



## VNC<sup>®</sup> Mobile Solution for Device Testing

### Product Information: Overview

VNC Mobile Solution for Device Testing allows developers to seamlessly embed VNC remote access technology into testing applications, for easy connection to mobile devices that reduces testing time and costs.



Available as a Software Development Kit (SDK), VNC is ideal for both manual and automated testing tasks on mobile devices. The testing tool calls simple functions to inject keys, screen taps, etc. – and is sent back the resulting screen images. The images can be automatically checked and recorded for compliance and regression testing verification.

VNC Mobile Solution for Device Testing supports the widest range of mobile operating systems. The SDK has been designed for easy integration into virtually any testing tool (it provides Java, .NET, Mac, and native Windows and Linux “Viewer” SDKs). The solution works over USB and wireless links such as low-bandwidth 2G GPRS, as well as 3G, 4G and Wi-Fi. It is fully secure with end-to-end authentication and encryption. In addition, a uniform programming interface is provided for injecting key and touch screen events across all mobile platforms.



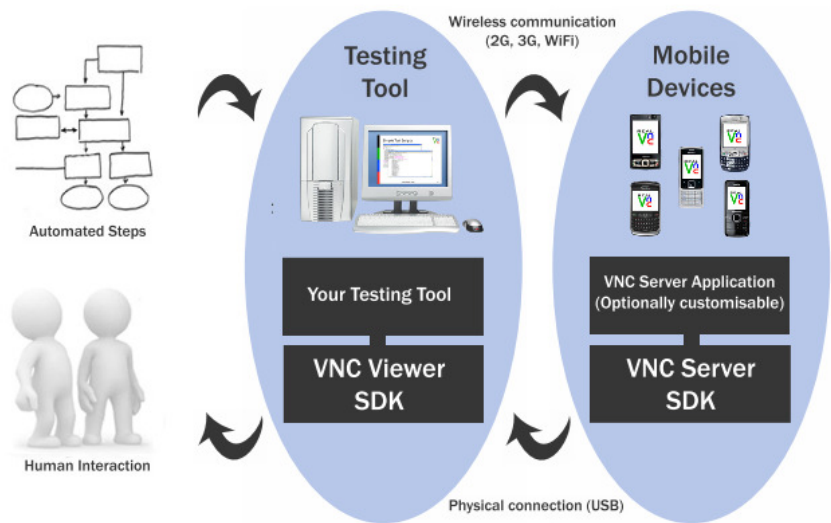
#### Viewer Platforms:

- Windows
- Linux
- Mac
- Java
- .Net

#### Device Platforms:

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

VNC Mobile Solution for Device Testing enables developers to integrate VNC remote access and control technology into existing testing tools for easy connection to mobile devices.



### VNC MOBILE SOLUTION FAMILY

VNC Server SDK  
VNC Viewer SDK  
RFB protocol  
VNC Data Relay Gateway

### DEPLOYMENT OPTIONS

Embedded into existing application  
Standalone application

### FULL REMOTE CONTROL

Device screen displayed in testing tool  
Device input by keyboard  
Graphical device skin for mouse input  
Supports touch and non-touch screens  
Clipboard, 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 (AES/RSA)  
Filtering by IP address  
User accept for connections

### Security & Connectivity

VNC Mobile Solution for Device Testing provides end-to-end industry standard AES encryption and authentication for secure connection.

For testing across the Internet and mobile networks, VNC Mobile Solution provides a "VNC Data Relay" to ensure problem-free connections even if there are multiple firewalls in the operators' network and at both ends of the connection.

VNC Mobile Solution for Device Testing can be used across a range of physical connectivity links: USB, Wi-Fi, 2G, GPRS, 3G, 4G and other bearers. VNC Mobile Solution contains "skins"- graphical, clickable images of mobile phone handsets. These skins enable test programmes to easily interact with all aspects of the phones hardware, such as device home keys, as well as the touch screen.

### Performance

RealVNC invented the VNC system, which uses the RFB protocol. VNC Mobile Solution for Device Testing uses the latest RFB v4 protocol, providing enhanced performance, security and the ability to implement vendor-specific protocol extensions.

Instead of sending the entire screen image, VNC Mobile Solution for Device Testing examines what areas of the screen have changed, compresses them, and sends them. This means there is no unnecessary data transfer minimizing the bandwidth usage resulting in an increased system performance.

### About RealVNC

RealVNC's software solutions are used by hundreds of millions of people in both desktop and mobile platforms for remote access and control. VNC® is used widely in hundreds of different applications, from helpdesks to virtualization. RealVNC's commercial products have been shipped to customers in all sectors throughout the world.

RealVNC also works with many OEM partners to license VNC technology for inclusion in their product or service and is the only organization able to offer a commercial license to embed VNC in third-party products and offerings.



**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/services/mobile.html](http://www.realvnc.com/services/mobile.html)