

# ARTL — Technical Requirements

## 1. Hardware and Operating Systems

A standard office grade PC which has the capacity to run an internet browser and the software referred to herein should be suitable for use with ARTL.

The ARTL system does not have any significant requirements for disc space on the computer.

A screen with a minimum resolution of 800 x 600 is required.

It is recommended that any computer used to access ARTL is protected by effective anti-virus software and is properly maintained with all of the latest security software updates.

The ARTL system has been specifically tested with Windows XP, Windows Vista, and Windows 7.

## 2. Internet Browsers

Our eServices have been developed using standards set down by the [World Wide Web Consortium](#) (W3C). These include:

- xHTML 1.0
- CSS2
- ECMAScript (standardised Javascript)
- WCAG AA compliance (aspirational, where specific technology allows)

Any browser that supports these standards should perform well with our eServices.

We have specifically tested the main features of ARTL using the following browsers:

- Microsoft Internet Explorer versions 6 and 7 (also version 8 for enrolment purposes)
- Mozilla Firefox version 2.0 (also versions 3.5.7 and 3.6 for enrolment purposes)

As our testing continues the list of browsers will expand.

ARTL and our other eServices products are accessed over a secure internet protocol (https) and can be safely opened on your computer internet browser.

## 3. Digital signatures

The security of the ARTL system, and the validity of the Land Register transactions, is based around the use of a Public Key Infrastructure and digital signatures. Further information about the Registers of Scotland Public Key Infrastructure and the legal use of the digital signatures can be found at <http://www.ros.gov.uk/artl/legal.html>.

The creation and use of digital signatures within ARTL involves the use of a smartcard which will be supplied free of charge by Registers of Scotland.

#### **4. Smartcard Readers**

ARTL users, who need the capability to sign digital deeds, approve applications or submit applications will require a smartcard reader.

Users who are part of a network and/or domain will need to make sure the USB ports on their individual computers are read and write enabled for a smartcard reader.

The smartcard reader recommended and sourced by the Law Society is a Gemplus reader (GemPC-Twin) provided by Trustis Ltd, the company that supplies smartcards to Registers of Scotland.

The benefit of purchasing the Law Society product is that it has been tested with ARTL and the Registers of Scotland smartcards, will be delivered with ARTL-specific installation and User instructions together with troubleshooting FAQs, Web links and telephone Helpline numbers.

The Gemplus smartcard readers can be ordered from <https://cardreader.trustis.com/>

#### **5. Gemalto Software**

To enable the use of the digital signatures and smartcard readers you need to install Gemalto (previously Gemplus) software.

The license to use this software is obtained as part of the provision of the smartcards by Registers of Scotland and will be made available to you during the initial ARTL sign-up.

#### **6. Adobe Reader**

ARTL displays digital documents in portable document format (PDF) therefore a minimum version of Adobe Reader 8.1 is required.

A free download of Adobe Reader is available from <http://get.adobe.com/uk/reader/>

## Adobe Reader Configuration

Once the Adobe reader software is installed it should be set up to 'Display PDF in browser'. Please follow the instructions below:

- Open Adobe Reader
- Choose **Edit**, then **Preferences** from the menu choices
- Choose **Internet** category
- Ensure 'Display PDF in browser' tick box has been ticked, then click OK button

Click on 'Close' button to exit Adobe Reader.

## 7. General Information

When a digital document is digitally signed in ARTL verification is made with our servers. To enable successful verification please ensure that the date, time and regional settings on your computer are accurate.

## 8. Known Issues

### Application Conflict

Registers of Scotland are aware that there is a current conflict when attempting to install the Gemplus Card Reader software on a PC that already has the BACSTel software installed. Further investigation of this issue is being undertaken and as a workaround the recommendation is to uninstall either the BACSTel software or GemPlus Card Reader software and install onto another separate computer.

## 9. Help and Support

Further help and support can be provided by the dedicated eServices Support Team at Registers of Scotland as follows:

Email: [eservices@ros.gov.uk](mailto:eservices@ros.gov.uk)

Telephone: 0845 607 0160

Fax: 0131 225 8498