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#### What can be regulated on the Internet by control/filtering software

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# What can be regulated on the Internet by control/filtering software?

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### 0. Introduction

On no account is this paper moralistic or prescriptive. It is only an analytic description of off-the-shelf control/filtering¹ software and a synthesis of

The following explanations are needed to understand this complex domain.

PICS (Platform for Internet Content Selection) is a set of technical standards which have been developed since summer 1995 by the MIT's (Massachusetts Institute of technology) World Wide Web Consortium. Currently, PICS becomes more and more important and control software like, for example, Cyber Patrol<sup>2</sup> does not hesitate to become PICS compliant.

« The first and most important distinction that PICS introduced is a separation between labelling and filtering<sup>3</sup>. A label<sup>4</sup> describes the content of something. A filter makes the content inaccessible to some audience» In other words, thanks to PICS « Consumers choose their selection software and their label sources (called rating service) independently.  $^{6}$ Moreover, PICS standards facilitate « self rating (enable content providers to voluntarily label the content they create and distribute) and third party

rating (enable multiple, independent labelling services to associate additional labels with content created and distributed by others. Services may devise their own labelling systems, and the same content may receive different labels from different services. »7

« More generally, there are six roles that could be filled by different entities » (see table 0).

<sup>&#</sup>x27;Control' and 'filtering' are considered here as synonymous.

According several comparative reviews (see Munro C. 1997, Internet Filtering Utilities, PC Magazine, April 8 1997, pp. 235-240.; Parental Control Software at a Glance, October 97 issue of FamilyPC http://www.zdnet.com/familypc/9709/noway/table.html; Meeks Ch., 8 programs to porn-proof the Net, 4/3/96; updated 5/28/97 http//www.cnet.com./Contenu/Reviews/Compare/Safesurf), Cyber Patrol is the best among the tested packages. « PICSRules is a language for expressing filtering rules (profiles) that allow or block access to URLs based on PICS labels that describe those URLs » PICS FAQ p. 10

<sup>«</sup> PICS labels can be attached or detached » (and stored on a separate server called a 'label bureau'). (Resnick 1997)

Resnick and Miller 1996 p. 88

<sup>(</sup>see http://www.w3.org/PICS/principles.html).

# Table 0: The 6 roles implied by filtering software (according to Resnick 1998)<sup>8</sup>

	1 (1-4 1-1, 11)		
	I Set tabelling vocabiil	ary and criteria for assigning lab	
	2. Doctadoring vocabui	ai y and chichia for assigning ian	eic
•			-10

2. Assign labels3. Distribute labels

4. Write filtering software

5. Set filtering criteria [for example by parents]
6. Install/run filtering software.

see http://www.w3.org/PICS/PICS-FAQ-980126.html

### 1. General framework

## 1.1. Kinds of control/filtering

Table 1.1.6 different kinds of control/filtering defined by Cranor & Resnick (12 March 1998)9

1. SUGGEST	Recommend appropriate content for children [ex CyberYes list (of CyberPatrol)]
2. DEARCH	Select a content that is appropriate for children and match a query
5. INFORM	Provide information about the content (ex. Evaluable which displayed because of the content (ex. Evalu
	Record for later inspection a list of the content accessed or attempted to be accessed by a user; this may be a complete list or provide information of the web pages.
J. WARI	Provide information about content and recommend against accessing that content before it disclaims.
	Prevent children from accessing content [ex. Microsoft Internet Explorer (which filters on the basis of any PICS labels), Cyber patrol, Net Nanny,]

# 1.2. Possible locations of control/filtering

Table 1.2. 6 different locations of control/filtering (adapted from Cranor & Resnick, 12 March 1998)

1. Personal computer	
2. Telsonal computer	ex. Cyber Patrol, SurfWatch, Net Shepherd, MS Internet Explorer
2. LAN or local proxy server	ex. Cyber Patrol, SurfWatch, SafeSurf Internet Filtering Solution
3. Internet Service Provider	N.B. « harder for individual to tamper with »
4. Remote proxy server	ex. SurfWatch, SafeSurf Internet Filtering Solution <sup>10</sup>
5 Coords on a	ex. Bess
5. Search engine	ex. AltaVista engine at Net Shepherd
6. Web site	ex. EvaluWEB providing both PICS labels and banner graphics

See http://www.safesurf.com/ssfaq.htm#basic

Adapted from http://www.research.att.com/~lorrie/pubs/tech4kids/t4k.html

#### 1.3. Control scopes and corresponding possible technical solutions

Control scopes and corresponding possible technical solutions **Table 1.3.** 

Control general scopes	Control specific scopes	Possible current technical solutions
1.Control at the level of the entry point to an address or a file	<ul> <li>FTP (File transfer Protocol)</li> <li>GOPHER (for information research)</li> <li>Usenet News groups and individual messages (NNTP Protocol)</li> <li>TELNET (for terminal access)</li> <li>[IRC Internet Relay Chat] (in the near future) (N.B. e-mail messages do not have an URL))</li> </ul>	FICS labelling and filtering  filtering on the basis of lists of  URL or  names of newsgroups, chat etc.
2. Control at the level of the content itself	1.2. local or on-line applications ex. games, personal financial managers, etc.)  2.1. Incoming information N.B. for example for e-mail (including their attachments)  2.2. Outgoing information (for ex. personal information via IRC, website questionnaire, e-mail, or offensive words in search of sexually explicit sites or conversations)	New word/string filter (or word-matching)     Intelligence artificial based software
3. Time control	3.1. Hours/day 3.2. Days/week 3.3. Total by week	

# 2. Examples of current filtering software packages and corresponding control scopes

A control software package can include several scopes and several technical solutions.

Table 2. Control scopes and 2 examples of current control software packages

Adapted from Resnick, latest updated 98/01/03 Platform for Internet Content Selection (p. 10).

Cyber Patrol 4.0 <sup>12</sup>	Net Nanny <sup>13</sup> 3.0
Yes (site level and page level)	• Yes
• Yes	• Yes
• Yes	• ?
• Yes	• Yes
• Yes	• 7
• Yes	• Yes
• Yes	• Yes (non Internet BBS etc.)
• NO (?)	Yes (e-mail, chat rooms etc.)
questionnaire or words in search of	Yes (e-mail, chat rooms etc.)
	• NO
	NO     NO
_	<ul> <li>Yes (site level and page level)</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>NO (?)</li> <li>Yes (via IRC or website questionnaire or words in search of sexually explicit sites or conv.)</li> <li>Yes</li> </ul>

See The CyberPatrol Fact sheet at html://www.cyberpatrol.com/cyber/fact.html and Cyber Patrol Online Demonstration tour html://www.cyberpatrol.com/cp\_demo/default.html

See F.A.Q. at html://www.netnanny.com/NNFAQ/nnfaq\_bottom.html
Adapted from Resnick, latest updated 98/01/03 Platform for Internet Content Selection (p. 10).

#### 3. PICS Rating Services

The rating services included in tables of § 3 are listed (with their hyperlinks) at http://www.3org/PICS/raters.html<sup>15</sup>. According to our vocabulary, 'levels' inside a labelling category can be used for setting filtering criteria. But 'sub-categories' or 'examples' allow to explain the whole meaning of a category but cannot be used for setting filtering criteria.

#### 3.1. PICS Third-Party Rating Services

Table 3.1.1. PICS Third-Party Rating Services: Who has set labelling vocabulary and criteria for assigning labels?

CyberNOTlist	evaluWEB	Net Shepherd's Rating (of	SurfWatch to Dating
Cyberrollist	evalu vi Eb	websites, FTP, NNTP and IRC protocols)	(for kids)
linked to Cyber Patrol <sup>16</sup> , a Microsystems software	filtering software	Shepherd' of NetShepherd Inc.	Linked to 'SurfWatch', the Spyglass' filtering software
Microsystems' CyberNOT Oversight Committee, « a diverse group of advisors from a wide range of civic organizations representing all parts of the social and political spectrum »	free (and experimental) system online developed by Sserv (?) <sup>18</sup> « presenting itself as 'the web's leading daily starting point for news, web search and what's happens on line »	Net Shepherd, « a Calgary based Internet company » « employing virtual Internet communities for relevant information retrieval, increased subscriber loyalty & enhanced e-commerce performance » <sup>19</sup>	« Developed and regularly reviewed by SurfWatch's community-based Advisory Committee » <sup>20</sup> which « is a group of community members ranging in age from their 20s to their 50s. The group includes teachers, parents, publishing professionals, members of the clergy, corporate human resource managers, drug and alcohol prevention counsellors and child abuse prevention agents. They represent diverse ethnic and religious backgrounds, and have in common an interest and passion for the issues that surround filtering content on the Internet. » <sup>21</sup>

Table 3.1.2. PICS Third-Party Rating Services: Who is in charge of assigning labels?

Except for ORC (Objective Ratings Criteria) mentioned in the list of the webpage but not found on the Web.

<sup>16</sup> It must be noticed that Cyber Patrol has its own criteria of ratings but also supports the RSACi's rating standard.

<sup>&</sup>lt;sup>17</sup> See http://www.zdnet.com/familypc/9709/noway/table.html

This information has to be confirmed.

See http://www.netshepherd.com/Corporate/Presreport.html (dated June 15 1998).

See http://www.surfwatch.com/filteringcriteria/ (visited on 11 July 1998).

See http://www1.surfwatch.com/submit/faq\_index.html

Cyber Patrol (4.0) (CyberNOTlist)  « Cyber Patrol's proprietary CyberNOT list is selected and continuously reviewed by a skilled research team that works full-time to identify sites inappropriate for kids. Researchers use specialised sorting software to remove previously viewed sites and scan the remaining sites, displaying 24-character phrases that include suspect words as 'sex' or 'satanic'. This helps eliminate thousands of innocuous sites. The identified sites are reviewed by the research staff	Rating  Itelligence Itelligenc	be reviewed by an Advisory Committee of parents, teachers and community members. This 'eyes on page' content evaluation is supplemented by our pattern blocking technology which detects words in URLs, chat, or newsgroup names that indicate inappropriate content » <sup>22</sup> « The SurfWatch Surfer team contains individuals ranging in age from their 20s to their 40s. The surfers live all over the United States, including California, Indiana, Michigan, Illinois, Texas, Utah, Pennsylvania and Washington, and abroad in Japan. They work at all hours of the lives.
and sorted into 12 categories» (see next table)	Internet's general	night to catch sites that may only operate during certain times of the day. They are independent contractors whose primary occupations include airline pilot, mystery novelist, teacher, homemaker and accountant. »

See http://www.surfwatch.com/filteringcriteria/index.html (visited on 30 January 1998).

Table 3.1.3. PICS Third-Party Rating Services: breaking down of the labelling categories

Cybon Botyol (4.0) (CybonNOTE-4)	rarty Rating Services: breaking		
Cyber Patrol (4.0) (CyberNOTlist) 11/5/97	evaluweb	Net Shepherd's	SurfWatch (for kids)
	manus :	Rating	= core
Violence/Profanity (Graphics or Text)			Violence (6 sub-cat.)
Partial Nudity			
Full Nudity			
Sexual Acts (G/T)			Sexually Explicit (7 s-c.)
Sex Education (G/T)			The second secon
Gross Depictions (G/T)			
Intolerance (G/T)			Hate Speech (4 sub-cat.)
Satanic/Cult (G/T)		4	
Drugs/Drug Culture (G/T)			see below
Militant/Extremist (G/T)			
Questionable/Illegal & Gambling (G/T)			Gambling (5 sub-cat.)
Alcohol & Tobacco (G/T)			Drugs/Alcohol (7 sub-c.)
[+ Sports & Entertainment (cf. soft. for firms)]			
	Age based: 3 levels:	Age based: 6 levels:	
	• GV = general viewing (suitable for all	<ul> <li>General</li> </ul>	
	ages)	• Child	
	• PA13 = Parental Advisory (unsuitable for	• Pre-teen	
	young children) • XC = explicit content (intended only for	• Teen	
	legal adult)		
	ingm auur)	<ul> <li>Objectionable</li> </ul>	
		Quality: 5 levels:	
		• poor	
		<ul><li>fair</li><li>good</li></ul>	
		• very good	
		· -	
		• excellent	
			ChatBlock (all)

### Table 3.1.3.bis PICS Third-Party Rating Services: breaking down of the labelling categories

SurfWatch' profession edition <sup>23</sup> or Productive category criteria <sup>24</sup>	rits
category criteria <sup>24</sup>	
astrology/mysticism (4 sub-categories)	
entertainment (4 sub-categories)	
games (4 sub-categories)	
general news (4 sub-categories)	
glamour or intimate apparel (4 sub-categories)	
hobbies (4 sub-categories)	
investments (4 sub-categories)	
job search (3 sub-categories)	
travel (3 sub-categories)	
motor vehicles (4 sub-categories)	
personals or dating (4 sub-categories)	-
real estate (3 sub-categories)	
shopping (4 sub-categories)	
sports (4 sub-categories)	
Usenet News (all)	
ChatBlock (all)	

See http://www.news.com/News/Item/0%2C4%2C21751C00.html?sas.mail http://www1.surfwatch.com/filteringcriteria/productivity

#### 3.2. PICS Self-Rating Services

Table 3.2.1. Current PICS Self Rating Services: Who has set labelling vocabulary and criteria for assigning labels?

assigning labels:					
om <sup>25</sup> prima Rating (provides a Agency (to be installed in Microsoft's Internet Explorer)	Internet) (integrated in Microsoft's Internet Explorer 3.0 - as the option by default - and in CyberPatrol) (N.B. Nominated for the Carl Bertelsmann Prize 1998)	·	Standard	Vancouver Webpages Rating Service	
software software	software	no link with any filtering software	initially linked to SafeSurf Internet Filtering Solution (no longer available)		
m (entertainmen with t web sites provider (discussion	Recreational Software Advisory Council (RSAC), « an independent, non-profit organisation based in Washington DC » (which	physicist (weburbia.com) without commercial goal but « to provide a simpler system of rating pages which did not require me or others to answer complicated ill posed questions	voluntary system - « developed with input of thousands parents & netcitizens world-wide » by SafeSurf, « a no-fee parents' organization » « dedicated to making the Internet safe for your children without censorship <sup>29</sup> » (and founded by 2 men out « of concern for children accessing adult material »)	service developed by Vancouver- Webpages.com (a part-time small business) The categories were created by	

Table 3.2.2.	PICS Sel	f Rating Services:	breaking down	of the lab	elling cat	egories	
Adequate.com <sup>31</sup>	IT-RA	RSACi	Safe For Kids		Internet		Rating
i		1				Service	Ĭ.

<sup>25</sup> http://www.adequate.com

<sup>26</sup> http://www.weburbia.com/safe/

http://www.safesurf.com/press (June 17 1998).

<sup>&</sup>lt;sup>28</sup> Cf. e-mail dated 13 July 1998 from Phil Gibbs.

<sup>«</sup> Proof that the Internet community will implement solutions on its own can convice them [legislators] of alternative solutions to censorship. »

<sup>&</sup>lt;sup>6</sup> Cf. e-mail dated 17 July 1998 from Andrew Daviel.

<sup>31</sup> http://www.adequate.com

see age	Violenza (5 levels)	Violence (5 levels)		SS~=005 Violence (9	Violence (6 levels)
				levels)	
				SS~~001 Profanity (9 levels)	Profanity (5 levels)
		Nudity (5 levels)		SS~~004 Nudity (9	
				levels)	
Sec age	Sesso (5 levels)	Sex (5 levels)		SS~~006 Sex, Violence	-Sex (8 levels)
	e a de Parmera da Paland			& Profanity (9 levels)	A Secretary Company of Earth Street,
		Programmer Control		SS~~002 heterosexual Themes (9 levels)	
				SS=<003 Homosexual	
				Themes (9 levels)	
	Razzismo (5 levels)			SS~~007 Intolerance (9	Tolerance (7 levels)
				levels)	
				SS~~008 Glorifying	
				Drug Use (9 levels)	
				SS~~00A Gambling (9 levels)	Gambling (4 levels)
Age based:			Age:	SS~~000 Age Range (9	
• Web Y = all children			0. Safe for kids	levels)	
• Web Y7 = older children			Parental guidance (9		
(fantasy violence)			examples)		
• Web G = general audiences			2. Adults only		
<ul> <li>Web PG = parental guidance</li> </ul>					
suggested (moderate violence/					
sexual situations/ infrequent coarse language/ suggestive		بز			
content)					
• Web 14 = parental guidance			300 0		
strongly suggested (intense					
violence/ intense sexual					
situations/ strong coarse					
language/ intensely suggestive content					
<ul> <li>Web MA = mature audiences</li> </ul>					
only (graphic violence/					
explicit sexual situation/ crude					

- A miderale de melanter exhana de la california

indecent language			/#140 (c) (2000 (504) (104)			
					Other Adult	
				Themes (9	levels)	
see age	Linguaggio (5 levels)	Language (5 levels) (including profanity				
	Pubblicità (5 levels)	-and-nate-speech)		<u></u>		
	Religione (5 levels)					:
	Politica (5 levels)		į.			
	Didatticità (5 levels)					Educat, Content (5 l.)
						Multiculturalism (6 l.)
						Environmental Awareness (6 levels)
						Safety (5 levels)
						Canadian Content (3 l.)
						Commercial Content (4 1.)

# 3.3. Some General Remarks and Conclusions about these Observations

#### 3.3.1. General Remarks

Criteria for assigning labels which allow the more choices and the greater adaptability at the customization level are with

- the more levels inside each category

- not only age-based categories (so as to let to the person in charge of setting the criteria the possibility to judge by himself/herself what is convenient for a given age).

Criteria can be more or less subjective (and thus possibly inconsistent):

- age-based categories are rather subjective and linked with culture

- quality categories are also subjective

- the more levels inside a category, the more nuances and thus the more risks of subjectivity.

# 3.3.2. Conclusions about these Observations

Following comments can be made from the tables of § 3 and, of course, concern only the ten analysed ratings. (Unfortunately, available information about evaluWEB are insufficient to be used here except for the breaking down of labelling categories.)

Several conclusions can be drawn first about who fill the different roles and about the link between rating and the commercial

- Some ratings (CyberNOTlist, Net Shepherd's Rating, SurfWatch's rating and SafeSurf Internet Rating Standard) have been linked, at least initially, to the development of a given filtering software (respectively by Microsystems[U.S.], the Canadian company NetShepherd, Spyglass
- Firms either ask 'representative' committee to set labelling vocabulary and criteria for assigning labels (for example, Microsystems, Spyglass/SurfWatch) or do it themselves (for example, NetSepherd and Adequate.com [U.S. entertainment web sites provider firm]). The case of SafeSurf seems special: it will no longer be offering the SafeSurf Internet Filtering Solution and currently present himself as a no-fee parents'
- The two firms in charge of defining criteria and vocabulary for assigning labels do not realise themselves the labelling: Net Shepherd lets labels assigned by third party communities composed of end users and have built a very famous database of ratings opinion and Adequat.com provides self rating service.
- On the other hand, four self ratings services (the Italian IT-RA, the U.S. RSCA and the U.K. Safe For Kids and Vancouver Webpages' Rating) have not been developed by firms but by non-profit organisations (the first two) or an individual (the last two).

From a cultural point of view, let us notice that the great majority of the ratings is:

• in English but one is written in Italian

• with criteria defined in U.S. except for Net Shepherd's Rating and Vancouver Webpages Rating Service (both made in the Western part of Let us add about third party ratings services that only U.S. people intervene to assign labels in the case of the CyberNOTlist and evaluWEB but the SurfWatch Surfer team includes also Japanese people. And let us notice that the Rating Communities of Net Shepherd « represent the Internet's

About the rating categories, let us make the following conclusions:

• Only the self rating services provide levels inside categories other than age-based categories.

• Age based (or quality) ratings are provided either by commercial firms (Adequate.com and Net Shepherd) or by non-profit organization. • One of the ratings allowing the most choices for the setting (for example, by parents) is provided by a no fee parents' organization (SafeSurf).

• The most frequent labelling categories are: sex, violence, and then age.

And let us as make a suggestion: Why not include in the categories specific labels for child pornography and calls to violence or hate in order to really and efficiently always censor it (already at the level of ISP)? This suggestion is in accordance with the conclusions of MAPI (see: http://www.info.fundp.ac.be/~mapi/mapi-eng.html) but is not made by CPSR (Computer Professional for Social Responsibility) (1997), for

# 3.4. Generalisation: What could be rated with PICS?

« PICS labels can describe any aspect of a document of a Web site... »: indecency (cf. current labels), privacy, intellectual property, subject categories, reliability of information from a site, software's safety (« to help protect computers from exposure to viruses ») (see Resnick 1997).

### 4. Ethical Issues and Questions

Ethical issues with filtering software will be discussed from the breakdown of table 0. Let us first remark that 'set labelling vocabulary and criteria for assigning labels' is not value-neutral and that 'assign labels' and 'set filtering criteria' can imply moral judgements.

#### 4.1. Outside PICS

Outside PICS, it happens that several roles (particularly 'set labelling vocabulary', 'assign labels', 'write filtering software' and even 'set filtering criteria') are filled by one sole commercial entity. Ethical issues are obvious with this kind of software: users are linked to the subjective value judgements of this firm!

#### 4.2. With PICS

With PICS, as explained above, the 6 roles can be filled by different entities. This can improve the situation from an ethical point of view but cannot delete any issue.

# 4.2.1. 'Set labelling vocabulary and criteria for assigning labels'

• First of all it must be noticed that to set labelling vocabulary and criteria for assigning labels is a really important role: as pointed out by CPSR (1997) « in general, the use of a filtering product involves an implicit acceptance of the criteria used to generate the ratings involved. » Who is in charge of this role?

#### 4.2.2. 'Assign labels'

- Who is in charge of the very sensitive role of assigning labels?
- Which of the two approaches (self-rating and third party rating) is the best?
- When a third party rating service is involved, the next questions are to be raised:
   Who is effectively represented by this third party? Is this party representative of a values-oriented organisation or of a given population?
   How are the ratings attributed?
- With self rating, the questions are:

How to oblige or, at least, to incite people to self rate?

And on the basis of which principle?

How to solve the problem of mislabelled pages, and particularly of deliberately mislabelled pages?

[As suggested by Resnick (Technology inventory), « The Internet community will need to co-operate in the creation of either vouching services, which vouch for authors who are honest in their self-labelling, or blacklisting services which keep track of authors whose labels are not reliable »1

• If people assign labels and if labelling is not compulsory all over the world, it is obvious that many sites will stay unlabelled. The question is then: What to do with unlabelled sites? If the software allow unrated sites, then the global control will not be efficient but if it does not, then innocuous and very interesting sites will be not accessible. (see the discussion of Weinberg on this subject). And thus in this case, « blocking mass communication. Filtering software, touted as a speech protective technology, may instead contribute to the flattening of speech on the Internet. » (Weinberg 1997)

# 4.2.3. 'Write filtering software'

• Who is in charge to decide:

Which kind of control/filtering? (see the 6 possibilities [suggest, search, inform, monitor, warn, block] in table 1.1) Which location? (see table 1.2)

# 4.2.4. 'Set filtering criteria' (= customize)

- Which kind of customization? In fact there is a dilemma: the more choices you give to the final users the more difficult it is to set! A solution in the future could be, as suggested by Resnick (Technology Inventory), the use of PICSRules (a format for writing filtering settings).
- Who is in charge of this role? Initially this role was dedicated to parents to control their children. But filtering software are used also by libraries (in U.S.), for instance to control adults (see Weinberg).
- Is it ethically justified to give such a power of control to this kind of entity?

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# Web sites with specific technology description

http://www.cyberpatrol.com http://www.microsys.com/cyber/fact.html

http://www.sserv.com/evaluweb/pics.html http://www.sserv.com/evaluweb/ratings.html

http://www.surfwatch.com
http://www1.surfwatch.com : Surfwatch PICS Label Bureau
http://www.news.com/News/Item/0%2C4%2C21751C00.html?sas.mail: Lipton, B., Software to filter workers'access, 4 May 1998

http://www.safesurf.com

http://www.rsac.org http://www.netshepherd.com (November 97) http://www.ratings.netshepherd.com http://www.adequate.com

http://www.citinv.it/

http://www.rsac.org/

http://www.weburbia.com/safe/ratings.html

http://vancouver-webpages.com/VWP1.0/

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