

# 1 Internet Access, use and Monitoring Policies in Selected 2 Organisations in Ibadan, Nigeria

3 Adelowo Oluremi<sup>1</sup> and Adeoye Adetola Atinuke<sup>2</sup>

4 <sup>1</sup> National Open University of Nigeria

5 *Received: 13 April 2015 Accepted: 4 May 2015 Published: 15 May 2015*

---

## 6 **Abstract**

7 The Internet has revolutionized, and continues to profoundly affect, the way one does  
8 business. Since the Internet has become a main source of communication both within and  
9 outside organizations, they are caught between providing Internet access to employees to  
10 perform job related activities and monitoring employees' use of Internet without infringing on  
11 their rights and privacy. This study therefore examined the extent of Internet access and use,  
12 pervasiveness of Internet monitoring, availability of Internet use policy and compliance to  
13 Internet use policy in the selected organisations. The study adopted ex post facto survey  
14 design. Stratified random sampling was used to select 246 organisations comprising those in  
15 public, private, not for profit and non-governmental sectors. An adapted questionnaire from  
16 Alampay and Hechanova's 2008 study was used to collect data from the organisations. One  
17 hundred and eighty three (74.4

---

19 *Index terms*— internet monitoring; employee monitoring; ibadan; internet use policy.

## 20 **1 Internet Access, use and Monitoring Policies in**

21 Selected Organisations in Ibadan, Nigeria

22 Introduction he Internet has revolutionized, and continues to profoundly affect, the way one does business. It  
23 is now a critical (if not the main) tool and venue for conducting commerce. As a tool, it allows buyers and sellers  
24 nearly unlimited access to information, goods and services. As a venue, it does away with the limits of economical  
25 and more productive. For many global business firms, reduction in the cost of disseminating information and  
26 improvement in the speed of qualitative decision-making has been possible only due to use of the Internet. Many  
27 observations agreed that the Internet has not only boosted the productivity in the organizations but has also  
28 created a sense of empowerment among workers (Stratopoulos and Dehning, 2000).

29 There is no denying that the use of Internet in organizations has made employees more efficient and has  
30 improved communication channels. Undoubtedly it also affected organizations' employees and their workplaces  
31 in job design, conditions of work and other (numerous) ways. As noted by Barley 1996:

32 "Future prosperity is likely to hinge on the use of scientific and technical knowledge, the management of  
33 information and the provision of services. The future will depend more on brains than brawn" However, the  
34 Internet has also opened up new areas of concern such as its effect on workers' productivity (Anonymous, 2001).  
35 Stories of workers who abuse the Internet for their self-gain or at times malign the image of the organization are  
36 finding a place in the headlines of many news journals. Employees spend time surfing the net, communicating  
37 with their friends, relatives and counterparts during working hours, ??Ferris, 2000) checking their stock prices,  
38 shopping for travel bargains and exchanging personal e-mail via the Internet while at work -even though their  
39 companies prohibit these activities (Marsan, 2000).

40 According to IBM Global Business Security Index (IBM, 2004), 28,327 new viruses were discovered in 2004  
41 and this increased the number of known viruses to 112,438. Traditionally, viruses and other malicious software  
42 (malware) are hidden in e-mail attachments and malicious codes are also embedded in joint photographic experts

### 3 A) INTERNET USE IN THE NIGERIA WORKPLACE

---

44 group (jpeg) and bitmap pictures, so when employees visit websites with hacked or intentionally prepared images,  
45 their computer system get infected and thus affects their productivity (Telenor, 2004). Employees' misuse of the  
46 Internet can be an avenue for virus attacks on organisations system which will slow down performance and might  
47 eventually destroy the affected system. Although there are several means of detecting, containing and deleting  
48 malware, they still cannot protect the computer systems before they are exposed to the threat (Deisz, 2005).

49 The purpose of this study is to investigate the extent to which organisations in Ibadan monitor their employees  
50 Internet use and how Internet facilities are regulated. It also aims to know if there are organizational ICT policies  
51 in place to guide Internet use and whether such policies are made known to the employees. This study will assess  
52 the extent of problem that is encountered in the misuse of the Internet by the employees in the organizations and  
53 the disciplinary actions being imposed. It is intended to look at practices and attitudes among organisations in  
54 Ibadan regarding access to the Internet and monitoring of its use in the workplace.

55 What do employees use the Internet for in the organisations? Reports indicate that about 55 million people  
56 in the United States access the World Wide Web ("the Web") from their workplace on a daily basis ??Horrigan,  
57 2002). A Department of Commerce study indicates that Web usage in the workplace has a growth rate of  
58 approximately 54% per year (U.S. Department of ??ommerce, 2002). While such growth has the potential  
59 to increase worker productivity, it is not without significant problems (Lim et al., 2002; ??immers, 2002).  
60 The American Management Association indicates that more than 50% of all workplace-related Web activities  
61 are personal in nature ??Greengard, 2000). Another study indicates that, on average, employees spend 8.3  
62 hours a week surfing the Web for non-work-related activities ??Websense, 2002). These activities include  
63 online entertainment, reading news, making travel arrangements, online purchases, and searching for jobs. Such  
64 activities translate into billions of dollars a year in revenue lost due to lost productivity ??Mills et al., 2001).  
65 More so, personal web usage has caused organizations to face a host of other detrimental issues (Siau & Nah,  
66 2002). There is an increased burden on company servers as bandwidth and system storage gets clogged with non-  
67 work-related files ??Mills et al., 2001). Organizations also face heightened security risks from viruses and other  
68 malicious programs inadvertently downloaded by employees as they use the web for personal reasons ??Sloane,  
69 2002).

70 In another survey conducted in 2006 by Telemate.Net Software, Inc., a provider of Internet usage management  
71 and e-Business intelligence solutions, the survey covered 700 companies from a diverse crosssection of industries  
72 in America. Survey respondents included executives, senior Information Technology (IT) professionals, IT and  
73 human resource managers. Findings indicated that 83% of companies were concerned with inappropriate employee  
74 usage of the Internet and the resulting legal liabilities and/or negative publicity. Over 70% indicated that  
75 employee Internet abuse results in real costs to their companies in the way of additional network upgrades,  
76 lost productivity and slow network response. The concern about Internet abuse and the associated legal  
77 liabilities, negative publicity and excessive costs was consistent across industries, company size and job titles  
78 of the respondents ??Business Wire, 2000).

79 In a survey of public companies carried out in South Africa (Dancaster, 2001), findings reveal that: 69%  
80 experience loafing on the Internet; 70% experience accessing, downloading or sending through e-mail of  
81 discriminatory or sexually offensive jokes or pictures;

## 82 2 Global Journal of Management and Business Research

83 Volume XV Issue XI Version I Year ( ) A 65% experience clogged bandwidth or degraded system performance  
84 through abuse of the Internet system; 6% experience the violation of copyright laws or the posting of information  
85 in the name of the company that defames other companies or individuals; 60% have disciplined employees for  
86 Internet and email abuse; and 77% have reserved the right to monitor online traffic at any time. These results  
87 imply that there is a need to monitor employees' use of the Internet so as to prevent the organisations and reduce  
88 loss in productivity.

89 While most of the studies have been carried out in the highly developed countries Although all these studies  
90 have shed some light on the impact and benefits of the Internet, none of them focused on the misuse of Internet  
91 in the workplace which is why this study seeks to know how employees use the Internet provided by their  
92 organisations and how such use is monitored. Also, this study will be a guide to future researches in this area of  
93 Internet use in organisations.

### 94 3 a) Internet Use in the Nigeria workplace

95 Nigeria, although a Less Developed Country (LDC), is one of the largest economies in the Sub-Sahara region of  
96 Africa (Feldman, 1992) and many major multinational corporations and their affiliates conduct business there  
97 (Jason, 1997;Thompson, 1994). In Nigeria the Gross Domestic Product (GDP): purchasing power parity is \$110.5  
98 billion (1999 est.), the per capita purchasing power parity is \$970 (1999 est.) and in 1999 the number of Internet  
99 Service Providers (ISPs) is 5 ??CIA 2000 World Factbook).

100 The Internet usage trend is Nigeria has changed in a short period of time, In December 2000, Nigeria had  
101 450,000 connected fixed lines, no connected digital mobile line, 1 national carrier, 18 operating Internet Service  
102 Providers, 9 active licensed fixed-line operators, and 1 licensed mobile line operator (Ndukwe, 2005) Internet usage  
103 is still in its infancy in Nigeria. Many authors have written about Internet connectivity in Nigeria. According to

---

104 Adeya and Oyeyinka (2002) the level of access and connectivity is far below that of developed countries. Nigeria  
105 as a whole has only two percent of the Internet connectivity in the developed world. This is improving as a  
106 result of many universities and other institutions achieving direct access either through telecommunication or  
107 VSAT (wireless). As access grows, Nigerian researchers, scholars, and the general public have the opportunity  
108 to undertake research, teaching, learning, and other activities via the Internet.

## 109 **4 b) Previous Studies on Monitoring Internet use in workplace**

110 A 2007 survey by the American Management Association and the e-Policy Institute found that twothirds of  
111 employers monitor their employees' web site visits in order to prevent inappropriate surfing. And 65% use  
112 software to block connections to web sites deemed

## 113 **5 Global Journal of Management and Business Research**

114 Volume XV Issue XI Version I Year 2015 ( ) A off limits for employees. This is a 27% increase since 2001 when the  
115 survey was first conducted. Employers are concerned about employees visiting adult sites with sexual content, as  
116 well as games, social networking, entertainment, shopping and auctions, sports, an external blogs. Of the 43%  
117 of companies that monitor email, nearly three-fourths use technology to automatically monitor e-mail. And 28%  
118 of employers have fired workers for e-mail misuse. Close to half of employers track content, keystrokes, and time  
119 spent at the keyboard. And 12% monitor blogs to see what is being written about the company. Another 10%  
120 monitor social networking sites.

121 In a similar survey carried out in Malaysia by Yulihasri et al in 2006 on use of Internet in Malaysian workplace,  
122 the employees agreed that it is acceptable to use Internet for personal searches(mean= 3.82), surf Internet while  
123 at work(mean= 3.82) and even access sexually explicit websites if they are alone in their offices(mean= 3.77). It  
124 was also noted that Internet usage policies and careful usage did not get high level of agreement because their  
125 standard deviation are large (1.013 and 0.926) which shows that the employees are ignorant about acceptable  
126 use policies in the organizations or they just do not care.

127 According to a survey by Alampay and Hechanova (2010) on monitoring Internet use in workplaces in  
128 Philippines, a total of 112 organizations was surveyed and it reveals that 65% of the organizations surveyed gave  
129 Internet access to all its employees which show that the Internet have become more integrated into organizations  
130 and people's work. Even though access is provided, 58% block some sites and that larger organization restricts  
131 Internet access.

132 Most organizations (57%) monitor and review their Internet connections while 38% do not. The study also  
133 reveals that a little than half of the organizations surveyed have clear written organizational policies on Internet  
134 use, email use and use of instant messaging and what appears to be lagging is the articulation and implementation  
135 of Internet use policies which is the reason why Philippines organizations are encountering negative consequences  
136 including security breaches and diminished productivity. Though in some cases misuse of Internet has lead to  
137 discipline and even dismissals.

138 In the survey by Simmers and Anandarajan (2004) on Web Usage in the workplace in Nigeria, Malaysia  
139 and the United States, a total of 237 questionnaires were administered in 19 organisations(Manufacturing=4%,  
140 Services=41%, Wholesale, retail trade=5%, Finance, Insurance, Real Estate=30%, Education=2%, Govern-  
141 ment=4%, Self-employed=0% and Other=14%) in Nigeria. The study revealed that 224 (94.5%) employees have  
142 access to the Internet in their organisations. Also reveals that 28.3% of the companies blocked certain web pages,  
143 59.6% uses additional passwords for web access, 60.1% have clearly stated Internet use policies and only 29%  
144 strictly enforces its Internet policy.

## 145 **6 II.**

## 146 **7 Methodology a) Policy Compliance and Discipline**

147 Table ???.1 presents the results of the analysis of the pattern of policy compliance and discipline across the  
148 organisations. the results shows the organisations that have complined and disciplend an employee on Internet  
149 misuse. From table ???.1 the result shows that 31.1% of the organizations have ever disciplined an employee on  
150 misuse of office Internet facilities and 68.9% has not disciplined any employee. It also shows that 28.4% have  
151 ever disciplined an employee for misuse of company email and 71.6% has not disciplined an employee on misuse.  
152 Table ???.2 presents the result of the analysis of the forms of disciplinary actions that the organizations have taken  
153 against the employee that misuse the Internet facilities. From table 4.3 the results shows that 20.3% provide  
154 Internet access to all employees out of which the private organisations have the largest percentage of 12.1%.  
155 It also shows that 17.4% provide Internet access to only management staff with the private organisations with  
156 the highest percentage of 13.7%. Furthermore, the table shows that 62.3% provide Internet access to employee  
157 depending on their job description with 44.8% from the private organisations. The Pearson chi-square value is  
158 0.094 which shows that there is no significant association between type of organization and who has access to  
159 Internet in the organisation.

160 Tables ??, 4 and presents the results of the cross tabulation analysis between who has Internet access and  
161 Industry type. This table will show the association between the type of industry and who has Internet access  
162 across the organisations.

163 From table ??,4 the result shows that there is an association between who has access to Internet in the  
164 organisations and industry type with the Pearson chisquare value of 0.000. Majority provided access to  
165 employees depending on their job(n= 114) description, the more discriminating, in terms of providing access,  
166 were public administration/ government(n=7) organisations. Results showed that the more information intensive  
167 organisations (Information, Communication and Media) tend to provide access to everyone. Financial services  
168 industry (n=55) provides Internet access to employees depending on their job because their business depend on  
169 the Internet for successful and quick transactions.

170 Table ??,5 presents the result of the cross tabulation analysis between industry type and nature of Internet  
171 restrictions across the organisations. This is to test the association between the two variables. Table ??,5 shows  
172 that there is a significant association between industry type and some applications are blocked because the  
173 Pearson Chisquare value is 0.000, it also shows that 55.7% of the organizations blocked some application with the  
174 financial services having the highest ( 32.2%, n= 59). It also reveals that there is association between industry  
175 type and all form of restrictions except other types of restrictions (chi-square sig value=0.263) described by the  
176 respondents.

### 177 8 b) Internet Monitoring and Usage

178 The test for association was between one of the demographic variables which is the type of industry and questions  
179 "who monitors Internet connection in the organization?", "what do you monitor?", "which of the following  
180 are restricted?" and "has your organization experienced any problem with regard to employee Internet use?"  
181 Table ??,6(see appendix) presents the result of the cross tabulation analysis between industry type and what is  
182 monitored in the organisation.

183 From table 4,6, the result shows that 60.1% monitor content accessed on the Internet by their employees  
184 with the highest of 32.2% from the financial services industry and the least of 0% from the wholesale and retail  
185 industry. It also shows that only 1.6% monitor personal blogs of employee. Table ??,6 shows that content  
186 accessed on the Internet by employees have a significance association with industry type with a Pearson chi-  
187 square value of 0.000 which is significance. Table ??,7(see appendix) presents the result of the cross tabulation  
188 analysis between industry type and what is restricted on the organisations Internet facilities and the Pearson  
189 chi-square test between the two variables.

190 Results showed that 74.7% of the organisations surveyed block pornography sites, 59% blocked online gaming  
191 sites, 46.4% block social networking sites, 55.2% blocked downloading sites, 38.8% blocked yahoo messenger,  
192 37.2% blocked Skype, 33.9% blocked online mail services sites, 36.1% blocked blog sites and 11.5% agreed to  
193 blocking other sites like competitor's sites, entertainment sites, online shopping sites, and many more. It also  
194 reveals that the financial services industry blocked almost all the sites except for News site that has the least  
195 percentage of 2.2% which is also the same with other industries. The Pearson chi-square value also shows that  
196 there is an association between the industry type and all sites except News sites which has the significance value  
197 of 0.740 which is above the threshold value of 0.05. Thus it shows that there is no association between the type  
198 of industry and the news sites.

199 IV.

### 200 9 Discussion of Findings a) Organisations Profile

201 The results of the study shows that private organisation with small employee size are the most users of the Internet  
202 for their business transactions, just a few of the government owned organisation have Internet access. It also  
203 reveals that the majority were private organisations with the predominant type of industry is the financial services.  
204 This is so because these industries rely on the Internet as the backbone for successful business transactions  
205 nationwide. This findings differs from a similar study carried out in the Philippines by Hechanova and Alampay  
206 (2010) that reported that the predominant organisation type that have Internet access was retail and trade and  
207 that the large size organisations were the most users of Internet.

### 208 10 b) Internet Access and Use

209 The results of the study shows that the organizations surveyed have Internet access and mostly make use of  
210 the Local Area Network and Wireless Fidelity connections which shows that providing access to the Internet  
211 is becoming the norm among organisations in Ibadan. Moreso, over half of the organisations provide access to  
212 employees depending on their job description; and a few said it is available to all employees which deviates from  
213 what Alampay and Hechanova(2010) described in a similar study in the Philippines that the higher percentage  
214 of access was granted to all employees. It also shows that more than half of the organisations that have Internet  
215 access restrict their employees' access to the Internet and only few give employees complete access. This finding  
216 also agrees with the survey of 670 companies by carrier site Vault.com which examined Internet monitoring,  
217 the results indicate that 41% of organizations restrict or monitor Internet use (Net Monitoring Survey, 2000).  
218 The reason that could be adduced for providing access to Internet was for easy communication between offices

---

219 (financial services and information, communication and media) and aids research findings (research institutes,  
220 education/school and information, communication and media). Respondents also perceived that access to the  
221 Internet would lead to higher productivity among employees. This agrees with the findings of Alampay and  
222 Hechanova(2010) that the popular reason for

## 223 11 c) Internet Monitoring and usage

224 Although Internet access is provided, a little below half of the organisations monitor websites connections of all  
225 employees and for selected job categories while a larger percentage does not restrict usage of the Internet. Also,  
226 a little below half of the organisations have written policy on Internet use and some uses a dedicated MIS staff  
227 and automated software to monitor Internet. In addition, majority of organisations that block some applications  
228 also agreed to the fact that some of the blocked sites can be accessed after work hours are private organisations  
229 and mostly the financial services industry.

230 However a few of the organisations reported that some applications can be accessed if permission is requested to  
231 justify why the websites are to be accessed. These restrictions are necessary so as to aid employees' concentration  
232 at work and would reduce traffic congestion on organisations servers. This finding agrees with the AMA survey of  
233 2005 which showed that employers are increasingly concerned about inappropriate Web surfing, and 65 percent  
234 of employers use software to block connections to some web sites, a 27 percent increase over an earlier 2001  
235 survey ??AMA, 2005). But according to Alge (2001), employers should allow employees personal Internet time;  
236 exercising excessive control impedes ideas and innovation. The Internet is a productivity tool in that it makes  
237 communication quicker and more efficient. As a learning tool, it gives employees access to new knowledge, which  
238 makes them better in their jobs. Employees become both more effective and efficient. This increases their self-  
239 esteem, which improves customer service and interpersonal relationships (Singh, 2004). Therefore, it is not only  
240 discriminatory to allow only some employee's access to the Internet, but it is also being selfish. The results also  
241 revealed that the smaller organizations really monitor their employees' Internet use. This might be due to the  
242 fact that most of them are privately owned and are extensions of other offices with several branches and outlets  
243 across the country and it is the management's decision to put all office Internet use in the right order.

244 What organizations block and how they do so also varies. A lot of the organisations are bothered about the  
245 content accessed by employees through the Internet, although some of them check time spent and just a few  
246 monitor employees' personal blogs. Blocking of pornography sites is common but it has not however dissuaded  
247 people from trying to access such content as evident from the results of the study. Almost all the organisations  
248 block pornography and online gaming sites as this two sites can reduce employees' productivity level and also  
249 lead to lack of concentration and time wastage which is precious to the organisation. This agrees to the findings  
250 with the study of Deisz (2005) on Norwegian organisations that reported that 73 % of Norway active adult users  
251 accessed the Web at least once from work, 41% access the Web a majority of the time at work, and 15% go  
252 online exclusively at work. Some organisations block some social networking sites like facebook, twitter and the  
253 likes, as they also distract employees' from the job. Some organizations agreed that they block employees from  
254 downloading music, pictures and video as these sites clogs up the bandwidth and makes the Internet connection  
255 slow and also to protect their computer systems from viruses attached to the downloaded materials. Online mail  
256 services were blocked by most of the financial services industry as most communication is meant to be within the  
257 organisations and other branches across the nation and every employee has company email for communication  
258 and business transactions. Whitepapers (web@work, 2004), (Davies, 2001) and (SecuComp, 2005) all concluded  
259 that cyber-slacking (surfing the web at work) is a major problem in most companies and that 37% of American  
260 workers surf the Internet constantly at the job, and that more than a half of them often use the Internet for  
261 private purposes at work. Also Dancaster (2001) reported that 64 percent of employees use the Internet at work  
262 for personal interests; and 37 percent say they "surf the Web constantly" while on the job. Caroll(2007) also  
263 reported that 60 percent of online purchases occur during normal work hours, as does 70 percent of porn traffic.  
264 Social networking sites are also becoming a particularly tenacious distraction. But almost all the organisations  
265 do not block news sites this might be due to the fact that everybody needs to know what is happening around  
266 them and in the world generally.

267 Some communication applications' sites like Yahoo messenger and Skype were blocked by a little less than half  
268 of the organisations that were surveyed. Instant messaging was seen as a more problematic application especially  
269 in the financial services industry, as fewer organizations restricted the use of yahoo messenger, Skype and blogs.  
270 Some IT managers indicated that their organisations allowed internally developed instant messaging devices that  
271 could allow their employees communicate with themselves. This further illustrates the recognized importance  
272 of these applications, while also highlighting the security risks involved with using similar online-based services.  
273 As Villeneuve (2008) has claimed, trusting online services with personal communications may sometimes be  
274 misplaced. Majority of the organisations said employees' excessive chatting that is non-work related is a big  
275 problem they faced. Accessing pornography sites was not an uncommon problem too and likewise downloading  
276 of music, video and pictures, computer virus due to heavy downloads and playing online games as almost half of  
277 the respondents experience this

278 **12 Global Journal of Management and Business Research**

279 Volume XV Issue XI Version I Year ( ) A this for all employees and for selected job categories while a little  
280 above half do not. The organisations that do review company issued emails mostly do it routinely and only  
281 few do occasionally or when specified. It further shows that a little above half of the organisations review  
282 all employees' computer files, a few review for selected job categories and less than half do not review their  
283 employees' computer files. More so, few of those that store and review employees' computer files do it routinely  
284 and regularly. This finding disagrees with the American Management Association (AMA) study in 2005 that said  
285 that 3.63% employer's store and review employees' computer files. This implies that although some organisations  
286 store and review employees' computer files yet not all of them informed their employees' on organisations policy  
287 of monitoring files. The results also show that the private owned organisations were in the majority of those that  
288 store and review employees' computer files. In fact, the results also revealed that just a few of the organisations  
289 are bothered about what employees use their computer systems and emails for. This might be because most of  
290 them do not have enough resources in form of revenue and human capital for putting this process in place. It  
291 can also be due to the fact that most of the organizations' management staff does not have fore knowledge of the  
292 side effect of computer and Internet abuse.

293 **13 e) Policy on personal use of ICTs**

294 Findings shows that the development of clear and written organizational policies for using ICT facilities is in  
295 place in a little less than half of the organisations. Only few reported having email use and Internet use policies.

296 Many private organisations, specifically financial services and information, communication and media already  
297 have policies in place and their policies are in compliance to industry regulations, although some are imposed  
298 by their head offices. Some of the information, communication and media services organisations are government  
299 owned and nongovernmental organisations are the least advanced in developing policies for ICT-use. A few agreed  
300 on informing employees of organisation's policy on monitoring email messages and more than half did not inform  
301 their employees of the policy. This shows that just a few of the organisations actually informed their employees  
302 that there are policies governing the use of Internet. These findings agree in part with a similar study by ??oung  
303 and Case (2004) in America, the results indicate that 48% of the organizations had instituted an Internet Use  
304 Policy and 52% did not. Internet use policy is not fully utilized in the organisations and this may be because  
305 there are no policy developers or the management is ignorant of the use of policy for restricting and monitoring  
306 employee Internet use and the management is scared of breaching employees' privacy. Most employees believe  
307 they are entitled to a little of privacy when at work and they should be able to do anything in their private place  
308 but there should be balance between privacy and productivity. As noted by Signh 2004:

309 "An Internet policy is no different from any other organizational policy. Internet policies or Internet usage  
310 policies are designed to regulate the day-to-day usage of Internet facilities. Internet policies are designed to  
311 protect the rights of the employer and the employees, with regard to the use of Internet facilities. In many  
312 instances, policies are developed to ensure fairness and equity in the employer-employee relationship."

313 The organisations that put policies in place said this act has helped to increase productivity but some argued  
314 that their employees would not be free at work and thus it may reduce their self-esteem and morale.

315 **14 f) Policy Compliance and Discipline**

316 A little above half of the organisations agreed to ever disciplining their employees on breaching company policy  
317 on ICT use. About half of those that agreed to ever disciplining their employees on breaching these policies  
318 were on misuse of office Internet and misuse of company email. Majority were issued formal warnings and few  
319 led to dismissals. The incidence of discipline is higher in small organisations than in the medium and large  
320 organisations showing that most of the organisations that reported having Internet use policy are implementing  
321 them and their employees are aware of the dangers of not complying. However, only few organisations with  
322 Internet or email use policy shows that many organisations are not aware of the importance of policies and have  
323 not experienced any legal issues on Internet misuse by their employees. This finding contrasts a finding of the  
324 American Management Association (AMA) in 2005, which reported that approximately 38% of 2,100 major U  
325 .S companies check their employee's e-mail and 54% monitor Internet connections (Yulihasri, et al, 2006). Of  
326 these organizations, 17% have fired employees, 26% have issued formal reprimands, and 20% have given informal  
327 warnings. The predominant industry that have complied and disciplined employees for inappropriate Internet and  
328 email use were the financial services and the information/communication/media industry, this is because they  
329 are branches to larger organisations. This may be due to the fact that the larger organizations are more likely  
330 to already have clear guidelines and policies, and may also have the dedicated resources in place for monitoring  
331 their information and communication systems.

332 **15 Global Journal of Management and Business Research**

333 Volume XV Issue XI Version I Year 2015 ( )

334 **16 A d) Email Use and Computer Surveillance**

335 Most of the organisations do not review or store employees email messages. Only a few agreed to do V.

---

## 336 17 Summary

337 The study investigated how employees' use of Internet is monitored in organisations in Ibadan, Oyo state, Nigeria.  
338 The study focused on Internet access and use, Internet usage and monitoring, employee email use, computer  
339 surveillance, policy on personal use of ICTs in the organisations and implementation of policies. It also examined  
340 how Internet is restricted and common Internet misuse problems. Relevant literature was reviewed on employee  
341 monitoring, Internet misuse in workplace and electronic monitoring. The literature reviewed also includes policy  
342 making and Internet use, computer monitoring and privacy issues. Similar research literatures on this study were  
343 also reviewed. The survey design approach was adopted. A structured questionnaire was used to collect data  
344 from 246 organisations in Ibadan out of which 183 were used for the analysis. Descriptive statistics was used to  
345 analyze the data using frequencies, pie chart and cross tabulation to test the association between the variables.

346 Findings showed that the small size organisations tend to use Internet for their day to day businesses. Also the  
347 private organisations provide Internet access than those in the government sector, forprofit and non-government  
348 organisations and the financial services industry dominates among the private organisations. Most government  
349 organisations in Ibadan do not provide Internet access to their employees. Furthermore, findings also revealed  
350 that most of the organisations make use of the Local area Network and Wireless fidelity to set up their Internet  
351 connections. It also showed that most organisation grant Internet access to employees based on job description  
352 (selected employees) with some restrictions. Some sites are blocked and some can be accessed with permission  
353 while some after working hours.

354 Findings equally showed that just a few of both the private and government organisations have Internet  
355 use policy and also informed their employees about the policy. Majority of employers are concerned about  
356 what is accessed by their employees and most of them use a dedicated MIS staff and automated software for the  
357 monitoring exercise; and the monitoring is mostly done routinely. It also showed that almost all the organisations  
358 block pornography sites and few blocked news sites; and excessive chatting that is non-work related and accessing  
359 pornography is the most problematic experience on Internet misuse by employees.

360 This study established that a little above half of the private and government organisations monitor employees'  
361 computer files, Internet and email messages routinely and also informed their employees about the policy  
362 governing such monitoring. Also, most of these private organisations that monitor employees' files and email  
363 messages are the financial services industry and they do so because of the integrity and nature of their business  
364 and most of the organisations that have Internet access do not have policy on Internet use.

## 365 18 VI.

## 366 19 Recommendations

367 The study established that there is a need to put in greater effort to policy documentation and dissemination,  
368 employee education on Internet use and in establishing systems that will maximize the benefits of Internet  
369 technology while minimizing its risks.

370 More so, the organisations must balance employee productivity with privacy. If it is an organization's policy  
371 to store, review and monitor employee Internet use then such information should be protected. It also requires  
372 developing organizational capabilities to secure such information from outside intrusion and pressure. The  
373 researcher recommends that organisations should sensitize their employees on the content of Internet use policy  
374 so that they can be aware of the consequences if breached. Also, organisations should employ a good policy  
375 developer that would consider the employees privacy with respect to productivity so that the restrictions and  
376 guidelines will not affect employer-employee relationship, employee efficiency and organisation's productivity.

377 The limitations of this study are primarily a function of sample size and inadequate time. Even though  
378 responses were relatively equally distributed among organization size and industry type, a larger sample size  
379 would increase the robustness of results. Ultimately, results will assist organizations in improving employee  
380 Internet management, limiting risk, and maximizing employee productivity.

## 381 20 VII.

## 382 21 Conclusion

383 Based on the findings of the this study, it can be concluded that most of the organisation surveyed in Ibadan  
384 have Internet access, use Local area network connection and are mostly private organisations. It also revealed  
385 that most employers grant Internet access to employees depending on their job descriptions and restricts their  
386 connections by using blocking software and a dedicated MIS staff. Content accessed on the Internet by employees  
387 is the major concern of the employers has pornography sites, online gaming sites and social networking sites were  
388 blocked by most of the organisations. In addition, most organisations that review and store employees email  
389 messages and computer files do it routinely. It can be concluded that

## 390 22 Global Journal of Management and Business Research

391 Volume XV Issue XI Version I Year ( )

392 **23 A**

393 The study revealed that the small organizations which are mostly private organizations had disciplined their  
394 employee on misuse of office Internet and company email. It further revealed that just one organization has  
395 dismissed an employee on misuse of the company's email and Internet, thus implementation of policy and  
396 compliance to policy is yet to find the right foot in the organizations.

397 most organisation that have Internet, restricts employees use and monitor what they actually do on the  
398 Internet.

399 However, just a few of the organisations have written Internet use policy, which shows that the articulation  
400 and implementation of clear written policy is still lagging. The study also shows that only few of the organisation  
401 that have Internet use policy have complied and disciplined its employees on Internet misuse.

402 The commonly encountered problems in the organisations were excessive chatting that is non-work related  
403 and accessing pornography sites at work.

404 **24 a) Suggestions for further studies**

405 The following recommendations are made for further studies: 1. This study basically considered the use of  
406 Internet in organisations in Ibadan. More studies are needed to explain the pattern of Internet adoption by  
407 organisation as there are different adoption stages to technology. 2. This study is an organisational study that  
408 focused on employers alone, future study can focus on both employees and employers so that the perception of  
409 both side can be known. 3. More so, this study was not anchored on any empirical theories, future studies can  
410 look into empirical theories to understand the antecedents of Internet abuse, so that more variables can be used  
411 to gather data. 4. Lastly, it is recommended that further study on the impact of Internet use on employees'  
412 productivity should be carried out.

413 **25 Global**

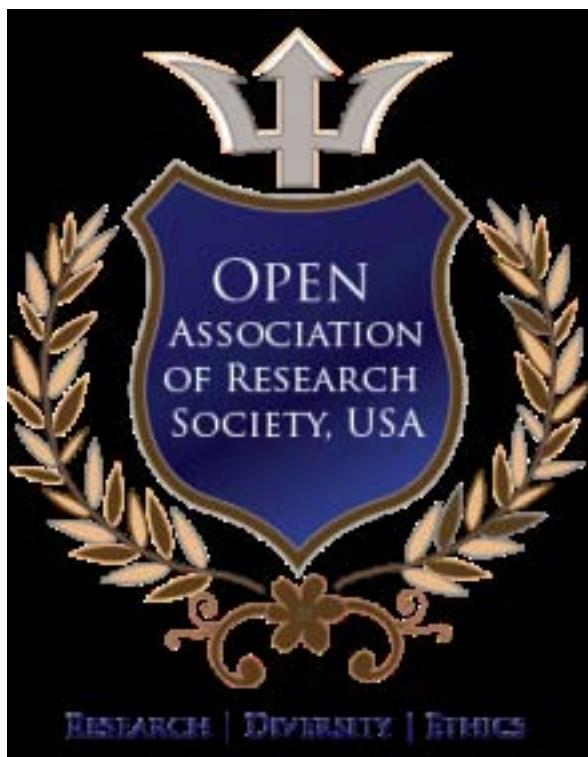


Figure 1: Global

---

<sup>1</sup>© 2015 Global Journals Inc. (US) 1

<sup>2</sup>© 2015 Global Journals Inc. (US)

<sup>3</sup>© 2015 Global Journals Inc. (US) 1problems. Alampay and Hechonava (2010) reported the same findings in their study.

---

**41**

Variables	Yes(%)	No(%)
Has your organization ever disciplined an employee on misuse of office Internet facilities?	31.1	68.9
Has your organization ever disciplined for misuses of company email?	28.4	71.6

Figure 2: Table 4 . 1 :

**42**

Year  
 Volume XV Issue XI Version I  
 ( )

Variables	Dismissal (%)	Formal Warning (%)	Informal Warning (%)	Other form of discipline (%)	No response (%)
What form of discipline was taken on misuse of office Internet facilities	1.6	25.1	2.7	1.6	68.9
What form of discipline was taken on misuse of company email	1.6	25.1	1.6	0	71.6

[Note: A]

Figure 3: Table 4 . 2 :

**43**

Type of organization	Who has access to Internet in the organization						Total
	All Frequency	%	Only management Frequency	%	Depending on job Frequency	%	
Government	8	4.4	5	2.7	17	9.3	30 16.4
Private	22	12.1	25	13.7	82	44.8	129 70.5
For profit	2	1.1	1	0.5	12	6.6	15 8.2
NGO	5	2.7	1	0.5	3	1.6	9 4.8
Total	37	20.3	32	17.4	114	62.3	183 100

Pearson Chi-Square	Chi Square Test			Asymp. Sig. (2-sided)	
	Value	Df			
	10.808 a	6		.094	

Figure 4: Table 4 . 3 :

**44**

Industry	type	Freq	All %	Only mgt/supervisor	Freq	%	3	1.6	1	0.5	3	1.6	Depending on job
Business/professional service	Research	9	4.9										
Wholesale/Retail		5	2.7										
		2	1.1										
Public admin/govt		2	1.1	2	1.1		3						1.6
Financial Services		4	2.3	3	1.6			55					30.1
Manufacturing		1	0.5	7	3.9				9				4.9
Infor/Comm/Media		8	4.4	2	1.1				7				3.9
Education/ School		1	0.5	2	1.1				7				3.9
Others		5	2.7	9	4.9	9							4.9

Figure 5: Table 4 . 4 :

---

**45**

Year

Volume

XV

Issue XI

Version I

( ) A

Global

Journal

of Man-

agement

and

Business

Research

INDUSTRY

Application blocked Freq % 4 2.2 6 3.3 1 0.5 6 3.3 59 32.2 9 4.9 Blocked ca

Busi-

ness/professional

service Research

Whole-

sale/Retail

Public

admin/govt

Financial

Services

Manufacturing

Infor/Comm/Media6

3.3

3

Education/ 4

2.2

0

School

Others

7 3.8

2

Total

102 55.7

66 36.1 55

Figure 6: Table 4 . 5 :



415 .1 Global Journal of Management and Business Research

416 Volume XV Issue XI Version I Year 2015 ( ) A

417 [ Net Monitoring Survey ()] , *Net Monitoring Survey* 2000. 2000. 805 p. 211.

418 [Gfi Webmonitor (2005)] , Gfi Webmonitor . <http://www.gfi.com/-webmonitor/> 2005. December 11. 2010.

419 [ World Internet Users. InternetWorldStats.com (2010)] , <http://www.Internetworkworldstats.com/stats.htm> World Internet Users. *InternetWorldStats.com* 2010. December 18. 2010.

420 [Libraries (2010)] , Libraries . <http://www.lis.uiuc.edu/gslis/research/Internet.pdf> December 13 2010.

421 [Wilder ()] 'A Question of Ethics'. C Wilder . *Informationweek.com* 2001. 2001. p. .

422 [Awoleye et al. ()] 'Adoption Assessment of Internet Usage amongst Undergraduates in Nigeria Universities-A Case Study Approach'. O M Awoleye , W O Siyanbola , F O Oladipo . *Journal of Technology Management and Innovation* 2008. 3 (001) p. . JOTMI Research Group (Santiago Chile.)

423 [Ali and Denga ()] *An introduction to research methods in statistics in education and social sciences*, A Ali , D I Denga . 1989. Calabar, Nigeria. p. . (Rapid Education publisher)

424 [Adebayo (2007)] *An Investigation of the Use of ICT in the Nigerian Construction Industry*, A O Adebayo . <http://www.itcon.org/2007/18> 2007. January 24. 2011. (Retrieved)

425 [Jason ()] 'Banking on computers'. P Jason . *African Business* 1997. 219 p. .

426 [Swanson ()] *Beware: Employee Monitoring Is On The Rise*. *Informationweek*, S Swanson . 2001. 2001. p. .

427 [Villeneuve (2008)] *Breaching Trust: An Analysis of Surveillance and Security Practices on China's TOM-Skype Platform, Information Warfare Monitor/ONI Asia*, N Villeneuve . <http://www.nartv.org/mirror/breachingtrust.pdf> 2008. June 30. 2011.

428 [Alge (2001)] *Can corporate security, privacy coexist?*, B J Alge . [fromwww.newsw-ise.com/articles/2001/5/privacy2.pur.html](http://www.newsw-ise.com/articles/2001/5/privacy2.pur.html) 2001. June 30. 2011.

429 [Leung ()] 'College student motives for chatting on ICQ'. L Leung . *New Media and Society* 2001. 3 (4) p. .

430 [Silva ()] 'Companies Take Steps to Combat Internet Abuse'. D Silva . *Puget Sound Business Journal* 2001. 2001. 22 (23) p. .

431 [Sonny ()] 'Computer Monitoring: Benefits and Pitfalls Facing Management'. S Sonny . *Information & Management* 2002. 39 p. .

432 [Simmers and Anandarajan (2004)] *Convergence or Divergence? Web Usage in the Workplace in Nigeria, Malaysia and the United States. Personal Web Usage in Workplace: A guide to Effective Human Resources Management*, C A Simmers , M Anandarajan . <http://www.idea-group.com> 2004. 2004. 200 Retrieved on 05 December, 2010. USA: Information Science Publishing.

433 [Davies (2001)] *Cybers lacking: Internet abuse in the workplace*, R A Davies . <http://www.Internetaddiction.ca/cyberslacking.html> 2001. July 20. 2011.

434 [Detienne and Abbott ()] 'Developing an employee centred electronic monitoring system'. K B Detienne , N T Abbott . *Journal of Systems Management* 1993. 44 (8) p. 12.

435 [Griffiths ()] 'Does Internet and computer "addiction" exist? Some case study evidence'. M Griffiths . *Cyberpsychology and Behavior* 2000. 3 (2) p. .

436 [Stratopoulos and Dehning ()] 'Does Successful Investment in Information Technology Solve the Productivity Paradox?'. T Stratopoulos , B Dehning . *Information & Management* 2000. 2000. 38 (2) p. .

437 [Anonymous ()] *E-business or Bust: The Impact of the Internet/Net Effects, Sales and Marketing Management*, Anonymous . 2000. 15 p. .

438 [Adams et al. ()] 'E-mail Monitoring in the Workplace: The Good, the Bad and the Ugly'. H Adams , S M Scheuing , S A Feeley . *Defense Counsel Journal* 2000. 67 (1) p. .

439 [Paul and Ibrahim ()] 'E-Mail, Electronic Monitoring, and Employee Privacy'. E H Paul , C M Ibrahim . *International Journal of Engineering Science and Technology* 1996. 23 (2) p. .

440 [Overly ()] *E-Policy: How to Develop Computer, E-mail, and Internet Guidelines to Protect your Company and its Assets*, M R Overly . 1999. NY: AMA.

441 [Zuckerman et al. () Eds) *The Shaping of Power, Rights and Rules in CyberSpace*, E Zuckerman , R Deibert , J Palfrey , R Rohozinski , J Zittrain . 2010. MIT press. p. . (Intermediary Censorship in Access controlled)

442 [Caroll (2007)] 'Electronic Monitoring in the Workplace: A Review and Discussion about Future Trends. The workplace'. W Caroll . <http://www.smu.ca/-academic/sobey/workplacereview/Nov2007/WPRnovIssue.pdf> Review 2007. January 12. 2011. 4 p. .

468 [Elise ()] M B Elise . *Competing Interests in the Post 9-11 Workplace: The New Line Between Privacy and*  
469 *Safety, 1317 Practicing L. Inst./Corp*, 2002. p. 303.

470 [Young and Case (2003)] 'Employee Internet abuse: risk management strategies and their Effectiveness'. K S  
471 Young , C J Case . *Proceedings of the American Society of Business and Behavioral Sciences*, (the American  
472 Society of Business and Behavioral SciencesLas Vegas) 2003. February 21, 2003. p. .

473 [Marsan ()] 'Employee Study Cites Rampant Internet Abuse'. C Marsan . *Network World* 2000. 17 p. 38.

474 [David et al. ()] *Essentials of research design and methodology*, D David , F David , G Marczyk . 2005. New  
475 Jersey: John Wiley & Sons Inc. p. 18.

476 [Madueme ()] 'Evaluation of the Impact of Information Communication Technology on Banking Efficiency Using  
477 the Transcendental Logarithmic Production function and Camel Rating'. I S Madueme . *International Journal*  
478 *of Engineering Science and Technology* 2010. 2 (1) p. .

479 [Alese and Owoyemi ()] 'Factor Analytic Approach to Internet Usage in South Western Nigeria'. B Alese , S  
480 Owoyemi . *Journal of Information Technology Impact* 2004. 4 (3) p. .

481 [Thompson ()] 'Here come the giants'. J Thompson . *African Business* 1994. 190 (2) p. 42.

482 [Websense (2005)] *Homepage of Websense Internet filtering company*, Websense . <http://www.websense.com>  
483 2005. January 25. 2011.

484 [Ndukw ()] 'ICT Infrastructure: An Essential Foundation for Implementing the WSIS Process in Nigeria'. E  
485 Ndukw . *Nigeria Annual National Conference*, 2005. p. 28.

486 [Olatokun and Adeboyejo (2009)] 'Information And Communication Technology Use By Reproductive Health  
487 Workers In Nigeria: State Of The Art, Issues, and Challenges'. W M Olatokun , O C Adeboyejo .  
488 <http://www.humantechnology.jyu.fi> *An Interdisciplinary Journal on Humans in ICT Environments*  
489 2009. November 2009. January 26. 2011. 5 (2) p. .

490 [Lehr and Lichtenberg ()] 'Information Technology and Its Impact on Productivity: Firmlevel Evidence from  
491 Government and Private Data Sources 1977-1993'. B Lehr , F Lichtenberg . *Canadian Journal of Economics*  
492 2000. 32 (2) p. .

493 [Ibm (2004)] *International Data Corporation (IDC) (2004) Worldwide Leader in Web Filtering Expands into Web*,  
494 Ibm . <http://www.idc.com/getdoc.jsp?containerId=32218> 2004. 2004. January 24. 2011. January  
495 17. 2011. (Global Business Security Index)

496 [Anonymous ()] 'Internet Abuse is on the Increase'. Anonymous . *Management Services* 2001. 2001. 45 (6) p. 3.

497 [Dancaster ()] 'Internet Abuse: A Survey of South African Companies'. L Dancaster . *ILJ* 2001. 22 p. 862.

498 [Deisz ()] *Internet filtering and how it affects security, efficiency and thriving in Norwegian Companies. Msc*  
499 *Thesis published with Royal Institute of Technology (KTH)*, J Deisz . <http://www.nislab.hig.no> 2005.  
500 2010. Stockholm. (Retrieved 13 December)

501 [Telenor ()] *IT sikkerhet -Trender og utvikling i*, Telenor . [http://www.telenor.no/bedrift/sikkerhet/news\\_show.php?news\\_id=35](http://www.telenor.no/bedrift/sikkerhet/news_show.php?news_id=35) 2004. 2010. (Retrieved on December 24)

502 [Leung ()] 'Loneliness, self-disclosure, and ICQ ("I Seek You") use'. L Leung . *Cyber Psychology & Behavior*  
503 2002. 5 (3) p. .

504 [Singh (2004)] 'Managing employee Internet abuse'. M A Singh . *South African journal of Information*  
505 *management* 2004. September 2004. 6 (3) .

506 [Camille (2002)] *Methods and Extent of Employer Use of Electronic Monitoring and Surveillance, Employee*  
507 *Privacy Law Retrieved*, L H Camille . <http://www.amanet.org> 2002. June 12. 2011.

508 [Forrester Research and Inc (2000)] *Monitoring Employee Communications. The Cyber law Encyclopedia*, For-  
509 rester Research , Inc . <http://www.gahtan.-com/alan/articles/monitor.htm> 2007. September, 23.  
510 November 5, 2000 Retrieved February 12. 2011. 2002. January 06. 2011. Gahtan, A. (Fox News (2000)  
511 Employers Crack Down on Internet Abuse)

512 [Seltzer ()] *Monitoring Software. PC Magazine*, L Seltzer . 2000. 2000. 20 p. .

513 [Urbaczewski ()] *Monitoring Strategies for Internet Technologies. Personal Web Usage in Workplace: A guide*  
514 *to Effective Human Resources Management. Information Science Publishing*, USA, A Urbaczewski . <http://www.idea-group.com> 2000. 2004, pp 178-200 Retrieved on 05 December, 2010.

515 [Orhuzee (2002)] 'More Promising E-Governance Strides in Nigeria'. E Orhuzee . *PC World West Africa* 2002.  
516 August. p. . IT Media Group

517 [Leung and Wei ()] 'More than just talk on the move: Uses and gratifications of the cellular phone'. L Leung ,  
518 R Wei . *Journalism and Mass Communication Quarterly* 2000. 77 (2) p. .

519 [Otokhine (2002)] 'Nigeria Moves Forward with E-Banking'. E Otokhine . *PC World West Africa* 2002. January.  
520 p. . IT Media Group

523 [Erah and Dairo (2008)] 'Pharmacy Students Perception of the Application of Learning Management System in  
524 Patient-Oriented pharmacy Education: University of Benin Experience' P O Erah , E A Dairo . *International  
525 Journal of Health Research* 2008. June 2008. 1 (2) p. .

526 [Papacharissi and Rubin ()] 'Predictors of Internet use' Z Papacharissi , A M Rubin . *Journal of Broadcasting  
527 & Electronic Media* 2000. 44 (2) p. .

528 [Schulman (2000)] *Privacy Foundation web site*, Retrieved, A Schulman . <http://www.undoc.com/onworsurproj.html> 2000. January 23. 2011.

529 [Privacy Rights Clearing House web site (2011)] *Privacy Rights Clearing House web site*, <http://www.privacyrights.org/fs/fs7-work.htm> January 23. 2011. (Retrieved)

530 [Raposa and Mujtaba ()] P Raposa , B Mujtaba . *The Ethics of Employee Monitoring: What You Need to Know.  
531 Business, Trust and Responsibility Conference*, 2003. p. .

532 [Cochran ()] *Sampling techniques*, W G Cochran . 1987. Wiley Eastern Limited. p. 268.

533 [Secure filtering overview Secure Computing (2004)] 'Secure filtering overview'. <http://www.securecomputing.com/index.cfm?skey=274> *Secure Computing*, 2004. January 26. 2011. (Retrieved)

534 [Sr ()] *Snoop at Your Peril. PC Magazine*, Sr . 2000. 2000. 19 p. 86.

535 [Peters ()] *Social Psychological Determinants of Mobile Communication Technology Use and Adoption: A  
536 Comparison of three Models to Explain and Predict Mobile Communication Technology Behavior (Thesis)*, O  
537 Peters . 2007. p. . University of Twente

538 [Survey of Internet Access Management in Public American Library Association ()] 'Survey of Internet Access  
539 Management in Public'. *American Library Association* 2005.

540 [Technology and Privacy Use Society of Human Resource Managers (2002)] 'Technology and Privacy Use'.  
541 <http://www.shrm.org/trends/visions/default.asp?-page=0300c.asp> *Society of Human  
542 Resource Managers*, 2002. June 23. 2011.

543 [Wei and Zhang ()] 'The Adoption and Use of Mobile Phone in Rural China: A Case Study of Hubei' L Wei ,  
544 M Zhang . *China. Telematics and Informatics* 2008. 25 p. .

545 [The Central Intelligence Agency (CIA) 2000 World Factbook (2000)] <http://www.cia.gov/cia/publications/factbook/index.html> *The Central Intelligence Agency (CIA) 2000 World Factbook*,  
546 2000. January 24. 2011. (Retrieved)

547 [Lyold ()] *The City of Ibadan*, P Lyold . 1967. Cambridge University Press.

548 [Lippert ()] *The Effect of Trust on Personal Web Usage in the Workplace. A guide to Effective Human Resources  
549 Management*. Information Science Publishing, USA, S K Lippert . <http://www.idea-group.com> 2004.  
550 2004, pp 178-200 Retrieved on 05 December, 2010.

551 [Leung and Wei ()] 'The gratifications of pager use: sociability, information-seeking, entertainment, utility, and  
552 fashion and status' L Leung , R Wei . *Telematics and Informatics* 1999. 15 (1) p. .

553 [Nwagwu ()] 'The Internet as a source of reproductive health information among adolescent girls in an urban  
554 city in Nigeria' W E Nwagwu . *BioMed Central Public Health* 2007. 7 (2) p. .

555 [Lim and Vivien ()] 'The IT way of loafing on the job: cyberloafing, neutralizing and organizational justice'.  
556 E Lim , G Vivien . [www.interscience.wiley.com](http://www.interscience.wiley.com) *Journal of Organizational Behavior* 2002. Wiley  
557 InterScience. 23 p. .

558 [Lane ()] *The Naked Employee: How Technology Is Compromising Workplace Privacy*, F S Lane . 2003. 2003.  
559 New York: American Management Association. (Print)

560 [Bus (1998)] *The Secret Agents of Fortune*, J Bus . <http://www.secure-data.com/art9.html> 1998. June  
561 12. 2011. (Retrieved)

562 [United Nations Publication(2007) Internet Use For Business Development: An Introductory Set Of Training Modules For Policy  
563 United Nations Publication(2007) *Internet Use For Business Development: An Introductory Set Of Training  
564 Modules For Policymakers*, 2007. Bangkok.

565 [Yulihasri et al. ()] *Use and Misuse of the Internet in the Malaysian Workplace: Preliminary Findings from an  
566 Exploratory Study IAMOT*, Ramayah T Yulihasri , J Norzalila , I Amlus . 2006. 2006.

567 [Omolase et al. ()] 'Use of Internet for Health Information amongst Medical Practitioners in a Nigerian  
568 Community' C O Omolase , C O Ihemedu , T O Ogunleye , B O Omolase . *TAF Preventive Medicine  
569 Bulletin* 2010. 2010. 9 (2) p. .

570 [Wallace (2004)] P Wallace . <http://www.cambridge.com> *The Internet in the Workplace: How new technology  
571 is Transforming Work*, (USA Retrieved on) 2004. January 31. 2011. Cambridge University Press.

572 [Sullivan ()] *Web Monitoring and Filtering Programs Promote Productivity* PC-Week, K B Sullivan . 1996. 1996.  
573 13 p. .

574 [Vanscoy ()] 'What Your Workers Are Really Up To' K Vanscoy . *Smartbusinessmag.com* 2001. 2001. 15 (9) p. .

575 [Leung and Wei ()] 'Who are the mobile phone have-nots?' L Leung , R Wei . *New Media & Society* 1999. 1 (2)  
576 p. .