



<b>NAME</b>	OPENDNS HOME - WII
<b>Company</b>	OpenDNS
<b>Version</b>	OPENDNS HOME
<b>Devices supported</b>	Game Console: Nintendo Wii and DS. Tested on Wii v4.3E*
<b>Price**</b>	Free
<b>Language of interface</b>	English

The console has the following functionalities:

- ⇒ OFFLINE functionalities:
  - Playing game
  - Watching Video and photo
- ⇒ ONLINE functionalities (bound to pay for subscription):
  - Browse the internet through the Opera browser based Internet Channel
  - Play online games
  - Purchase contents related to games and other
  - Download other WII channels

The Internet access is free.

\* A tool for Wii exists [Astaro] but the filtering functionality is not effective. A generic tool which can be used for any device connected to Internet has been tested on Wii.

\*\*Prices might change according to the latest company offers





## FUNCTIONALITY

Once the OPENDNS DNS have been set in the Wii device, The configuration is made on the OPENDNS website. The Parent can indicate specific URLs to be blocked (creation of a black list) or allowed (creation of a white list) by the filter despite the selected categories to be blocked/allowed. It is not possible to block directly the Streaming, Skype, MSN, but it is possible to block the access to specific websites or categories (e.g. video, time waster, chat). Nonetheless, in this case the system failed when blocking skype.com. As far as P2P is concerned: it blocks a range of websites where a user can download torrent files, blocks also the client that uses a torrent file and prevents it to download from many sources.

**FUNCTIONALITY SCORE** (assessment referred to the external tool only): **1,7 OUT OF POINTS**

## EFFECTIVENESS

The tool has a fair effectiveness on adult content but very weak on other harmful content. There is no major difference in effectiveness between teenagers and children. There is no major difference in effectiveness between web and web 2.0. There is no major difference in effectiveness among the different languages.

Effectiveness score with adult content filtering for .12 years old user: 2,0  
Effectiveness score with other harmful content filtering for .12 years old user: 0,0  
Effectiveness score with adult content filtering for . 13 years old user: 2,0  
Effectiveness score with other harmful content filtering for . 13 years old user: 0,0

**OVERALL SCORE FOR EFFECTIVENESS FOR ≤12 YEARS OLD USER:** **1,0 OUT OF 4 POINTS**

**OVERALL SCORE FOR EFFECTIVENESS FOR ≥ 13 YEARS OLD USER:** **1,0 OUT OF 4 POINTS**  
(assessment referred to the external tool only)





## USABILITY

Installation of the tool: There is no installation in a real sense. The usability test of the installation refers to the settings that have to be done in preparation. The filter can be set up via router or directly on the Wii. Although some rather complicated settings with the DNS address are necessary, everything is well explained and supported. Only the consequences of changing the DNS could be explained better in general. The steps are generally rather unfamiliar and unexpected.

Configuration of the tool: The configuration process is sometimes difficult to understand; especially the idea of filtering with open DNS could be explained better to the user. The steps are consistent, but do not always meet users' expectations. The process can be influenced a little with regard to the amount of information at the screen. The design could be optimised a little.

Usage of the tool: The tool supports a dialogue between children and parents, when a website has been blocked. Users can customise the alert message a little, but the default message is not worded with respect to children's capability of understanding. The reporting is partly not comprehensible.

Usability of the installation process: 2,85

Usability of the configuration process: 2,98

Usability of the usage of the product: 2,02

**OVERALL SCORE FOR USABILITY: 2,66 OUT OF 4 POINTS**

## SECURITY

The tool resisted to the main hacking attacks to by-pass the filter.

**SECURITY SCORE: 0 OUT OF POINTS** (assessment referred to the external tool only)





## DETAILED FUNCTIONALITY FINDINGS

External Tool – OPENDNS HOME			
Area of need	Functionality	Specific Issue	Assessment
Mgmt	Web content filtering	Filter web pages according to content	YES
Filtering customisation	Management of users profile	Filter web pages according to content	NO
	Content Filtering	Customisation filtering topics	YES
	White lists	Restrict browsing to a white list	NO
		Default white list	NO
		Modification OR Creation	<u>Modification</u> – NO <u>Creation</u> – NO
Black lists	Creation of user's own black list	YES	
Keywords	Keywords	Default black list	NO
		Default white list	NO
		Creation of a user's black list	NO
		Creation of a user's white list	NO
Time	Time limit settings	Set a specific timeframe or web access duration	NO
Usage restriction	Web	<u>Block</u> access	YES
		<u>Monitor</u> * usage	NO





## Embedded parental control tool

Feature	Description	Assessment
<b>Blocking access to Internet</b>	Restrict the child/teen access to the Internet channel	YES
<b>Chat blocking</b>	Prevent child/teen from chatting with other player	YES
<b>Chat Filtering</b>	Set with whom the child/teen can chat	NO
<b>Content purchase blocking</b>	Prevent the child/teen from purchasing (pay-for content)	YES
<b>Online game-play blocking</b>	Prevent the child/teen from playing online (allow only off-line game play)	YES
<b>Online game-play filtering</b>	Filtering game basing on the content topics	NO
<b>Web content filtering</b>	Filtering the content that the chid/teen can access to the web basing on the topics	NO





## DETAILED SECURITY FINDINGS:

The Tool prevents the user from by-passing the filter by	YES - NO - N/A*
Using the IP address instead of the URL	YES
Disabling or uninstalling the software without a password**	YES
Using a proxy instead of a direct connection to the internet.	NO
Accessing the web-pages through the Google cache	YES
Reaching a website through translation sites (ex. Google translate)	YES
Changing time and date settings (to overcome time limits usage)	N/A

*\*It was not possible to carry on the test since the device does not allow the functionality or does not allow the access to the specific test bed.*

*\*\*As managed directly by the tool*

## DETAILED USABILITY FINDINGS:

	YES/NO
I: installation in 3 steps or less	YES
I: choice of installation for beginners or advanced users	YES
C: different degrees of strength for the filtering	YES
C: different content criteria for the filtering	YES
C: option to transfer filter configurations between target users	no user profiles
C: option to transfer filter configurations between devices	YES
C: altogether comprehensible configuration	YES
C: altogether in conformity with user expectations	NO
C: altogether easy to learn	NO
U: alert message in a child friendly language	NO
U: option to customize the reaction in case of blocking	YES
U: altogether easily operable and comprehensible reporting	NO

