JOHANNESBURG STOCK EXCHANGE

End-User Hardware and Software Requirements

For SENS News Submitters & Issuers

SENS Replacement Project

Version 1.1
7 March 2012

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1 Introduction

The Securities Exchange News Service (SENS) and Listings Information Database (LID) systems are responsible for ensuring that listings obligations and regulations are met. SENS provides the ability to publish price-sensitive information and announcements to the market, ensuring that this information is distributed fairly and timeously to all parties.

The SENS Replacement Project was initiated to create a new and more efficient web-based solution, comprising a proper workflow engine and a comprehensive document and content management facility to address current constraints and to cater for additional requirements lacking in the current system.

The new SENS system puts greater focus on the ability of SENS news submitters to submit news announcements via the web. The new system is a web-based application which will allow *issuers* and s*ubmitters* to manage the authorisation and submission of news stories from their web browsers. Some of the features of the new system include; the adoption of the PDF file format instead of propriety Microsoft Word format, the ability to track the submission through its review process in the JSE, and the ability for issuers to authorise submission by use of tokens.

This document details the minimum requirements which the Submitters and Issuers will have to conform to in order to properly access the new SENS system. The purpose of this document is to aid the submitters to plan for readiness for the forthcoming launch of the new SENS system.

2 Hardware & Software Requirements

2.1 SENS Submitters and Issuers

SENS Submitters are companies authorised by the JSE to make submissions. This section details the hardware and software requirements for users making submission using the new SENS system.

2.1.1 User Skills

The new SENS system is a web-based application which the user can use within their internet browsers (example: Internet Explorer). The users need to be skilled to have basic computer skills as follows:-

- Basic Concepts of IT
- Using a Computer and Managing Files
- Knowledge of basic file formats and their purpose
- Using a Graphical User Interface (GUI) like *Microsoft Windows®*
- Word Processing
- Spreadsheets
- Internet Basics: Websites, Web Browsing, Viruses, Connectivity

2.1.2 Un-supported Client Hardware and Software

The system is designed for the *specified* hardware and software, and therefore will provide expected usability and results within those parameters. The system may also work in other web-browsers like Safari, Opera and others, however there is no guarantee of expected execution and therefore should be avoided.

The system may also work on non-workstation hardware like smart-phones and handheld computers however it is completely dependent on the device's capacity and capability. The system is not developed to cater for any device specific usability aspects.

2.1.3 Supported Client Hardware and Software

The SENS web application will be used via a web-browser, and following are the software and hardware requirements for the user.

	Category / Grouping	Hardware / Software	Minimum	Best Case
1.	Operating System	Any workstation operating system supporting the supported web-browsers Eg: Windows XP, Windows Vista, Windows 7	Windows XP	Windows XP Vista Windows 7
2.	Browsers	Microsoft Internet Explorer	v7	v8
3.		Firefox	v3	v3.5
4.		Google Chrome	v5	v5
5.	Browsers SSL Capability	Support for SSL 128 Bit Encryption (above supported browsers have this inbuilt)	-na-	-na-
6.	Browsers Security Settings	- Allow pop-ups for Issuer Services Website - Enable JavaScript	-na-	-na-
7.	Add-Ins / PDF Reader	Adobe Acrobat Reader (or any PDF Reader that conforms to PDF standard 1.3 to 1.7)	PDF 1.3 / Adobe PDF Reader 4	PDF 1.7 / Adobe PDF Reader 8
8.	PDF Creator	SENS accepts PDFs created using the PDF versions 1.3 to 1.7. (Adobe Acrobat 4.0 to 8.0)	PDF 1.3 Adobe 4	PDF 1.7 Adobe 8
9.	Text Document Editor	Any Text Document Editor (Eg: Notepad, Wordpad). The textual news story submitted directly, or by conversion from PDF should conform to the ***Windows 1252 character set***.	-na-	-na-
10.	Office Software	Any spreadsheet and word-processing file reader for .doc and .xls (docx and xlsx included) Eg: Microsoft Word, Microsoft Excel	-na-	-na-
11.	Email Client	Any email client software. Eg: MS Outlook, MS Outlook Express	-na-	-na-
12.	SMS Device	Any SMS device (esp. Cell phone)	-na-	-na-
13.	Internet Connection	Any Internet Connection	100 kbps	1 mbps or higher
14.	Computing Hardware	Any hardware supporting the supported browsers and other supported software	-na-	Windows XP SP3 Windows 7
15.	Display Hardware & Unit	Resolution	1280 x 800 pixels	1440 x 900 pixels
16.		Color	Color	Color Display

			Display 16 bit	16 bit and higher

3 Glossary

Term / abbreviation / acronym	Description
IE	(Microsoft) Internet Explorer
SSL	Secure Sockets Layer A browser equipped with SSL support can communicate with the Issuer Services system ensuring that the information is transferred in a secure format. The supported browsers mentioned above have inbuilt support for SSL – no additional configuration is required.
PDF	Portable Document Format A format of a document that is highly popular and therefore accepted as an industry standard. PDF Documents (.pdf) are easier to use and read than other formats, and are less dependent on the clients native word-processing software.
Kbps	Kilo Bits per Second
Mbps	Mega Bits per Second
Windows 1252 character set	Windows-1252 or CP-1252 is a character encoding of the Latin alphabet, used by default in the legacy components of Microsoft Windows in English and some other Western languages. It is one version within the group of Windows code pages. External References:- - http://en.wikipedia.org/wiki/Windows-1252 - http://msdn.microsoft.com/en-us/goglobal/cc305145

4 Support

The JSE Customer Services may be contacted for any queries related to End User Requirements and other general queries.

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