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|------------------------------|---|
| NAME | ASTARO - WII |
| Company | Astaro GmbH & Co. KG |
| Version | Parental control for Wii |
| Devices supported | Game Console: Nintendo Wii and DS. Tested on Wii v4.3 |
| Price * | 2 months, 1 license: 10,00 € |
| Language of interface | 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.

*Prices might change according to the latest company offers





FUNCTIONALITY

Parental control functionalities provided by the external tool Astaro:

Web filtering:

Nintendo has included a bookmark in the Wii Browser which links to the Astaro Wii Content Filtering Portal which allows web filtering features.

Astaro Wii Content Filtering make use of a proxy which filters web sites requested to the Internet channel.

Parental control functionalities embedded with the device

The console is provided with a family security functionality which allows the parent to determine the settings both for the OFFLINE and the ONLINE features. Here are presented only the online features managed by the embedded tool.

The parent can restrict the CHILD/TEENAGER uses of the console via the settings of a four-digit PIN.

Internet access:

It is possible to block the access to the Internet Channel if desired.

Online communication:

Online Communication and User Created Content: The parent can control messages communication of the Wii console in online games where open communication is available, as well as controls the exchange of user created content in compatible games and channels (Wii Message Board, Check Mii Out Channel, etc.).

Content download or purchase

Purchase and download activity: The parent can control the use of Wii Points, which are used to acquire downloads from the Wii Shop Channel. If this setting is on, users will be required to enter the 4-digit PIN in order to use Wii Points to download items from the Wii Shop Channel.

Other

News Channel: The ADMIN can control access to the News Channel. If this setting is on, users will be required to enter the 4-digit PIN in order to enter the News Channel.

FUNCTIONALITY SCORE (assessment referred to the external tool only): **0,6 OUT OF 4 POINTS**

EFFECTIVENESS

The filtering functionality was not effective numerical results are provided.





USABILITY

Installation of the tool: URL filtering for the console's internet access is possible with help of an external application. Installation of the application works nearly automatically; therefore the installation hasn't been tested with regard to usability.

Configuration of the tool: Astaro for Wii provides barely any options for configuration; therefore the configuration of the settings for youth protection on the consoles themselves was included in the test. Especially using Wii together with Astaro is partly incomprehensible. Context sensitive explanations are missing at some points. Handling of the Wii is generally easy and encouraging to learn, but finding the Astaro service and learning how to use it, is very difficult. The configuration with regard to URL filtering is very poor and provides barely any options. However configuration of Astaro as well as the configuration of the Wii youth protection tool is consistent, but contains some breaches of user's expectations.

Usage of the tool: There is barely any usage concerning Wii's youth protection tool. The alert message cannot be customised and is not worded with respect to children's capability of understanding.* The product provides no options to react when a web site has been blocked. There is no reporting of URL filtering.

Usability of the installation process: /
Usability of the configuration process: 1,88
Usability of the usage of the product: 1,72

OVERALL SCORE FOR USABILITY: 1,82 OUT OF 4 POINTS

* During the 3rd test cycle it was not possible to connect with to the Astaro server. As a result, hence the filtering functions were not operating and alert messages did occur. Therefore, the assessment of the alert message refers is related to the last two testing cycles.

SECURITY

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

SECURITY SCORE: 4 OUT OF 4 POINTS (assessment referred to the external tool only)





DETAILED FUNCTIONALITY FINDINGS

| External Tool – ASTARO | | | |
|-------------------------|-----------------------------|---|------------------------------------|
| 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 | NO |
| | White lists | Restrict browsing to a white list | NO |
| | | Default white list | NO |
| | | Modification OR Creation | Modification – NO Creation – NO |
| | Black lists | Creation of user's own black list | NO |
| 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 | NO |
| | | <u>Monitor*</u> usage | NO |





Embedded parental control tool

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

**the filtering is possible using Astaro (see the table for the external tool above)*





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. | N/A |
| Accessing the web-pages through the Google cache | N/A |
| Reaching a website through translation sites (ex. Google translate) | N/A |
| 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 | / |
| I: choice of installation for beginners or advanced users | / |
| | |
| C: different degrees of strength for the filtering | NO |
| C: different content criteria for the filtering | NO |
| C: option to transfer filter configurations between target users | No user profiles |
| C: option to transfer filter configurations between devices | NO |
| C: altogether comprehensible configuration | NO |
| C: altogether in conformity with user expectations | YES |
| 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 | NO |
| U: altogether easily operable and comprehensible reporting | No reporting |

