

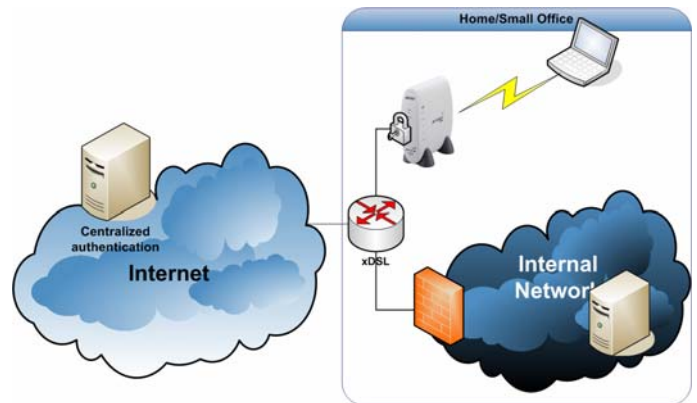
OpenSpark is a Wi-Fi user community developed and maintained by MP-MasterPlanet Ltd. You join OpenSpark community by letting other community members use your wireless access point. You get one OpenSpark user account when you join the community. OpenSpark user account can be used to access Internet through all OpenSpark access points

Also all SparkNet accounts are valid in OpenSpark community. By joining OpenSpark community you get a bonus discount on SparkNet accounts. Additional information can be found on:

<http://open.sparknet.fi>
<http://www.sparknet.fi>

Requirements

- To connect OpenSpark-access point to your Internet connection
- real IP-address (no NAT allowed)
 - unlimited IP traffic



Access point administration

Administration is done using web browser. Use following link to open the administration console:

<http://10.51.0.254:8080>

Connecting your access point

Plug in the access point to your ADSL connection:

- Buffalo WBR2 and WHR models have five ethernet-ports. Topmost four ports form internal network, and lowest port is so called **WAN-port** where you plug in your ADSL-connection

Remember to **change administration password** before proceeding. Not doing so causes serious security risk.

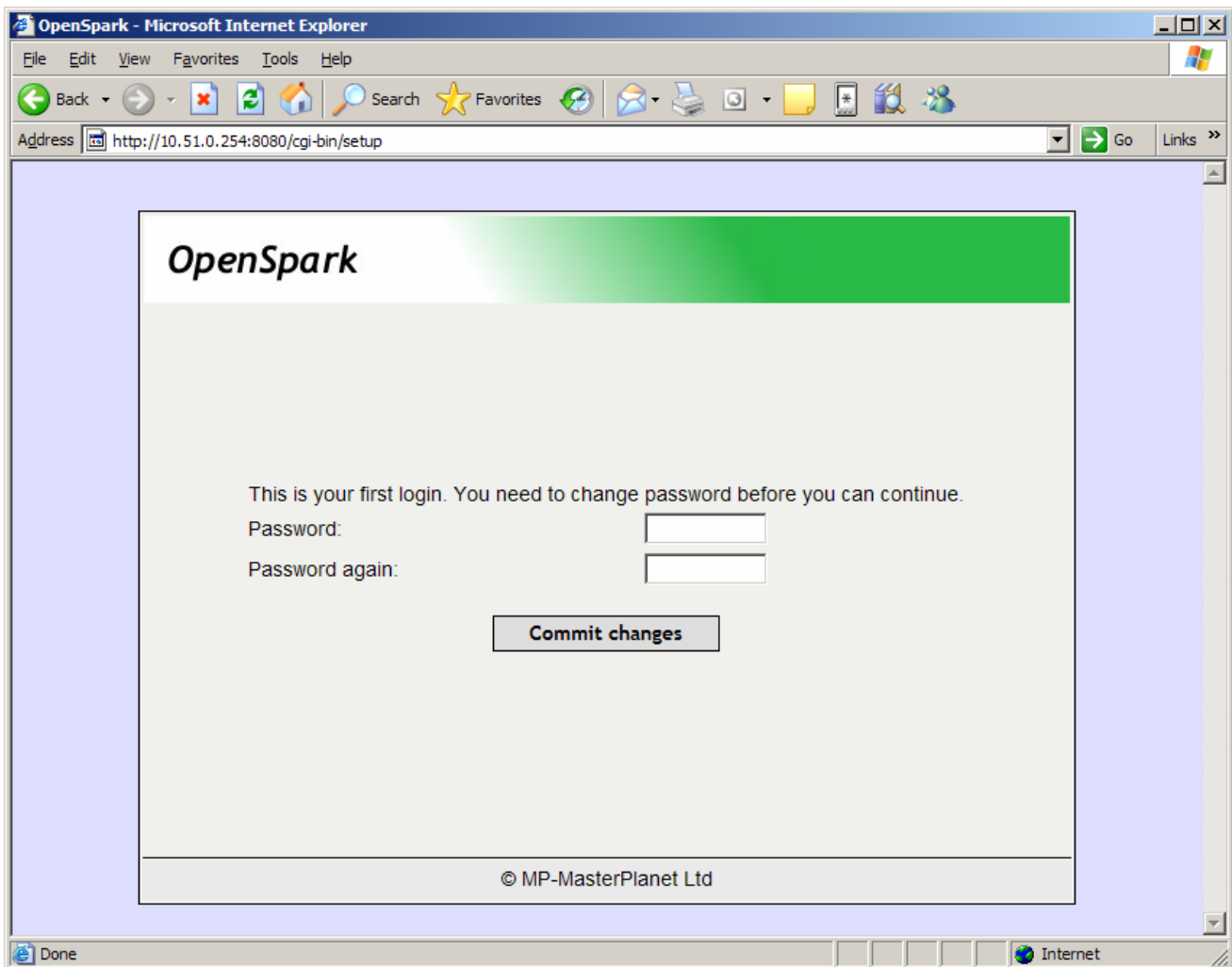
Using your access point wirelessly

Wireless network name (SSID) for the access point is OpenSpark. Just select OpenSpark – network using your wireless client and your client is automatically assigned IP address.

To open the internet connection you must first login with your user name and password. Login is done by opening any web page with your web browser. For example open <http://www.google.com> with your browser, and OpenSpark access point automatically forwards you to the login page

Administration

Connect to the access point either using wireless connection or connecting to the LAN port of the device. Open administration console on your web browser using address <http://10.51.0.254:8080>. The first time you open administration page you are forced to change your password:



Settings

You use this function to specify Internet connection settings for the access point. You may edit IP settings and also change channel assignment for the wireless connection.

Use "Disable dead link detection" checkbox to disable automatic dead link detection feature. More information about "dead link detection" feature can be found in the end of this

The screenshot shows the OpenSpark web interface. The browser window title is "OpenSpark - Microsoft Internet Explorer provided by MP-MasterPlanet Oy". The address bar contains "http://10.51.0.254:8080/cgi-bin/setup". The page has a green header with "OpenSpark" and a left sidebar with navigation buttons: "Settings", "Local Users", "MAC address", "Info", "Admin", and "Logout". The main content area is titled "TCP/IP settings" and includes the following options and fields:

- Obtain an IP-address automatically
- Use the following IP-address
- IP address: 0 . 0 . 0 . 0
- Subnet mask: 0 . 0 . 0 . 0
- Default gateway: 0 . 0 . 0 . 0
- Preferred DNS server: 0 . 0 . 0 . 0
- Alternate DNS server: 0 . 0 . 0 . 0
- Channel: 5
- Disable dead link detection:

A "Commit changes" button is located at the bottom of the settings area. The footer of the page reads "© MP-MasterPlanet Ltd".

document. Use "commit changes" button to save settings and reboot the access point.

Local Users

You may add, edit or delete local user accounts. These accounts can only be used logging in locally on this access point. To login with local accounts you have to add "@local" (without

quotes) prefix to the account name. Note that you don't use "@local" prefix when adding or editing accounts.

Note that you can not use even these local accounts to open Internet connection when access point does not have working Internet connection to the centralized management services of OpenSpark.

MAC address

You may want to allow for example your desktop computer connect to the Internet without authentication each time computer is started. This can be done by adding the MAC address of the network card of the desktop computer to the allowed MAC address list.

For security reasons only computers connected to LAN ports of the OpenSpark access point may be allowed to connect without authentication. Keep in mind that MAC address is easy to forge. Only use this functionality when you can physically control access to LAN ports of the access point. Don't use this function if you connect another access point (as a wireless bridge) to LAN port of the access point.

Info

Use this function to display IP address information for the WAN interface.

Admin

Use this function to change administration password for the access point.

Logout

Close administrative session.

Registration and OpenSpark accounts

Registration process joins your access point to the OpenSpark community. During registration process user creates OpenSpark user account for his/her own use. This account may be used to logon (open Internet connection) using any OpenSpark access point.

Registration

- Connect to the access point either using wireless connection or connecting to the LAN port of the device
- Open with browser:
<http://10.51.0.254/register.html>
- Fill in your user and access point information

- Last phase of the registration process is done using email verification. You get a email message containing a link to activate your OpenSpark user account. Remember that you need a working Internet connection to read your email. One possibility for connecting to the Internet is plugging your computer temporarily in place of the access point.
- Activated OpenSpark account may be used to logon (open Internet connection) using any OpenSpark access point
- When authenticating you use OpenSpark account by adding "@opensparknet" (without quotes) prefix to the account, for example "username@opensparknet"
- If OpenSpark access point is unplugged from the Internet connection or if the Internet connection breaks down for a longer period (some hours) user account associated to the access point will be deactivated.

Using OpenSpark

OpenSpark accounts can be used to logon (open Internet connection) using any access point registered to OpenSpark community.

To use Internet connection you must always login. Login process is activated by opening a web page in your browser. If user is not already authenticated, user is presented a login page in the web browser. User enters his/her username and password to authenticate. Remember to add "@openspark" prefix to your OpenSpark account.

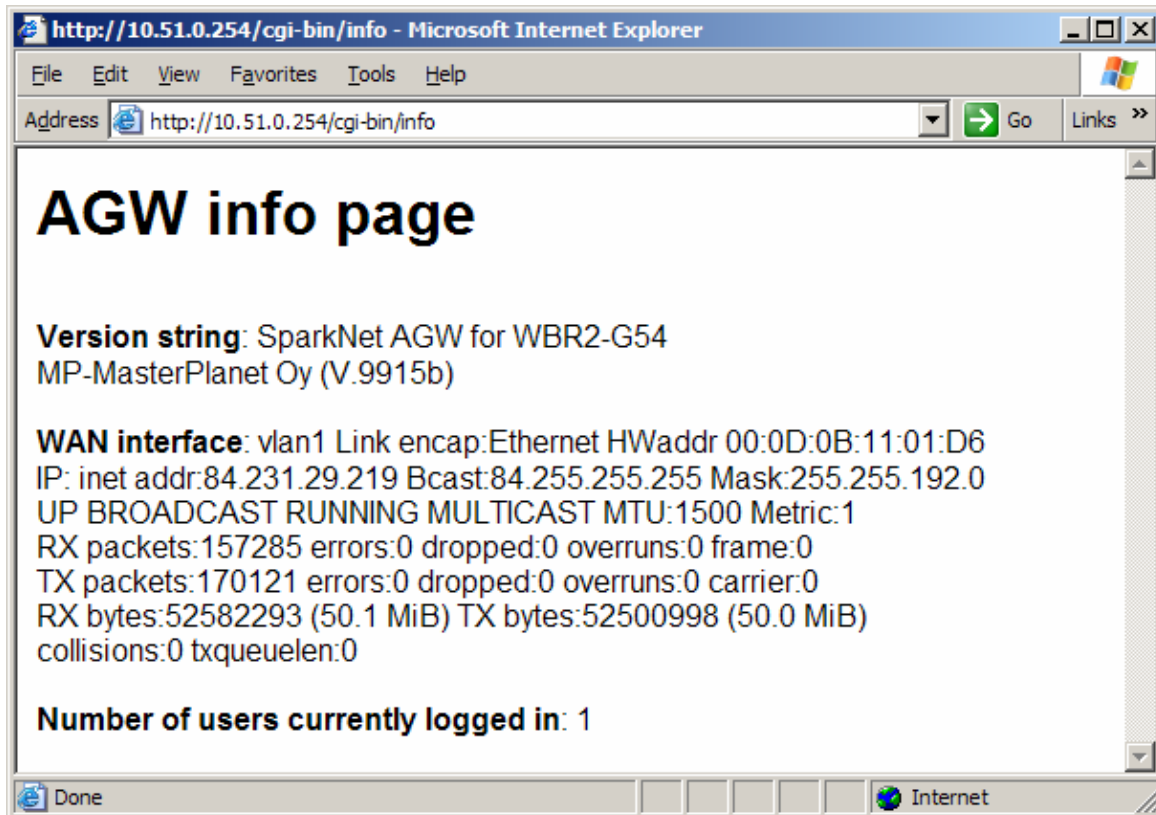
If problems occurs check first that proxy setting on the browser are disabled.

Changing your registration settings

You may use <https://open.sparknet.fi> web pages to update your registration information or to change password for your OpenSpark account.

OpenSpark access point information

Access point info page displays access point version information, number of currently logged in users and IP address information for the WAN interface. Info page is displayed opening web page <http://10.51.0.254/info.html>.

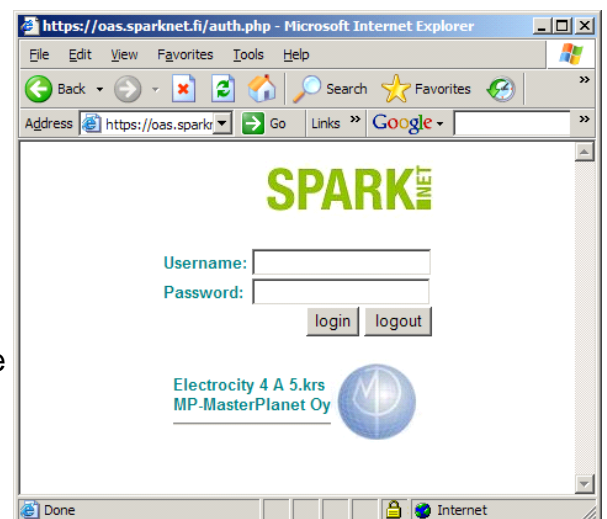


Opening connection

To use Internet connection you must always login. Login process is activated by opening a web page in your browser. If user is not already authenticated, user is presented a login page in the web browser where user enters his/her username and password to authenticate.

If problems occurs check first that proxy setting on the browser are disabled.

- Use global OpenSpark account in the form:
account@opensparknet
, or using local user account using form:
account@local



Problems opening the connection

There must be a non-NATted working Internet connection between OpenSpark access point and centralized management services for authentication to work. In the picture is shown an error message which is displayed when the connection between the access point and centralized management services is NATted.



In case of problems

Access point info page is useful when tracking connection problems (<http://10.51.0.254/info.html>). For example if your Internet connection uses dynamic IP addressing you may use info page to display IP address that has been assigned to the access point.

Disable proxy settings on your web browser when using OpenSpark.

Automatic connection status tracking

This function is available on OpenSpark firmware version V.9921b above.

When OpenSpark access point determines that Internet connection is down it redirects all web traffic to the page above. This is indication for user that access point is functioning normally, but there is some problem with the Internet connection.

Note: when you think that Internet connection is restored, close down web browser and run it again to reopen some webpage. For example reloading web page when using Internet Explorer is for no use because Internet explorer uses it's internal DNS cache to resolve page names..

