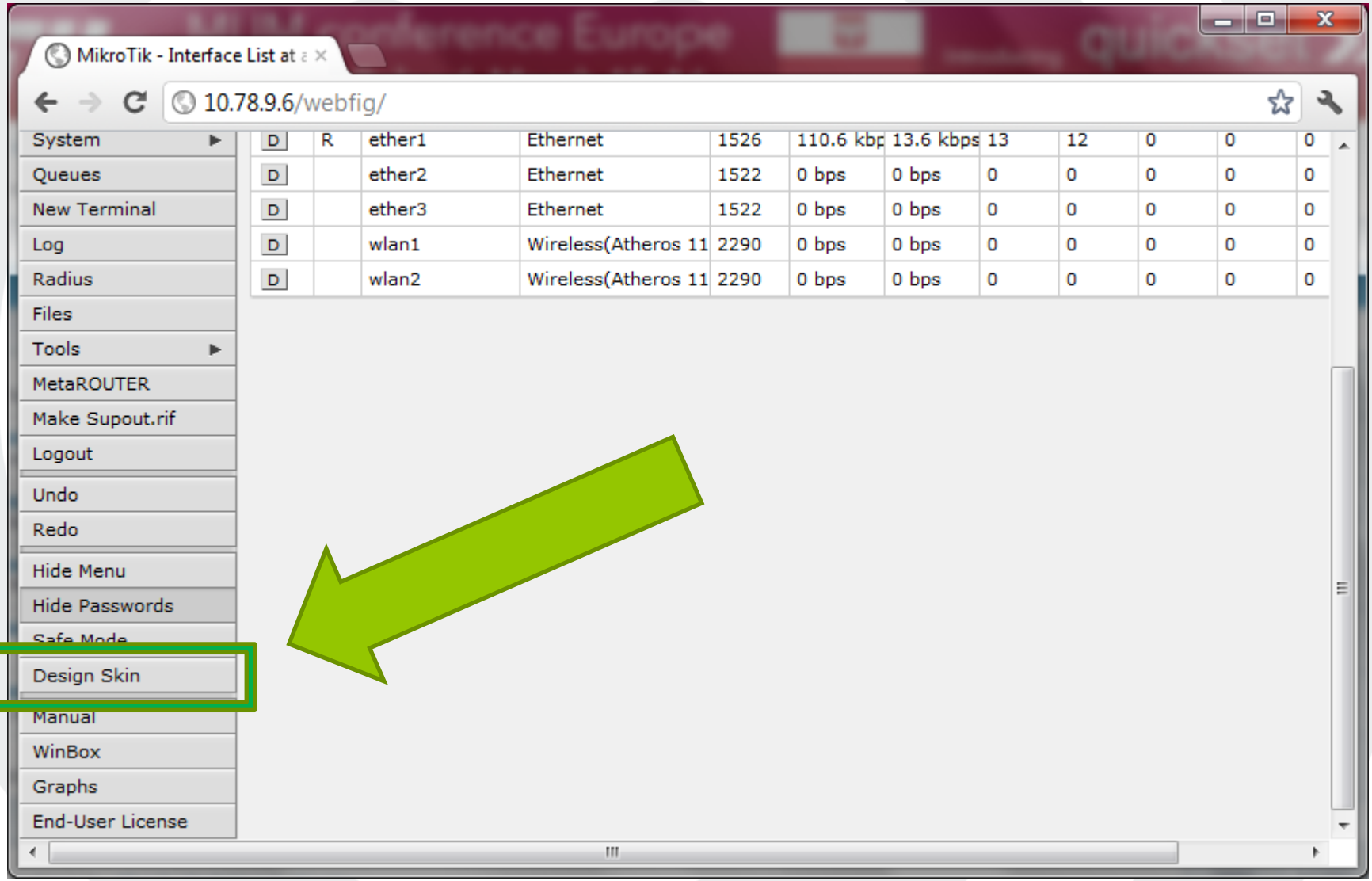


IP-PRO
NETWORK CONSULTING

What you should now about Skins

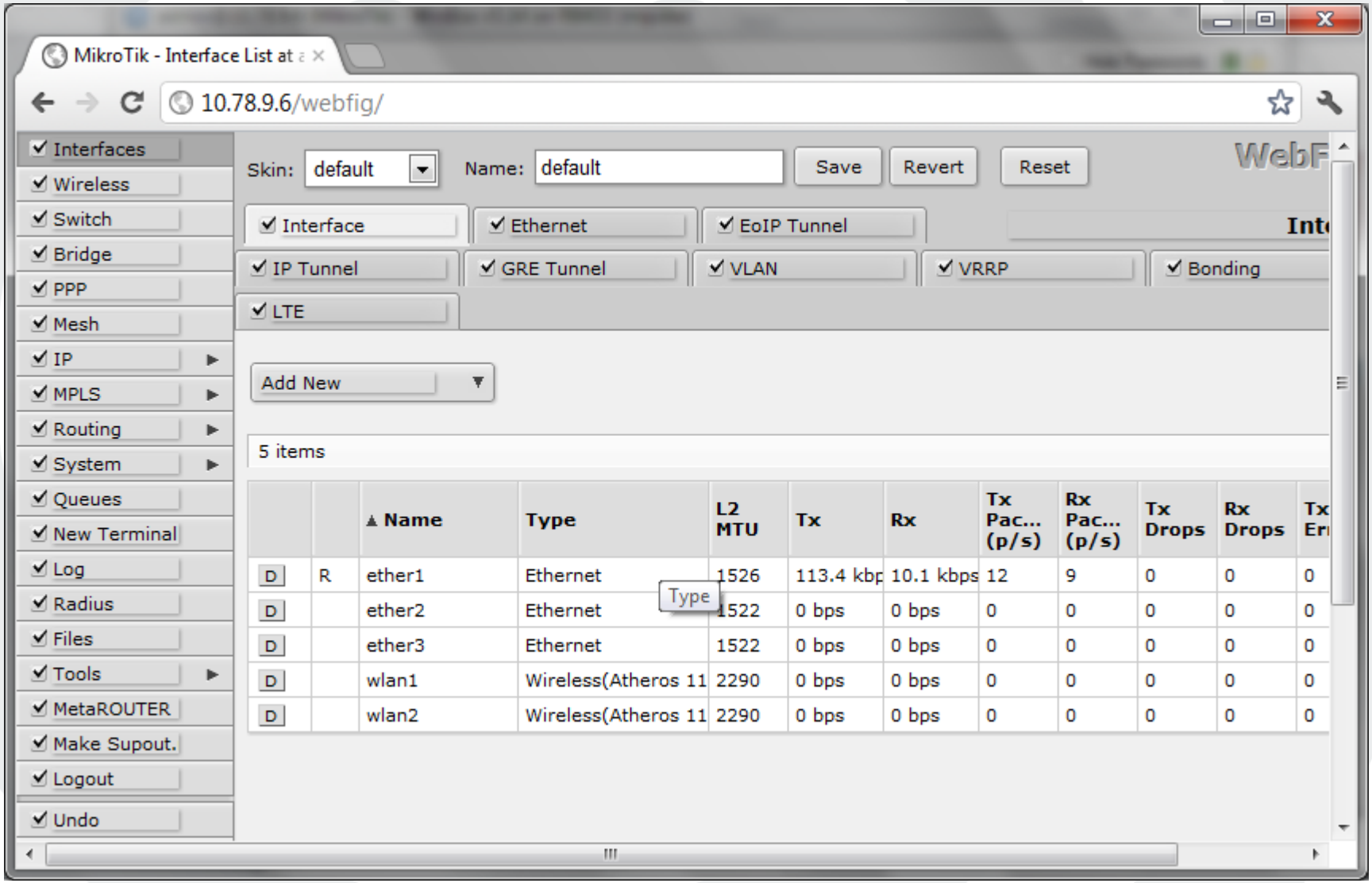
- How to create them
- How to apply them
- What are:
  - Separators,
  - Tabs,
  - Limits
  - Notes

How to Create Skins

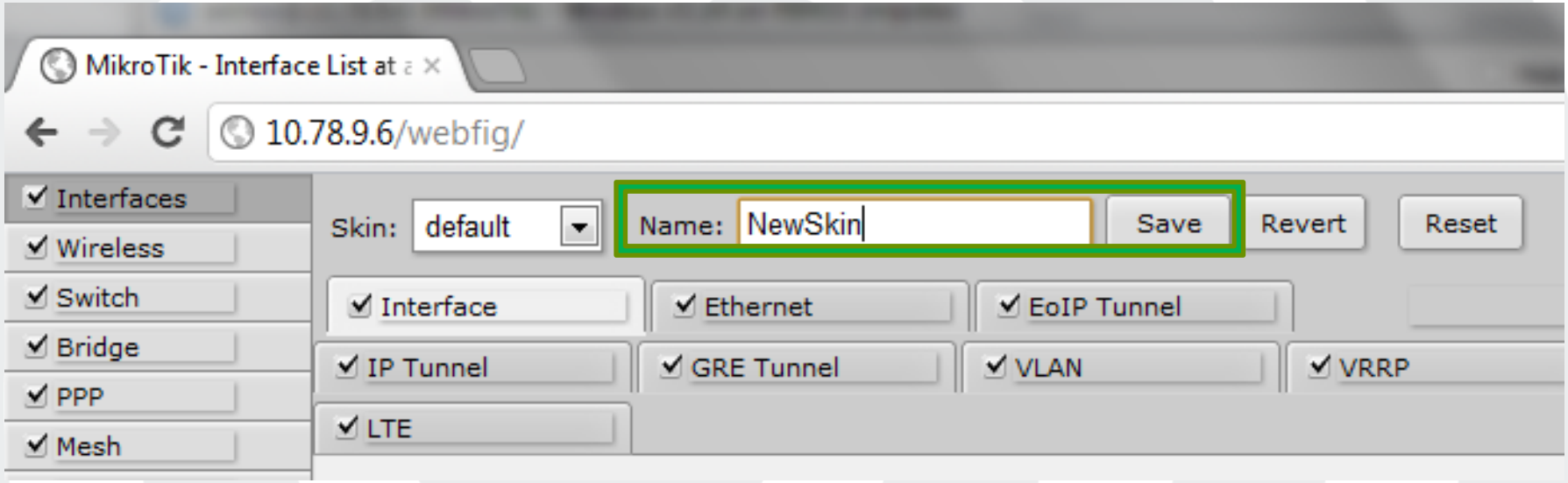


IP-PRO
NETWORK CONSULTING

How to Create Skins

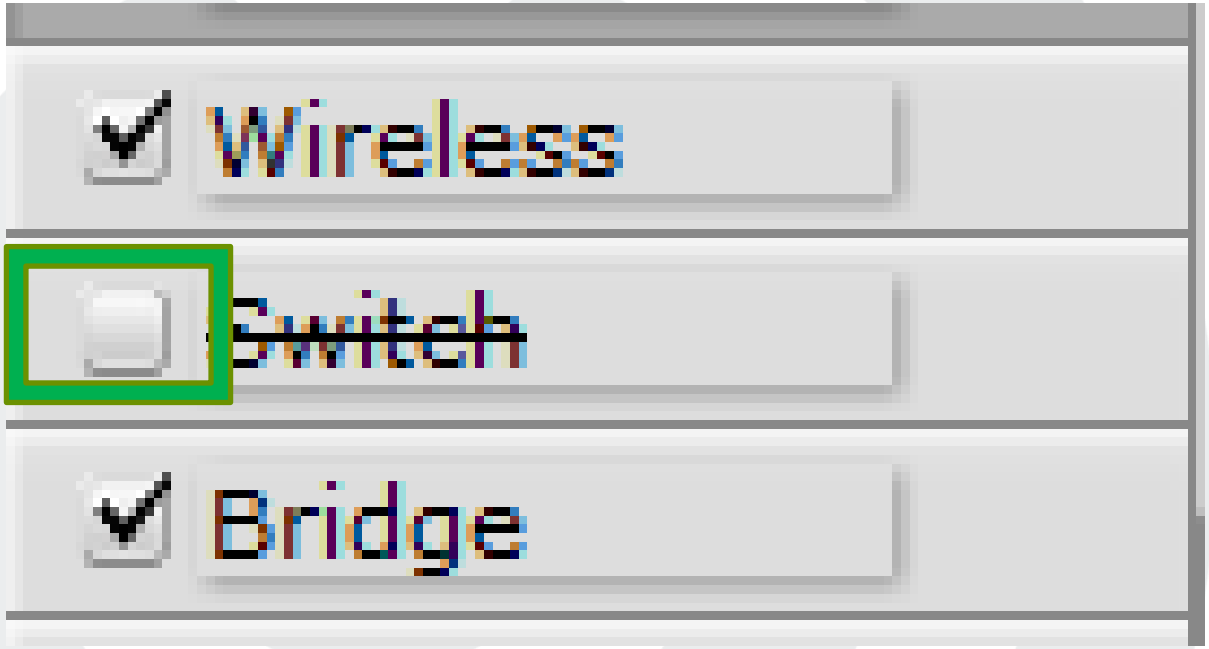


How to Create Skins



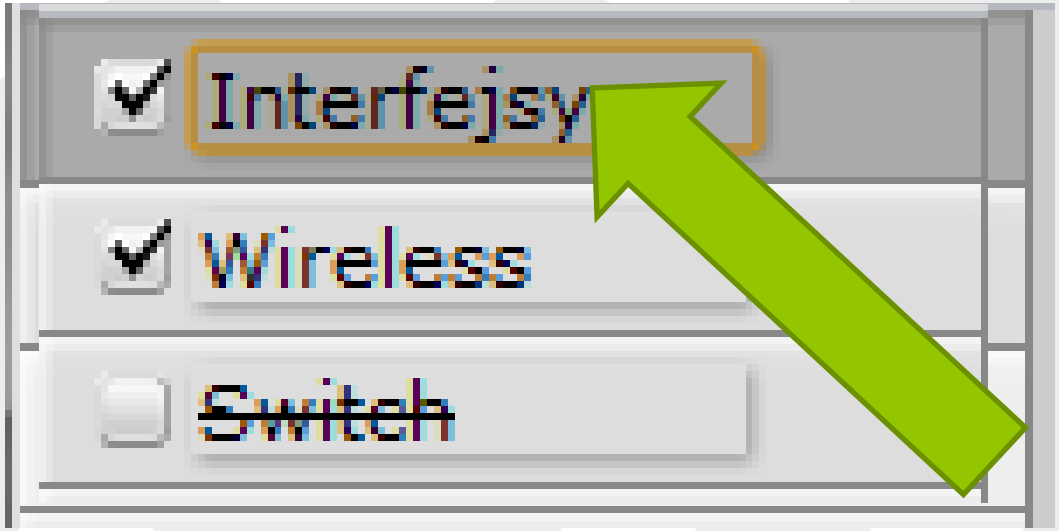
- First of All create new SKIN by setting its name and pressing Save Button

How to Create Skins



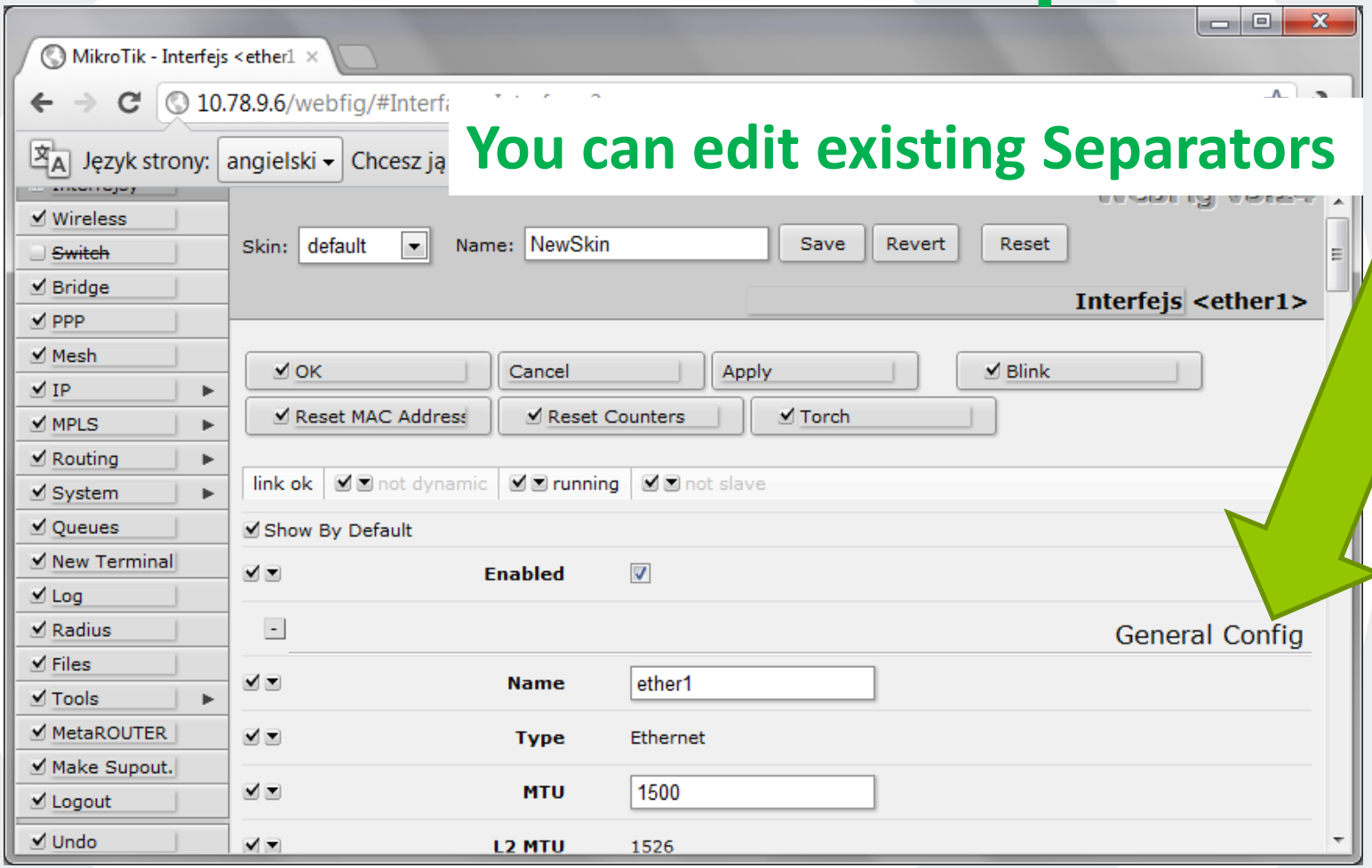
- Start with enabling and disabling some options in new skins
- Disabled option will not be visible in that SKIN

How to Create Skins

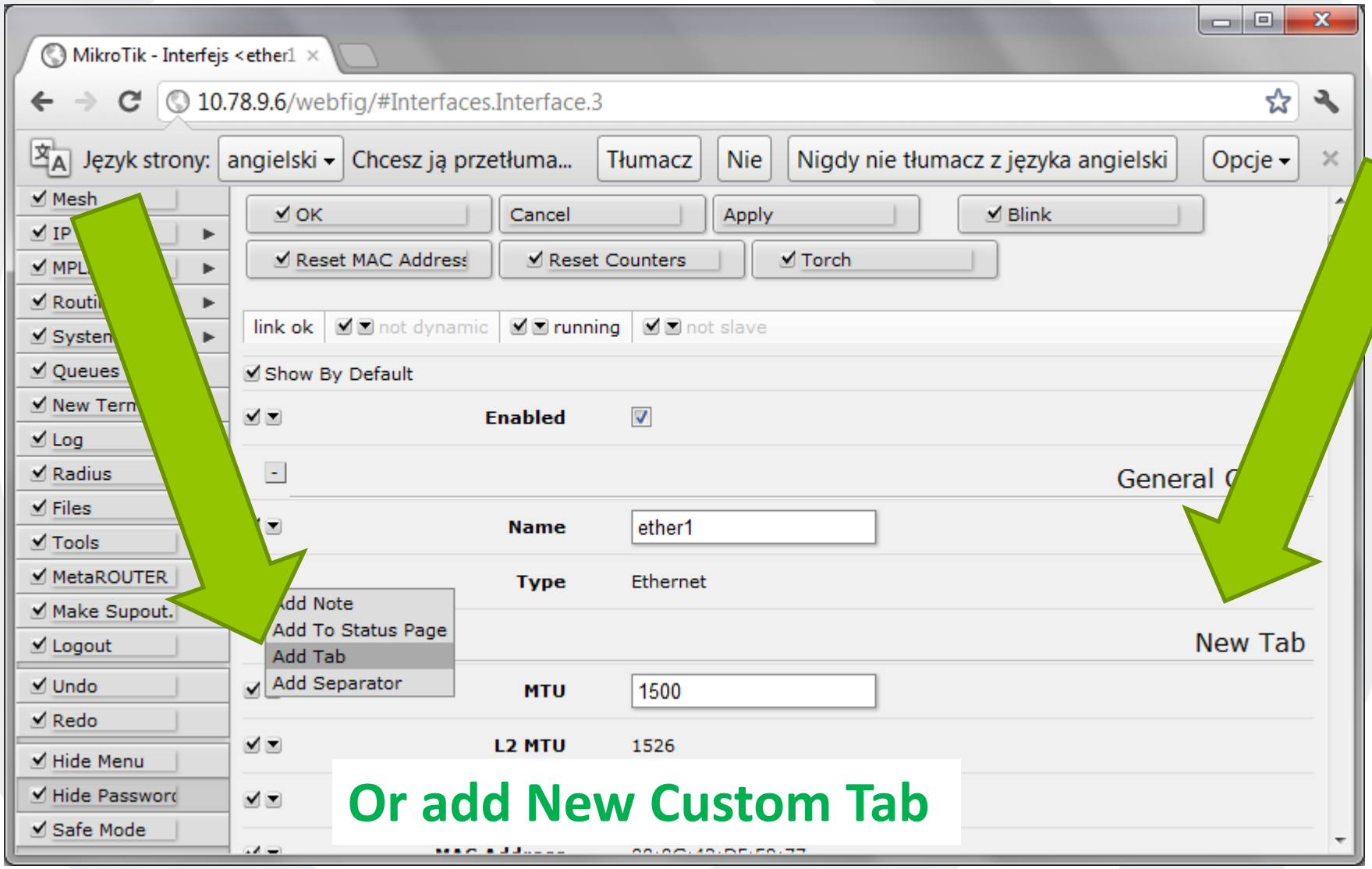


- In Design Mode you can click on text and replace it to you own text

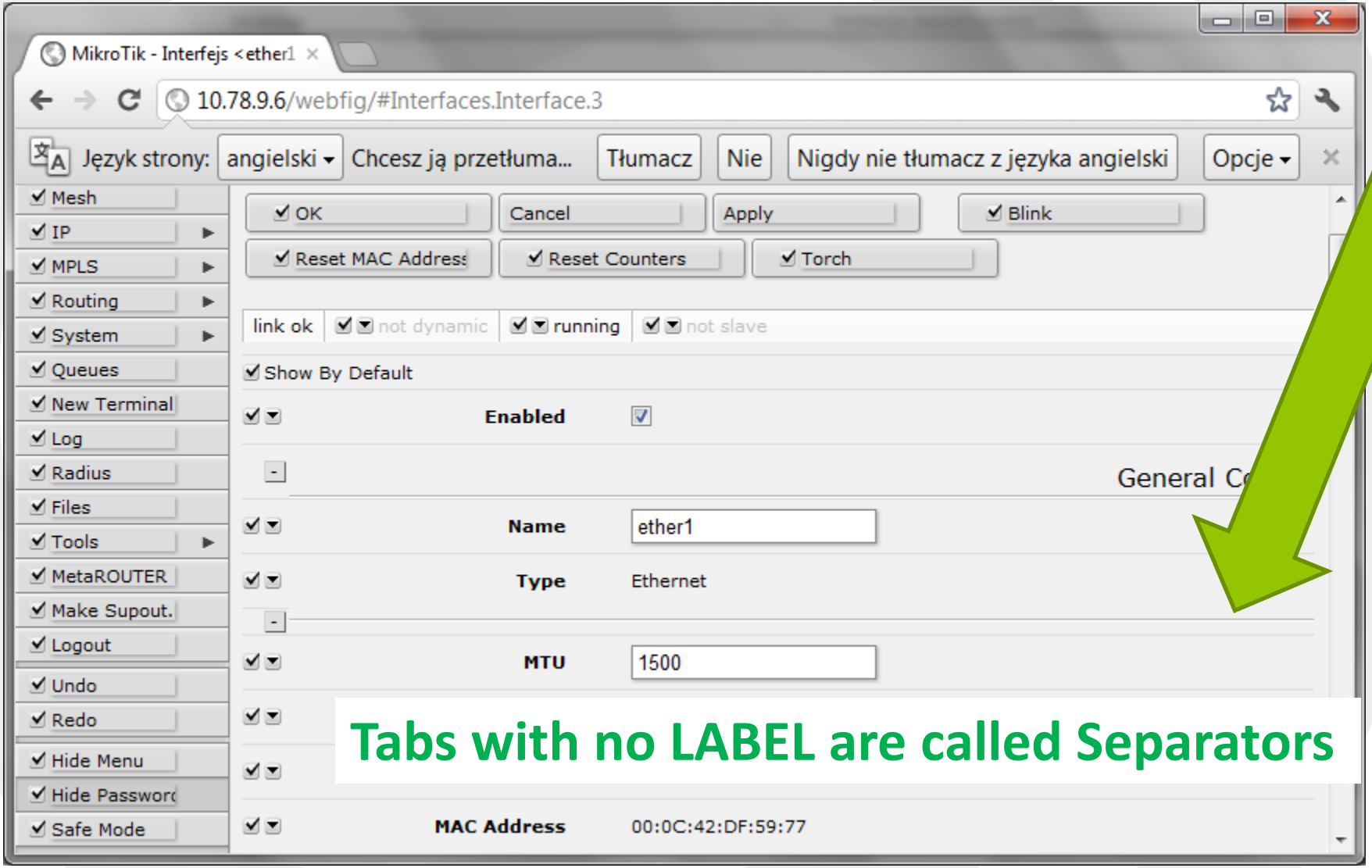
How to Create Skins - Separators



How to Create Skins - TABS

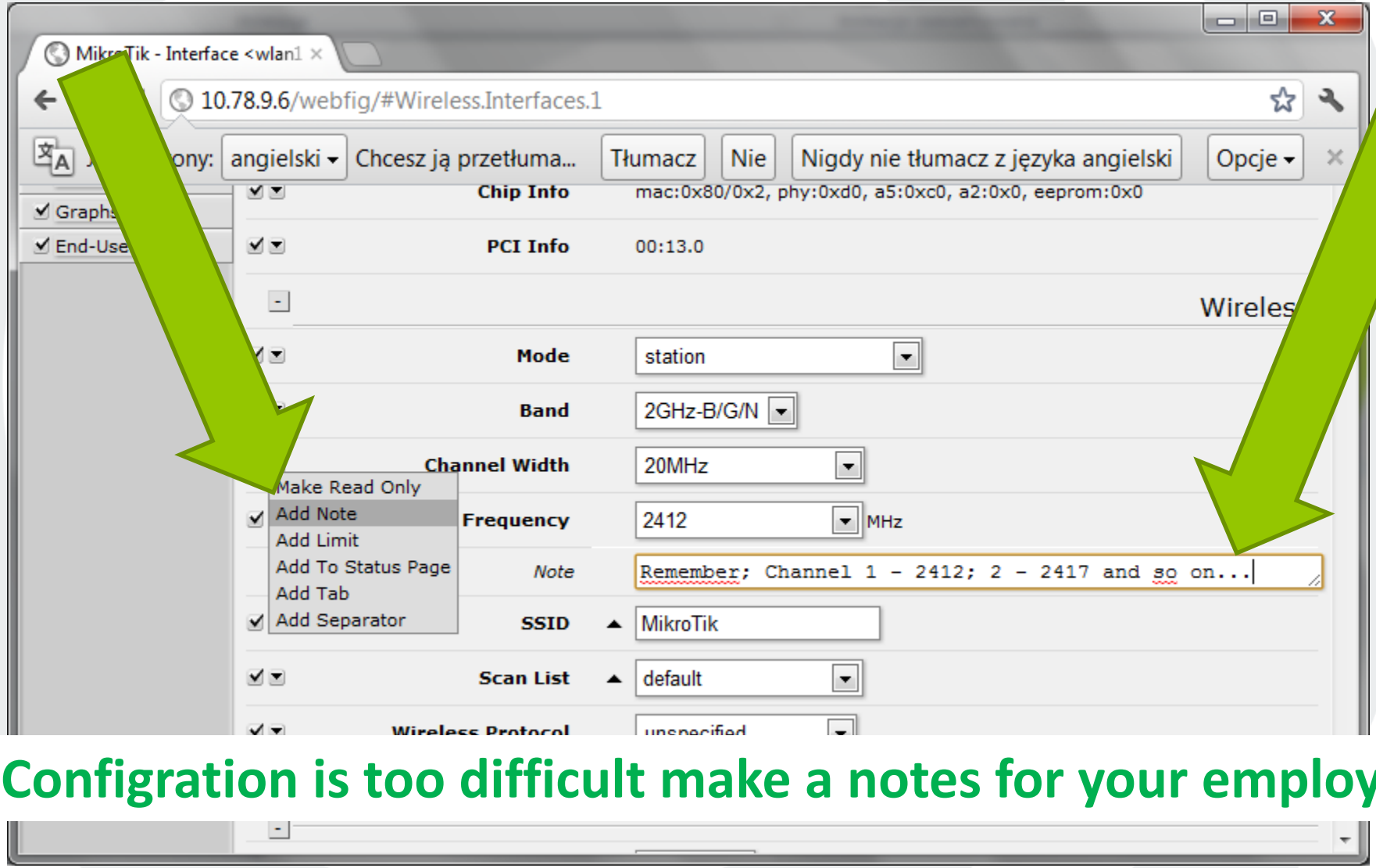


How to Create Skins - TABS



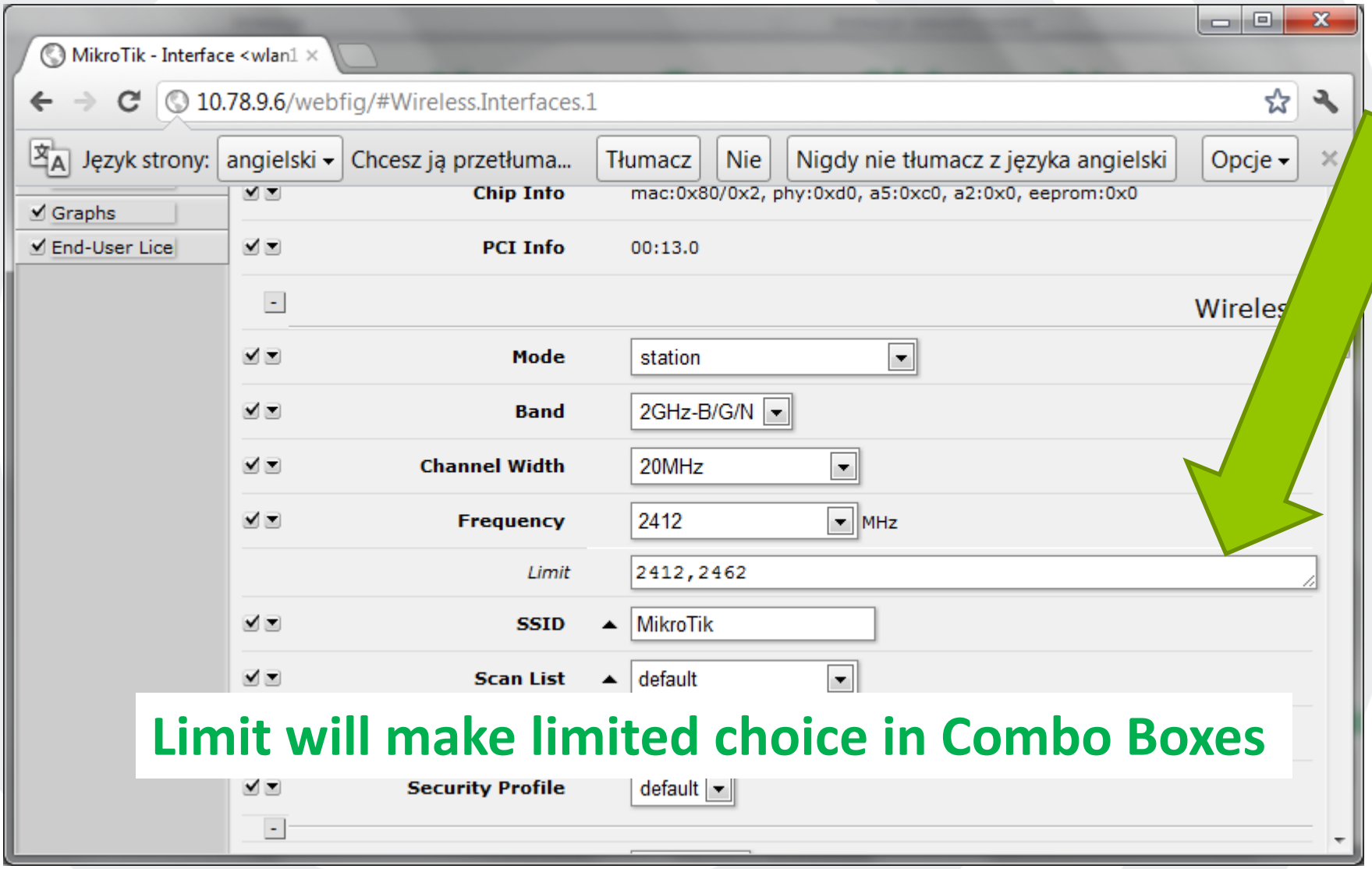
Tabs with no LABEL are called Separators

How to Create Skins - Notes



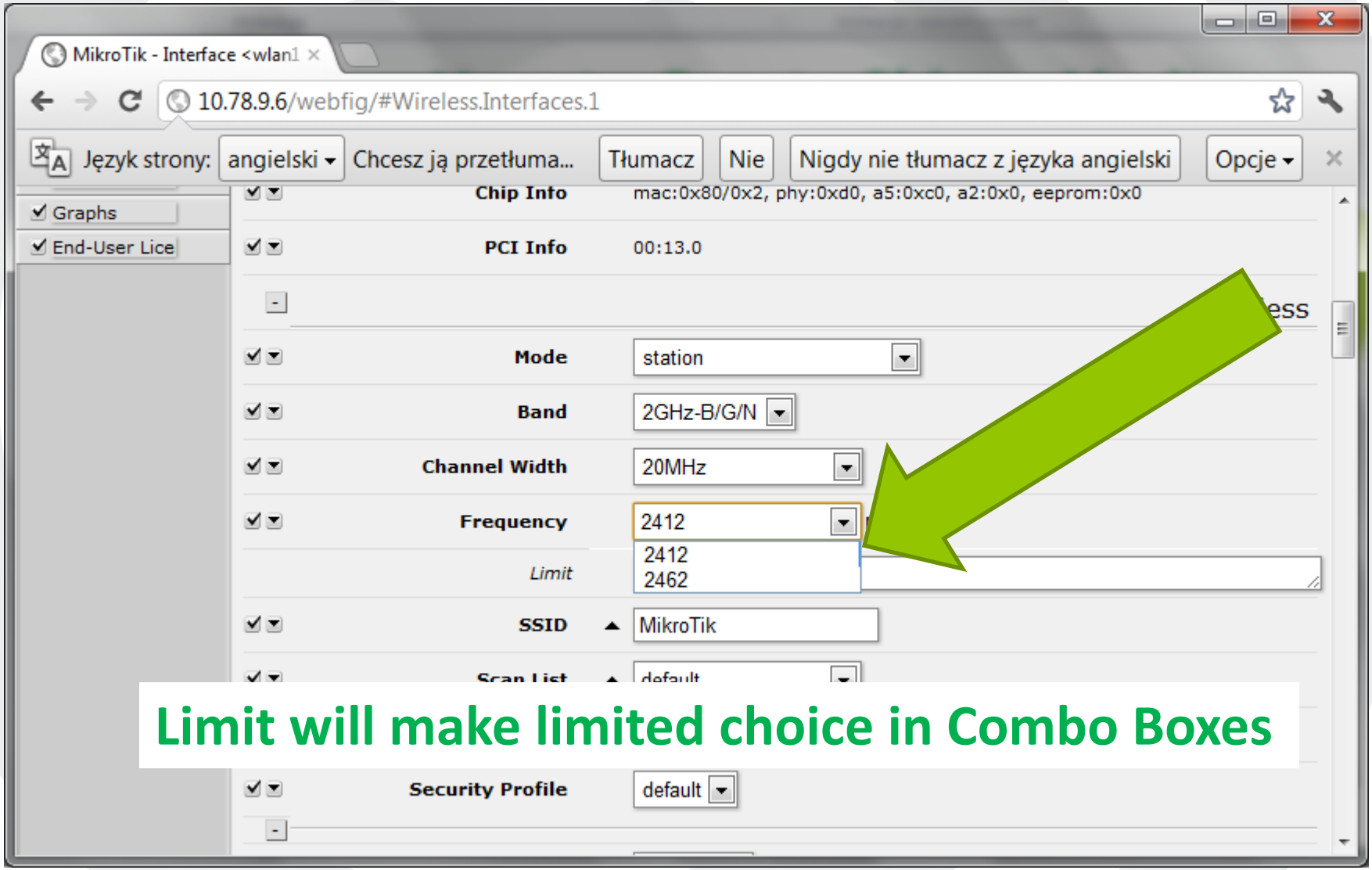
If Configration is too difficult make a notes for your employee

How to Create Skins - Limits



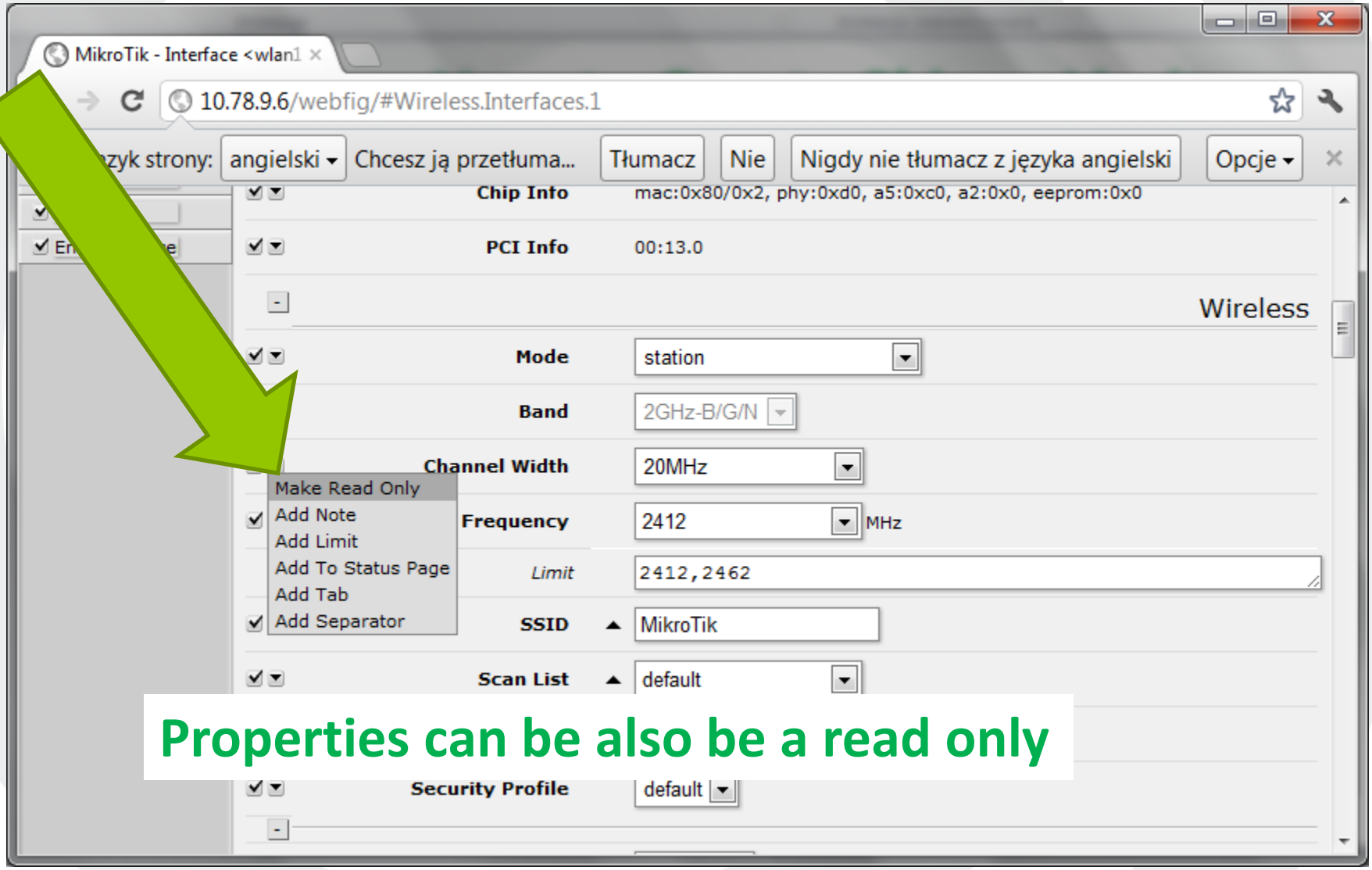
Limit will make limited choice in Combo Boxes

How to Create Skins - Limits



Limit will make limited choice in Combo Boxes

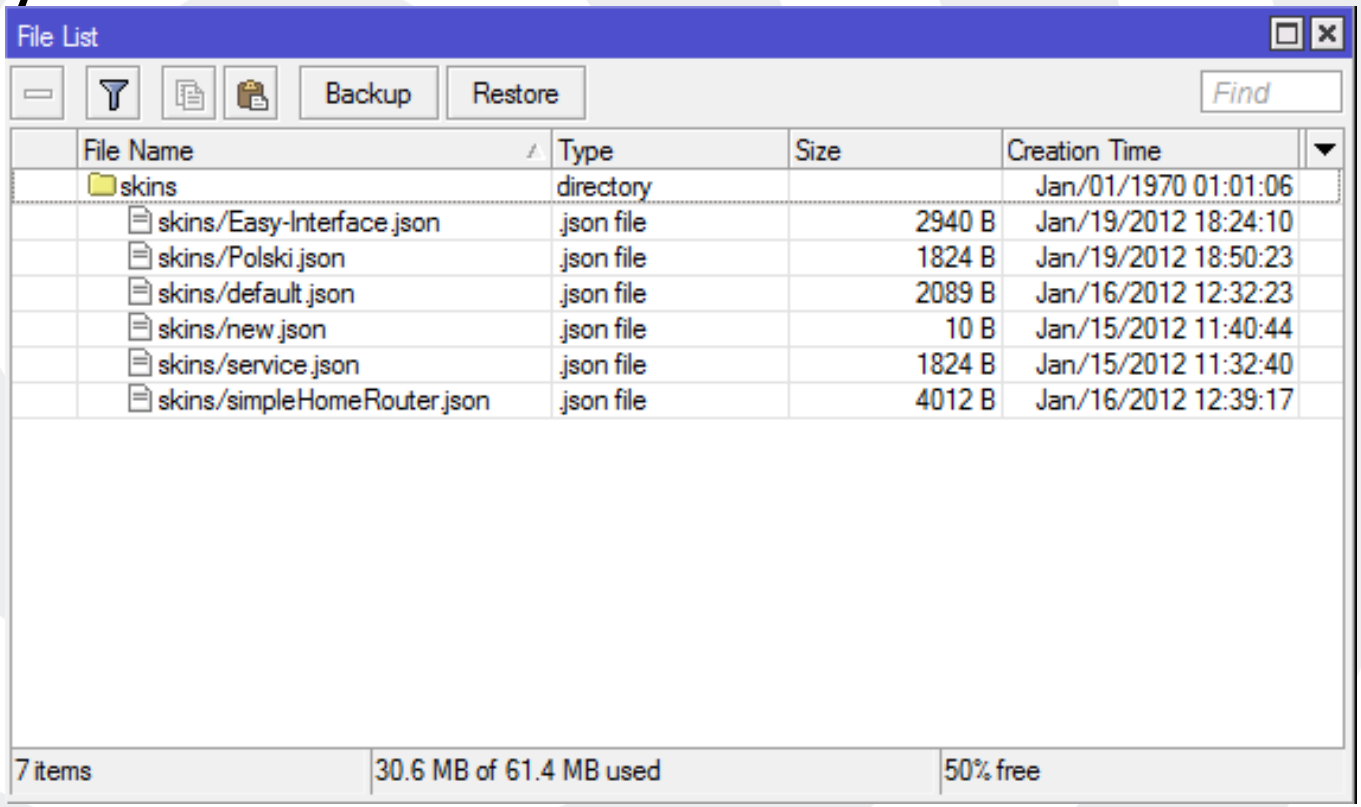
How to Create Skins - Limits



Properties can be also be a read only

How to USE Skins

- Skins are JSON files located in Files in skins directory



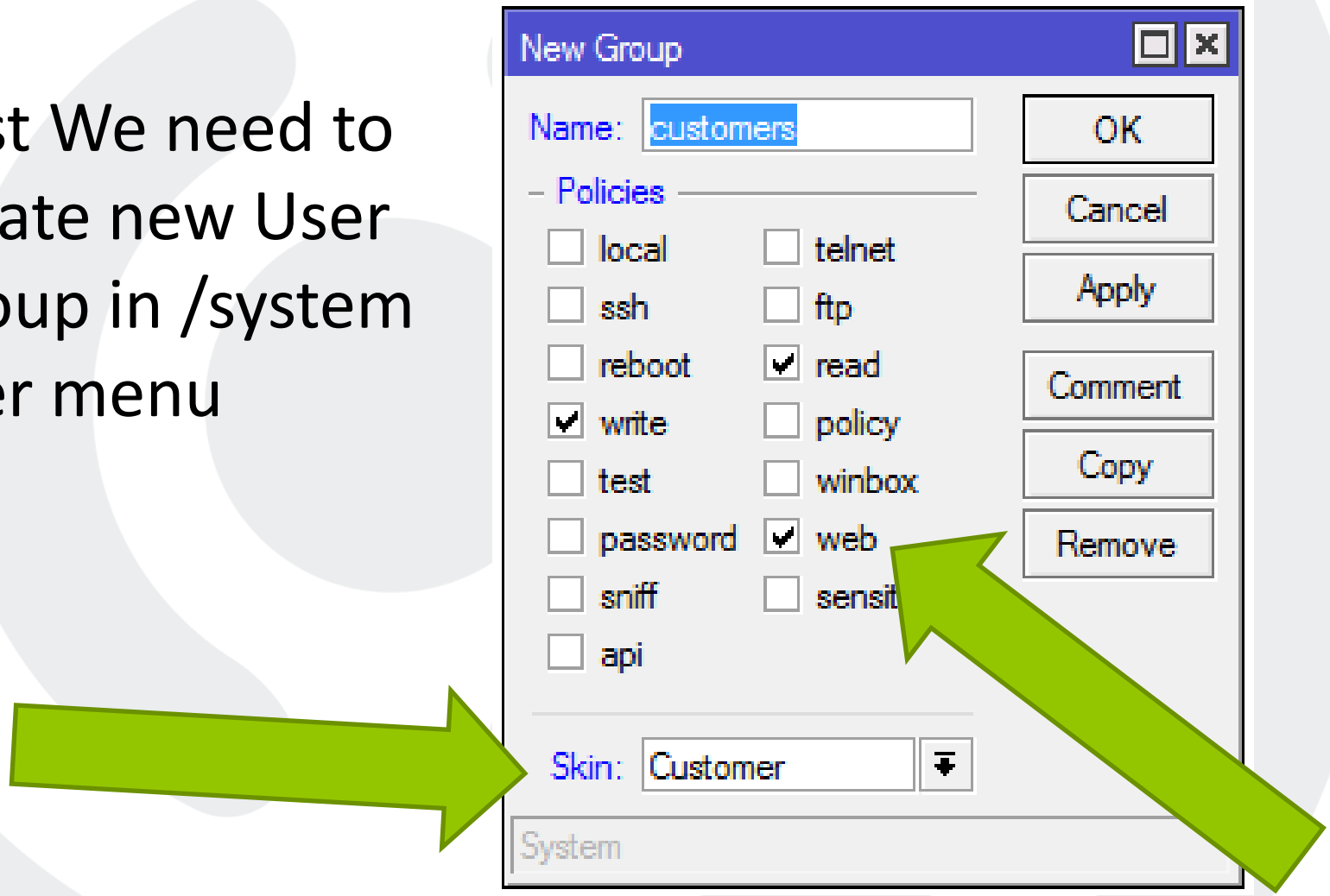
IP-PRO NETWORK CONSULTING

JSON Files

```
            Name: { note: 'Name for Security Profile' },
            Mode: { note: 'dynamic keys = WPA/WPA2; static keys = WEP' },
            'Authentication Types': { limit: 'WPA PSK, WPA2 PSK' },
            'WPA Pre-Shared Key': { note: 'PSK Key for WPA' },
            'WPA2 Pre-Shared Key': { note: 'PSK Key for WPA2' },
            'Supplicant Identity': 0,
            'Group Key Update': { ro: true },
            'Management Protection': 0,
            'Management Protection Key': 0
        },
        RADIUS: {
            'MAC Authentication': 0,
            'MAC Accounting': 0,
            'EAP Accounting': 0,
            'Interim Update': 0,
            'MAC Format': 0,
            'MAC Mode': 0,
            'MAC Caching Time': 0
        },
        EAP: { 'EAP Methods': 0, 'TLS Mode': 0, 'TLS Certificate': 0 },
        'Static Keys': {
            'Key 0': { tab: 'Static Keys; (For WEP)' }
        },
```

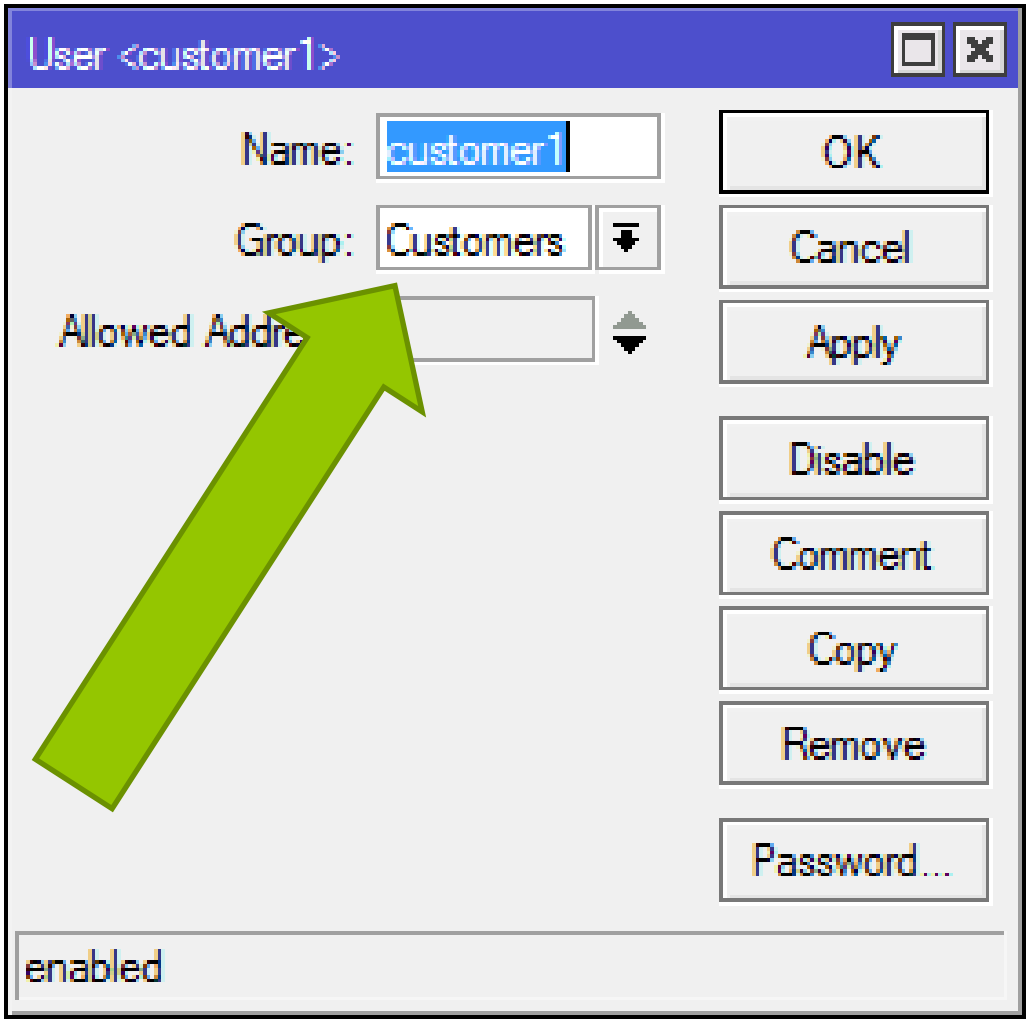
How to USE Skins

- First We need to create new User Group in /system user menu



How to USE Skins

- Second – Create user in that Group.



IP-PRO NETWORK CONSULTING

Mass Configuration

- Copy your JSON file to skin directory and place config of your users
- Use a new export compact to make job easier

Terminal

```
[admin@MikroTik] > /user
[admin@MikroTik] /user> export compact
# jan/02/1970 00:58:29 by RouterOS 5.14
# software id = KG33-5SGB
#
/user group
add name=Customers policy="read,write,web,!local,!telnet,!ssh,!ftp,!reboot,!po\
    licy,!test,!winbox,!password,!sniff,!sensitive,!api" skin=Customer
/user
add comment="system default user" group=full name=admin
add group=Customers name=customer1
[admin@MikroTik] /user>
```

THANK YOU

More Information at:

http://www.ip-pro.eu/articles/51-web-skins

IP-PRO

NETWORK CONSULTING