



## VNC Mobile Solution for Developers

### Product Information: Overview

VNC – the remote control software used by millions, is now available for mobile platforms. It enables developers of both desktop and mobile applications to integrate VNC remote control of mobile devices into their products. With the VNC Server installed on a mobile device, the device can be viewed and controlled remotely by the VNC Viewer application embedded into the developer's own desktop tool or application.

VNC Mobile Solution can be used by developers to enhance a wide range of applications with VNC remote control including mobile device management, testing and support tools. It is packaged as a Software Development Kit (SDK) for seamless embedding into the developer's own software, with the look-and-feel of the parent application.

VNC Mobile Solution is highly secure, incorporating authentication and encryption options. A gateway application means that VNC Mobile Solution can be used even by VNC Viewers behind a corporate firewall.

#### Applications

- Device management
- Deployment
- Testing
- Monitoring
- Training
- Help-desk support

#### Device Platforms

- Windows Mobile
- Symbian
- Blackberry
- Mobile Linux
- Android
- iPhone

## VNC Mobile Solution

VNC Mobile Solution enables developers to incorporate the remote control of virtually any mobile device from any computer, for application development and test; deployment and monitoring; and training and helpdesk functions. Both the VNC Server and the VNC Viewer can be integrated into existing device management applications or deployed as a standalone customisable application.

### VNC MOBILE SOLUTION FAMILY

VNC Server SDK  
VNC Viewer SDK  
RFB Protocol  
VNC Gateway

### DEPLOYMENT OPTIONS

Embedded into existing application  
Standalone application

### FULL REMOTE CONTROL

Device screen displayed on PC  
Device input by keyboard  
Graphical device skin for mouse input  
Supports touch and non-touch screens  
File transfer and text chatting facility

### CHOICE OF RUNNING MODES

Always on: server listens for viewer  
Session: started manually for limited period

### CUSTOMISABLE

Configure for consistent look and feel  
RFB extension enables new message types

### SECURITY

Closed system for security  
Authentication options  
Encryption with RA2  
Filtering by IP address  
User accept for connections

## VNC Server SDK

The VNC Server SDK enables developers to create small, efficient VNC Servers running on mobile devices, standalone or embedded into their existing device software.

## VNC Viewer SDK

The VNC Viewer SDK enables developers to create VNC Viewer applications to access and control the mobile device running the VNC Server, standalone or embedded into their existing desktop software.

## RFB Protocol

The RFB v4 protocol means that new vendor-specific message types can be added for proprietary applications. The protocol is highly efficient, transmitting device screen updates only when they occur, transmitting only the changed areas of the screen and using compression techniques to reduce the data transmitted.

## VNC Gateway

The VNC Gateway manages remote control between the VNC Viewer and VNC Server on behalf of a parent application where a direct connection cannot be made, such as behind a corporate firewall.

## Porting

VNC Mobile Solution has been designed to be small, efficient and highly portable. The RealVNC Professional Services team can deliver ports of VNC Mobile Solution to new devices and operating systems.

## Server platforms

The VNC Mobile Solution Server can be deployed on virtually any mobile device:

- **Windows Mobile: 5.0, 6.0, 6.1**
- **Symbian: S60 3rd Edition and UIQ**
- **Blackberry: OS v4.3 and later**
- **Mobile Linux**
- **Android**
- **iPhone**
- **Featurephones**

## Viewer platforms

The VNC Mobile Solution Viewer application can be used by virtually any machine:

- **Windows Native low-level C API or .NET 2.0 Windows Forms component**
- **Linux .NET 2.0 Windows Forms component supported via Mono 2**
- **Java-applet for web-based management applications**

## Security

Authentication can be made mandatory, with VNC Viewers having to authenticate themselves to the VNC Server, directly or via a parent application. Communication between the VNC Server and the VNC Viewer can be encrypted to prevent eavesdropping, using the new RA2 secure session protocol. The VNC Server can filter incoming connection attempts by IP address. Additionally, the mobile device user can be prompted to accept the connection.

## About RealVNC

RealVNC was founded in 2002 by the original developers of VNC to promote, enhance and commercialise VNC. With over 100 million software downloads, VNC is a de facto standard for remote control. VNC has been used widely in hundreds of different products and applications, from helpdesks to virtualisation. Many millions of licenses to RealVNC's commercial products have been shipped to customers throughout the world, and across all sectors. Customers range from individuals to the world's largest organisations.



**RealVNC Limited**  
Betjeman House  
104 Hills Road  
Cambridge, CB2 1LQ, UK

T: +44 1223 310400  
F: +44 1223 310411  
E: [mobile@realvnc.com](mailto:mobile@realvnc.com)  
W: [www.realvnc.com/products/mobile/](http://www.realvnc.com/products/mobile/)