

SmartChecker R1



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General



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Introduction

SmartChecker is a simple utility that provides the ability for spreadsheets to "read back" columns of figures to you, to save you having to either keep looking up and down to check you have entered things correctly, or getting a colleague across to read it out for you. It will work with any standard sound card capable of playing Wave files, or can use the Microsoft speaker driver (included in the ZIP) if you don't have a sound card.

How Does it Work

All SmartChecker does is read any digits on the clipboard and then terminate when there are no more digits. You can also Pause/Resume the read back by using the buttons or the space bar, or terminate the read back at any point. To make it work with your spreadsheet you will therefore need to create a macro that copies the selected range to the clipboard and then calls SmartChecker. Click on the appropriate item below for some samples:-

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Using with Microsoft Excel.



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A macro suitable for use with Excel 5 is provided, both as a standard worksheet with the name of SMARTCHK.XLS, and converted to an Add-In with the name SMARTCHK.XLA.

How it works

The macro first reads the WIN.INI file looking for an entry in a section called "SmartChecker" with the keyword "Location". It uses the information it finds to then execute the SmartChecker program, having first copied the selected cells to the clipboard. The SmartChecker program then reads the digits on the clipboard.

The WIN.INI file is modified when you first run SmartChecker, and subsequently if you ever move the SmartChecker program.

For this reason you must have executed SmartChecker independently at least once before you try using it with the supplied Excel 5 Macro/Add-In. Also, if you move it just execute it independently again.

Testing

To try out SmartChecker with Excel 5 simply:-

- 1 Execute SmartChecker once independently of Microsoft Excel. The easiest way is probably to just double-click on it (SMARTCHK.EXE) from File Manager. It will be in the directory you installed it in. If there are any odd digits on the clipboard it will read them, but you can ignore that.
- 2 Open the SMARTCHK.XLS worksheet in Excel 5.
- 3 Select a range of cells with numbers in from Sheet1.
- 4 Select the Tools menu, and then select the "SmartChecker" option which will be at the bottom. The digits will be read back to you.

Installing as an add-in

You can install SmartChecker permanently as an Add-In that will always be available to all your worksheets by:-

- 1 Closing the "SMARTCHK.XLS" worksheet if you have it open.
- 2 Selecting the "Add-Ins" option of the "Tools" menu.
- 3 Use the "Browse" button on the dialog that appears to locate the "SMARTCHK.XLA" file we supply (this is the XLS file converted to an Add-In).
- 4 Select the "SMARTCHK.XLA" file once you have located it, and then press OK.

You will now have a "SmartChecker" option permanently installed on the Tools menu, ready for use at a moments notice..

Using with other spreadsheets.



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You can make SmartChecker work with almost any Spreadsheet package that has a macro language. There is only a macro for Excel 5 currently distributed, but we are working on macros for other spreadsheets. These macros will be made available free of charge on our Internet site at <http://www.smartcode.com> and in our support forum on CompuServe - section/library 4 of the UKSHARE forum. We will also supply whatever macros we have at the time you purchase the licensed version - call to see if we have done a version for your spreadsheet.

However, you can probably make it work quite easily yourself. The basic requirements for a macro are to:-

- 1 Read the "Location" key of the "SmartChecker" section of WIN.INI - this will give the complete location of the SmartChecker program provided it has been executed at least once.
- 2 Copy the selected range to the clipboard.
- 3 Execute the SmartChecker program, using information from step 1 to locate it.

Please note however that we cannot offer to help you write the macro - we aren't experts at spreadsheets!

Installation



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Installation

Just copy all the files to a directory somewhere, and then add a macro to your spreadsheet to invoke it (or to any other program you want to - it doesn't have to be a spreadsheet - if you have columns of figures in a Word-Processing document you can get it to read them too).

With some packages you can also add buttons to your toolbars if you want to - you will need to check the documentation for the package you intend to use it with.

[Using with Microsoft Excel](#)

[Using with other Spreadsheets](#)

If you haven't got a sound card



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Using the Speaker Driver

If you haven't got a sound card, don't worry, you don't need to miss out on the audible feedback that makes SmartChecker such a powerful tool.

It is possible to make SmartChecker "speak" through your normal PC Speaker, using the PC-Speaker driver which we have included with SmartChecker.

To make use of the Speaker Driver, you first need to "install" it, and the steps required are as follows:-

- 1 Start the Windows Control Panel, usually found in the "Main" group in Program Manager.
- 2 Double-Click on the "drivers" Icon to start the driver installation utility.
- 3 Click on the "Add" button.
- 4 Select "Unlisted or Updated Driver" from the list (it is usually at the top), and click on "OK".
- 5 When asked to insert the disk with the new driver on, type in the directory in which you installed SmartChecker and click on OK. Alternatively you can click on the "Browse" button and navigate to the correct directory.
- 6 Follow the instructions for configuring the driver, using the "Test" option usually provides good quality sound.

Some notes about the Speaker Driver

There is an option in the Speaker Driver configuration to run it with "interrupts disabled" which effectively means while it is vocalizing a digit or phrase your PC will not respond to the keyboard or to mouse movements. We would suggest that you don't select that option, because you then won't be able to pause SmartChecker!

If you decide to replace the sounds provided with some of your own it is advisable to keep them fairly short and crisp.

Higher quality sound



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General

SmartChecker uses twelve Wave files for the digits "zero" to "nine", the word "minus", and the "ding" that separates different groups of numbers. Depending on where you sourced the evaluation version of the program you may have sounds sampled at either 11kHz - 8bit or 22kHz - 8bit or 22kHz - 16bit. The 16 bit, 22kHz samples are the highest quality, but also require the largest files. It is probably best to use these if you have a high-quality sound card. If using the Speaker Driver then the 22kHz, 8 bit files are perfectly adequate. The 11kHz, 8 bit samples are a little "tinny" but still perfectly useable on any system.

SmartChecker will determine the highest quality set of Wave files available, and use those, unless you have provided a set of samples of your own (perhaps in your own language).

The naming convention is as follows:-

- SCU0.WAV -> SCU11.WAV are the names you should use if you provide your own sample files. We do not supply these files.
- SCH0.WAV -> SCH11.WAV are the highest quality sound samples. (22kHz, 16bit).
- SCM0.WAV -> SCM11.WAV are the medium quality sound samples. (22kHz, 8bit).
- SCL0.WAV -> SCL11.WAV are the lowest quality sound samples (11kHz, 8bit)

SmartChecker looks for the files in that order and uses the first set it comes across. The content of each file is:-

- SCx0.WAV -> SCx9.WAV are the digits 0 to 9.
- SCx10.WAV is the word "minus"
- SCx11.WAV is the "ding" between numbers.

Obtaining the others

All the sets of samples are supplied with the licensed version, or you can download them from our Internet site at <http://www.smartcode.com> or from our support forum on CompuServe, Section/Library 4 of the UKSHARE forum.

Ordering



Select the "Order Form" button on the reminder screen or from the main screen for phone numbers and addresses.

You can purchase your full copy of SmartChecker by Phone, Fax, Mail or E-Mail. If you have a CompuServe account you can also order via the SWREG service.

Printing an Order Form

You can access an order form if you wish to register by Fax, Mail or E-Mail by pressing the 'Order Form' button on the reminder screen or the main screen. The order form shows the current registration fees and addresses and phone numbers.

Multiple Copy Licences

Ordering a single copy of SmartChecker allows you to use it on a single PC, and to make back-up copies for security purposes. It does not permit installation on more than 1 PC at the same time, or use on multiple work stations connected to a network.

However, we do offer extremely attractive discounts for multiple-copy licences, allowing you to make SmartChecker an integral part of your network, site or corporation. Please contact us for details.

Upgrade Policy and Getting Support



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Upgrade Policy

The code (.EXE file) for the registered and unregistered versions of the program are identical, and it is the presence of a file SMTCHK1X.DLL that is supplied with the registered version that causes the program to behave in a registered fashion. The presence of the DLL will also cause any further versions of SmartChecker that still bear the 1.x release number to behave as registered versions, wherever you obtain them from. Versions that bear the 1.x release number will generally be for minor enhancements and bug-fixes. Any release containing major new functionality will bear the release number 2.x, and an upgrade fee will probably be chargeable.

We will make new versions of SmartChecker available via the usual sources, on-line on services such as CompuServe, CIX and the Internet and via disk vendors, cover disks and CD's.

The prime locations for new releases are our support section on CompuServe, section 4 of the UKSHARE forum (the latest versions of all our products are available in Library 4), and at <http://www.smartcode.com> and <ftp://ftp.smartcode.com> on the Internet.

If you do acquire a newer version of SmartChecker simply ensure that the SMTCHK1X.DLL file you got when you registered is either in the directory that the SmartChecker program is in, or is in your WINDOWS directory.

Getting Support

For support, please contact the agent you purchased the program from (you can obtain contact information by selecting the "Order Form" item from the "Help" menu).

Alternatively you can ask in our support areas on various On-line Services:-

[On CompuServe - GO UKSHARE section 4.](#)

[On the Internet - via the World Wide Web at http://www.smartcode.com](http://www.smartcode.com)

[On CIX - join the "oakley" conference.](#)

But before you reach for the phone, please make sure you have looked through this Help File first. If you have a question that this Help File doesn't answer, or are reporting what appears to be a bug then we will be pleased to hear from you. But if it is a question that is answered in this Help file then all we will do is point you to the relevant section, and you will just get an answer a little bit slower. This is not meant to be awkward, but we try to keep our costs down to allow us to produce this high quality software at value-for-money prices, and answering support calls is an expensive undertaking. After all, some of the major software companies either charge for support or provide it on premium-price phone numbers. We don't want to have to do that.

This program is authored by:-

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Order Form - SmartChecker R1



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You can print this order form by using the "Print Topic" option from the "File" menu.

You will receive:-

- A licensed copy of the latest version of Release 1 of SmartChecker, without the reminder screens. Whilst we always try to ship as quickly as we can, by Air Mail if outside the UK, please allow 21 days for delivery.
- Shareware versions of some of our other software, including SmartCat Plus - the premier Windows File Cataloger, Smart Address - a very sophisticated Address Management package which is the ideal accompaniment to Smart 'n Sticky, SmartSum - a sophisticated Windows emulation of a Printing Calculator which can actually speak the numbers as you say them, plus whatever else we have that will fit on the disk.

We can accept your order by mail, E-mail, Fax or Phone. You can also register single copies via the Compuserve SWREG service (GO SWREG). Unless otherwise requested we ship a 3.5" disk.

We also offer considerable discounts for multi-copy licences for use across networks, across sites or across corporations. Please contact us for details on +44 (0)1270 759739.

Send your order to:-

Oakley Data Services,
3 Oakley Close,
Sandbach,
Cheshire CW11 9RQ,
England.

Please send me ___ registered copy(s) of SmartChecker.

Price :- £14.69 Pounds Sterling.

(In the EEC this is made up of 12.50 Pounds, plus VAT @17.5%, no charge for shipping. In the rest of the world this is made up of 12.50 Pounds, plus 2.19 Pounds Air-Mail Shipping + Handling).

(As of January 1995 the exchange rate was approximately 1.55 U.S. Dollars to 1.0 Pound Sterling. When we charge your credit card the card company will convert the cost to your local currency at the rate then prevailing and the sum will appear on your bill in your local currency.)

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I enclose a cheque / wish to pay by MasterCard / Visa / Amex (delete as applicable)

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Please send the registered version to:-

Name:

Address:

Post/Zip Code:

Day Time Tel. No.

You can also contact us by:-

Phone: +44 (0)1270 759739; FAX: +44 (0)1270 765272; CompuServe: 74774,1347
Internet: 74774.1347@compuserve.com , or via the World-Wide-Web at <http://www.smartcode.com> ,
or via Section 4 of the UKSHARE forum on CompuServe.

It would also help us if you could tell us where you got SmartChecker from:-

And any suggestions you have for enhancements:-

Order Form - SmartChecker R1



Call 801 295-1890

Fax 801 299-1781

You can print this order form by using the "Print Topic" option from the "File" menu.

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Send your order to:-

Insight Software Solutions

P.O. Box 354,

Bountiful, UT 84011-0354

Or Call 801 295-1890

Or Fax 801 299-1781

Or CompuServe: 71672,3464

Please send me __ licensed copy(s) of SmartChecker R1.

Price Per Copy:-

Price	\$19.95
Utah Residents add Sales Tax	\$ 1.22
Shipping by First Class Mail	\$ 3.00
--- or ---	
Priority or Int'l shipping	\$ 5.00
-----	-----
Total	\$
-----	-----

All Prices are in US Dollars.

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Please send the registered version to:-

Name:

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Telephone Number.

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And any suggestions you have for enhancements:-

