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1	The Effect of Cloud Computing on Elements of Accounting
2	Information System
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5	Received: 7 December 2016 Accepted: 31 December 2016 Published: 15 January 2017

#### 7 Abstract

Purpose: The Purpose of this paper is to identifying the impact of Cloud Computing on the Elements of the Accounting Information System represented by: Establishment "Accounting 9 Entity.", Financial Operations, Documents, Accounting Books, Financial Reporting, Users, 10 Procedures, Software, Physical Devices. Methodology: The descriptive approach was adopted 11 in this study through the collection of previous literature on cloud computing and information 12 technology and their impact on accounting information systems. Results: The Cloud 13 Computing lead to Reducing the size of the enterprise in terms of the building and the offices 14 because they allow property anywhere without management commitment to a specific 15 location, Improving operational performance in terms of facilitating the completion of 16 operations and accurate accounting operations. The cloud has become a place for the 17 completion of operations and dialogue between employees or customers with enterprise 18 system, Dispensing the documents to ensure they are self-service to customers, reduce the 19 number of salespeople because it enables customers to check out the established products and 20 offer sales orders electronically from a variety of geographical locations without the need to 21 delegate sales to travel between clients and Finally It allows individuals and firms to use 22 software and physical equipment without the need to buy the software and install it on their 23 computers. Originality/value: The current research produced its main contribution to keep 24 abreast of technological changes and to identify what this technology reflects on the elements 25 of the systems, especially accounting information systems. 26

27

### 30 1 Introduction

he world is rapidly heading at the moment to evolution, technology and an excessive use of modern techniques as 31 a result of imposed requirements of this era upon us. We were obliged to obey them due to what this technology 32 poses as a source of power and authority. In addition, the world is completely dependent on these technologies 33 34 in the field of education, such as computerized lessons; in the field of communications such as the development 35 of cellular devices and communication networks; in the area of weapons technology to identify its goals and 36 remote control them, and in the field of business such as the development of information systems that it governs. When applied in the field of business, precisely, these technologies will impose some changes in the methods 37 used in the functions of information systems such as methods of data collection, processing and report. It may also 38 affect the elements of these systems by addition, dispensing or modification, especially accounting information 39 systems. 40

As a result of the technological changes witnessed by the world in recent times, a new notion was introduced in the field of computing known as Cloud Computing, which provided data special for companies on demand

Index terms— cloud computing, accounting information system, elements of the accounting information system.

#### 7 C) FINANCIAL DOCUMENTS

anytime and anywhere via the Internet in accordance with the software and security and confidentiality standards 43 of the data. This change did not stop at computer science and its regulations only, but to exceed to the accounting 44 science and its information system by making some changes and adding other elements to its system such as 45 software and hardware. This is especially after the introduction of the computer and its development from a 46 manual to an electronic system. Now and after the emergence of cloud computing that is ruling the accounting 47 information system due to the nature of the close relationship between that system and the technological changes 48 or information technology ??Bagranoff et. al., 2010, P 36), it leads us to question the impact that cloud computing 49 might have on the accounting information system. The researcher will address specifically the elements of the 50 accounting information system so that the purpose of the study will be: The impact of cloud computing on the 51

elements of the accounting information system. 52

This study is an attempt to answer an important research question, which is:-What is the nature of the 53 impact of cloud computing on the elements of accounting information system? represented by: 1. Establishment 54 "Accounting Entity." 2. Financial Operations. 3. Documents. 4. Accounting Books. 5. Financial Reporting. 6. 55 Users 7. Procedures. 8. Software. 9. Physical Devices. 56

Given that cloud computing fall under the information technology, the significance of this study comes 57 58 from the importance of information technology to the accounting information system presented as follows: 59 1. Compatible Information Technology with and support the other component of an accounting Information

60 System. 2. Information Technology profoundly affects the way they now work and how they will work in the future. ??Bagranoff et. al., 2010, P 37). 61 II.

62

#### $\mathbf{2}$ Methodology 63

The descriptive approach was adopted in this study through the collection of previous literature on cloud 64 computing and information technology and their impact on accounting information systems. Information 65 Technologies were addressed because cloud computing is part of them. It was also referred to some books 66

that talked about accounting information systems and their elements. 67

#### III. 3 68

#### Accounting Information System 4 69

Accounting Information systems "is a collection of data and processing procedures that creates needs information 70 71 for its users" ??Bagranoff et. al., 2010, P 5).

72 Another definition is "a unified structure within an entity, that employs physical resources and other 73 components to transform economic data into accounting information, with the objective of satisfying the information needs of variety of users." ??Wilkinson and Cerullo, 1997, P7-8) Furthermore, AI is "the whole 74

of the related components that are put together to collect information, raw data or ordinary data and transform 75

them into financial data for the purpose of reporting them to decision makers". ??Saleh et. al, 2010, 187) 76

Previous definitions indicate that the Components or Elements of the Accounting Information System play the 77 role of the collection and processing of data to eventually take it out in the form of information and deliver it to 78

users. That is why the components will be introduced, namely: 79

The events of a financial nature are called financial transactions, which result from the data documented to 80 complete the accounting system work processes. 81

#### a) Accounting Entity 5 82

It is considered as an established accounting unit which has an independent legal personality of the owners of 83 any entity that the financial activities of the business must be separated from the financial activities of the owner 84 of the facility ??Godwin, 2011, 11-12). 85

To set these activities, there should be system to govern them, and this system is the information system of 86 accounting. This means there is no facility without system and vice versa. 87

#### b) Financial Transactions 6 88

The processes are known as: "All the activities of internal and external events of the facility, and that they must 89 control it and channel it in order to achieve the objectives which it was created (Kassem, 2012.38). 90

#### 7 c) Financial Documents 91

They are documents that contain a set of basic and important statements of the registration process of 92 financial accounting (Kassem, 2012.215) which is obtained from the operations system (revenue system, expenses, 93 production, finance), and divided into: internal documents, source-tion within the enterprise, such as: and selling 94

bonds, bills receivable, external documents outside the facility, such as purchasing and billing of telephone bills, 95

bank statement. These documents are considered more authoritative and stronger than internal documents. 96

# 97 8 d) Accounting Books

98 After the provision of the documentary cycle in the operating system, the documents must be addressed so that 99 all the financial statements are adjusted for the facility. The use of accounting books aims at this treatment in 100 terms of registration and classification, summarization and analysis.

101 It has committed Jordanian Trade Act No. (??2) year (1966) in the article (??6) maintenance of general 102 journal as an e mandatory accounting: a book registers its day to day operations of the facility (Jordanian Trade 103 Act, 1966, article (16).

The nature of the financial statements in the accounting system of treatment requires maintenance of other books to complete the process and delivery of financial information to its users, namely: customary books such as General Ledger (General where this book contains all the accounts established that each account has its own page, and combines the effects of financial operations in the Journal in total at the end of each month ??rain, 2007.68-69) And the Subsidiary Ledger (Debtor & Creditors): This book contains all accounts receivable which are: people who have property amounts to them, and creditors are: people who have their payments on the facility.

# <sup>111</sup> 9 e) Financial Reporting

112 Is the final product of the accounting system information where:

<sup>113</sup> Preparation of financial reports on the enterprise for use by both internal and external parties.

# 114 **10 IV.**

# 115 11 Cloud Computing

Cloud computing definition "a pay-per-use model for enabling available, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, services) that can be rapidly provisioned and released with minimal management effort or service provider interaction" (Wang, 2011).

It is "a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction". ??Mell and Grance, 2011, 2-3) Cloud computing is also "a computing resource deployment and procurement model that enables an organization to obtain its computing resources and applications from any location via an Internet connection" (Chan et. al, 2012, 2)

# 12 Cloud computing is a colloquial term used to describe a way of using computer technology via the internet:

The architecting of cloud computing consists of three cloud services models: Software as a services (SaaS), Platform as a services (PaaS), and Infrastructure as a service (IaaS) as in figure bellow No. (1), Each model provides a level of abstraction that reduces the efforts required by the service consumer to build and deploy systems. ??

# 132 **13 f) Procedures**

Are all the steps related to the method of conducting transactions and processing of financial operations and reporting, and the date that must be implemented by (Abdullah et al., 1990.68)

# 135 14 g) User

136 The ones who are dialoguing with the system through terminals by Application Software. (Kassem,

# <sup>137</sup> 15 2012.293) h) Application Software

The application software is "all of the programs that enable you to use the computer to perform tasks and accomplish work". (laberta, 2011, 157) which is used by users to accomplish specific tasks. (www.openprojects.org/software-definition.htm) such as: Calculation process, recording financial transaction and classification, after that can preparing financial report and communication to users. This software use alternative to manual processes.

# 143 16 i) Hardware

The hardware includes all the physical components of the computer and its related devices, such as: Devices, Servers, CD, DVD, USB, Cable or DSL modem. (laberta, 2011, 6-7). and (IaaS) is Cloud service provider provides an entire virtual data center of resources (e.g., network, computing resources, and storage resources) ??Chan et. al, 2012, 2) Platform as a Service (PaaS) is the capability provided to the consumer is to deploy on to the cloud infrastructure consumer-created or acquired applications created using programming languages, libraries, services, and tools supported by the provider. (Mell and Grance, 2011, 2-3), and definition is Development environments for building and deploying applications ??Chan et. al, 2012, 2).

Software as a Service (SaaS) is the capability provided to the consumer is to use the provider's applications running on a cloud infrastructure. The applications are accessible from various client devices through either a thin client interface, such as a web browser (e.g., web-based email), or a program interface. (Mell and Grance, 2011, 2-3), and definition is Applications organizations use to perform specific functions or processes ??Chan et. al, 2012, 2).V.

### 156 17 Literature Review

157 Previous studies have been divided into two sections: Section I: Talks about accounting or accounting information 158 systems and cloud computing. Section II: Talks about accounting or accounting information and information technology systems, and the reason for the review of information technology is that the essence of cloud computing 159 is that some Information Technology processes move from the user's personal computer or the in-house file server, 160 161 to an external supplier ?? Page, 2010, 5). Section I: Literature review Accounting or AIS and cloud computing Sekar and Maniatis (2011) show that Cloud computing provides users the ability to reduce operating costs and 162 capital expenditures because of the infrastructure provided to them. Also, Ebenezer et. al. ??2014) shows 163 that "cloud computing can still be applied successfully for accounting purposes. Though cloud accounting may 164 seem not too different from a desktop accounting in nature, in practice, cloud computing has a lot of ways by 165 which it can enhance accounting. The goal of every Accounting Information System is to collect and store data 166 167 about activities and transactions; process data into information that is useful for making decisions; and provide 168 adequate controls to safeguard the organization's assets. With the benefit of cloud computing giving every user the opportunity to be mobile with everything he or she does, financial information can no more be delayed. 169 170 Accountants on the cloud can do mobile accounting by approving transactions; authorizing payments; entering financial data; preparing financial statement; and what have anywhere without necessarily being in an office 171 where the accounting software package may have been installed on the desktop. This mobility opportunity would 172 afford accountants the benefit of sharing timely information which would enhance the speed of decision making. 173 174 Moreover, financial data can be stored at a relatively cheaper cost with no need for investment in infrastructure 175 and its maintenance cost".

When financial information is provided with all timeliness and speed through sharing and receiving information on the cloud, decision making is enhanced in the whole organization. All information is stored and all transactions are done in the cloud, in a real-time situation, just a laptop with a modem or a smart phone can still keep business going. Zhygalova (2013) shows that in "companies that perform selective outsourcing cloud users indicated higher improvement levels in their accounting processes than non-cloud users. This leads to the conclusion that outsourcing service providers may improve perceived value of their services by adopting cloud systems".

The study of Christauskas and Miseviciene (2012) shows "Characteristics of the cloud computing advantages is: 1. Reduces expenses on hardware and software, networking management and overall IT. 2. Adding new software is very simple. 3. Web browser is all needed to access accounting, all users will have the same version of software, offer real-time backup which results in less data loss. 4. Global access: employees, partners and clients can access, and update information wherever they are, rather than having to run back the office"

187 Section II: Literature review Accounting or AIS and Information Technology Qatawneh (2012) showed that 188 "e-commerce had a positive impact on the AIS and that e-commerce has a significantly statistical relationship 189 with AIS itself, AIS development, cost reduction aspect in the AIS of the bank, the aspect of improving the 190 operational performance of the bank's AIS and finally with the customer service".

Moorthy et. al (2012) talked about "Application of Information Technology in Management Accounting 191 Decision Making. The study indicate that IT has major impact on the costs, and shows that IT can improve 192 accounting department efficiency and produce result effortlessly, timely and accurately". Moghaddam et. al. 193 (2012) show that "information technology increase accuracy in accounting process, decrease cost of gathering 194 information, and has affected on accountants they need to acquire new skills like as applied software's of 195 accounting, excel and access. Also as decreasing book keeping and saving time of accountants, it will be 196 provided the better background for improving accounting profession and role-creating more suitable accountants 197 in organizations". Sacer and oluic (2013) show that "IT influence the way how accounting Information System 198 199 operates, contributes a preparing, Processing, Presenting, and delivering accounting information. It significantly 200 contributes the accuracy and timeliness of accounting information and the quality of accounting information systems". 201

Dandago and Rufai (2014) argued that "accounting information technology can improve performance by reducing operational cost, facilitating transactions, relevant in simplifying issues and in the provision of quality information, and recommends to should continue to utilize and upgrade their information technology for efficient service delivery and profitability".

### 206 **18 VI.**

### 207 **19** Discussion

When we applied cloud computing recommended reviews of infrastructure, software, personnel, procedures and data **??**Kinkela, 2013, 4). After reviewing the theoretical literature that talked about cloud computing, information technology and accounting information systems, it has been confirmed that cloud computing and information technology have multiple effects which are presented as follows:

The The meaning of accounting unit is that the entity has its own personality dependent from its owners. Cloud accounting means they are dealing with an entity with its own rules and not with individuals. The cloud system helps accomplishing a variety of jobs including accounting, management, and helps employees and stakeholders access to applications through computers and cellular devices (Lobana, 2013).

On the other hand, it is a physical entity of the facility (facility or building site). Upon application of cloud computing, they allow employees, partners and customers access to the system and update data from anywhere without returning to the office (Christauskas and Miseviciene, 2012). This will lead to reduce the size of the business in terms of building and offices because it will make the facility management possible from anywhere

220 without the obligation of a specific place, a so-called virtual facility.

## 221 20 b) Financial Transactions

These operations are reflected for all activities of internal and external events of the entity of a financial nature.

As shown in Lobana (2013), cloud computing will enable the organization to provide service in a timely manner.

In addition, all the studies have shown that cloud computing and information technology improve the performance

of operations as follows: 1. ??andago

## <sup>226</sup> 21 c) Financial Documents

By definition of (Kassem, 2012.215), the financial documents are documents that contain a set of basic and 227 important financial data of the registration process of accounting. The overall objective of the document is 228 to contain important data which can be dispensed in cloud computing because it ensures selfservice to the 229 customer. This means that the customer can ask for what they want as products through resources provided by 230 cloud computing over the internet by using the established system applications. These applications are stored 231 within the cloud (Office of the Privacy Commissioner of Canada, 2010, p1-2) on any established system available 232 on the cloud. It was confirmed by ??hristauskas and Miseviciene (2012,16) that the cloud based accounting 233 system is basically a way to run business accounts entirely online. 234

Thus, all the business accounting process may be carried out on the cloud and the data stored on are available to the customer and the company. Thus, there is no need for documents to provide data for the accounting register.

## <sup>238</sup> 22 d) Accounting Books

They are used regularly as e-accounting books, for example, to record all daily operations of the facility (Jordanian Trade Act, 1966, Article 16).

This means that the financial statements of these transactions in the form of accounting entries associated with the accounts are affected by the financial process recording. The use of cloud computing is similar to an electronic system that dispenses accounting books because cloud computing applications provided by Software as a Services (SAAS) (Mell and Grance, 2011, 2 3) that allows the registration of all financial data entry bonds and bills of exchange and capture other applications that allow perform specific functions or processes **??**Chan et. al, 2012, 2).

# <sup>247</sup> 23 Global Journal of Management and Business Research

248 Volume XVII Issue III Version I Year ( )2017 © 2017 Global Journals Inc. (US) 1 D e) Financial Reporting

The final product is the financial reporting system of accounting information and these reports are the means by which information is communicated to users. It has been shown by Ebenezer et. al. (2014) that cloud computing can still be applied successfully for accounting purposes.

Financial reporting and accounting is one of the three mentioned by Kieso et. al. They defined, recording and communication **??**Kieso et. Al., 2011, P4).

As the cloud computing allows access to the information that is available on the facility provided Internet accessibility, computing services allow individuals and organizations using the software and hardware (Office of the Privacy Commissioner of Canada, 2010, P1)

Therefore, the users of financial statements have access to all the financial reports provided by the established system at any time according to the powers granted by the company to its users.

# <sup>259</sup> 24 f) Procedures

The actions of all the steps involved in the conduct of the transactions and processing of financial operations and 260 reporting of the data ?? Abdullah et al., 1990.68). The impact of cloud computing on these measures includes the 261 following: 1. Internal processes and procedures: the effect is the transition from the traditional manual system to 262 the electronic system within the enterprise. It gets thus established on the advantages of electronic transactions 263 of speed and accuracy in the completion of operations, processing and issuing reports and tighten oversight (Zubi 264 2011.60) 2. Foreign Operations procedures: the effect will be to facilitate the display products and provide sales 265 orders by customers self-service procedures (Office of the Privacy Commissioner of Canada, 2010, p2). Thus, 266 the customer can see the products offered through the provision of special applications from which to choose 267 the products they want and submit sales orders. This procedure is reflected on the internal processes that can 268 follow accountant sales request and issue sales invoice which is then recorded and its value rationalized in the 269 customer's account. The client can also follow the movement of his account through the applications provided 270 by the facility available on the cloud within the powers granted by the facility for customers. 271

# <sup>272</sup> **25 g) Users**

Kassem (2012.293) explains that they are the ones who are dialoguing with the system through terminals by Application Software. According to Lobana (2013) cloud computing allows employees such as accountants Connects to the central information-sharing resources throughout the facility. It also allows customers to communicate remote access to the information and resources of the computer from any place where there is available Internet (Office of the Privacy Commissioner of Canada, 2010, p6), as well as to access to all of their accounting data ??Christauskas & Miseviciene, 2012, 16). The impact that cloud computing might have is to make it easier for all users access the data they want.

On the other hand, the cloud computing has the same impact of electronic systems that may occur when using only a small number of individuals to complete the accounting operations (Zoubi, 2011.60). The number of salespeople is reduced because, as previously stated, foreign operations procedures are presented products and

provide sales orders electronically by clients from a variety of geographical locations without the need to delegate

sales to travel between clients.

# <sup>285</sup> 26 h) Software and hardware or physical components

It was stated formerly that the software are all the programs that enable an individual to use the computer to perform multiple tasks and accomplish a given work. **??**Laberta, 2011, 157). And that physical devices or hardware are all the physical components of the computer and its related devices. **??**Laberta, 2011, 6-7) Here we will review the impact of cloud computing on these two key components (software and physical equipment) in relation to the similarity of the nature of the impact on them in terms of the fact that:

## 291 27 Results

The nature of the impact of cloud computing on the accounting information system when applied is as follows: a) Reducing the size of the enterprise in terms of the building and the offices because they allow property anywhere without management commitment to a specific location. This is the reason why they allow employees and stakeholders access to applications through computers and cellular devices from anywhere, provided the Internet access.

b) Improving operational performance in terms of: 1. Facilitating the completion of operations in terms of 297 processing and reporting. 2. Timeliness and accurate accounting operations accuracy in accounting process. c) 298 The cloud has become a place for the completion of operations and dialogue between employees or customers 299 with enterprise system. This includes all business accounting process carried out on the cloud. d) Dispensing the 300 documents to ensure they are selfservice to customers, which is also reflected by allowing them to submit sales 301 orders, and enable staff to issue sell orders and make available processors on the established system of cloud-like 302 system. e) It is similar to the electronic systems to dispense accounting books and the reason is the availability of 303 applications on the cloud by Software as Services (SAAS). f) The cloud computing users can get all the financial 304 reports provided by the established system at any time according to the powers granted by the company to its 305 users. g) Making it easier for all users to access the data they want. h) Having the same impact as the electronic 306 systems in using only a small number of individuals to complete the accounting operations. It also helps reduce 307 the number of salespeople because it enables customers to check out the established products and offer sales 308 orders electronically from a variety of geographical locations without the need to delegate sales to travel between 309 clients. i) It allows individuals and firms to use software and physical equipment without the need to buy the 310 software and install it on their computers. j) It adds new software that is simple and easy to use. 311

# 312 **28 VIII.**

# 313 29 Recommendations

Through the presentation of the results, many effects of cloud computing on the accounting information system are reflected. Furthermore, it has many advantages from being used. In the light of these conclusions, the researcher recommends that: 1. When applying cloud computing, the infrastructure for information technology must be revised such as software and procedures for operations and other elements of the accounting information system. 2. The cloud computing should be applied by companies since it has many advantages, such as providing expenses of buying hardware and software, reducing the size of the enterprise, reducing the number of staff,

speed and accuracy in the completion of the operations and facilitating the procedures. 3. A study should be conducted on the possibility of industrial or commercial companies to apply cloud computing.

				1001
Services Models	Cloud	Stack Components		() Who is Responsible
	Stack			
	User Appli-	Login Registration Admin-	Authorization Trans-	Custome Custo Customeston
	cation	istration Authentication	action Dashboard	
		User Interface Reports		
SAAS PA <b>A</b> SAS	Application	OS App Svr Database Data	Programming	Vendor Vender
	Stack In-	Center Servers Network	Language Middleware	
	frastructure		Monitoring Disk	
			Storage Firewall Load	
			Balancer	

Year

[Note: Figure 1: Architecting Cloud Computing Infrastructure as a Service (IaaS) is the capability provided to the consumer is to provision processing, storage, networks, and other fundamental computing resources where the consumer is able to deploy and run arbitrary software, which can include operating systems and applications. (Mell and Grance, 2011, 2-3), 2017 D]

Figure 1:

321

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