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# FinSpyMobile 4.51

## Release Notes



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**Release information**

Version	Date	Author	Remarks
1.0	2012-02-11	mjm	Initial version
1.1	2012-02-15	lh	Updated and finalized for the v4.00 release
1.2	2012.06.18	Lh	Updated for the v4.10 release
1.3	2012.09.13	Lh	Update for the v4.20 release
1.4	2012.10.24	Lh	Update for the 4.20 hot fix
1.5	2013.02.26	Lh	Update for the 4.30 release
1.6	2013.02.28	Lh	Review and update the 4.30 release notes.
1.7	2013.04.24	Lh	FinSpy 4.31 Hot Fix Release
1.8	2013.09.02	Lh	FinSpy v4.40 Release
1.9	2014.04.14	Lh	FinSpy v4.51 Release



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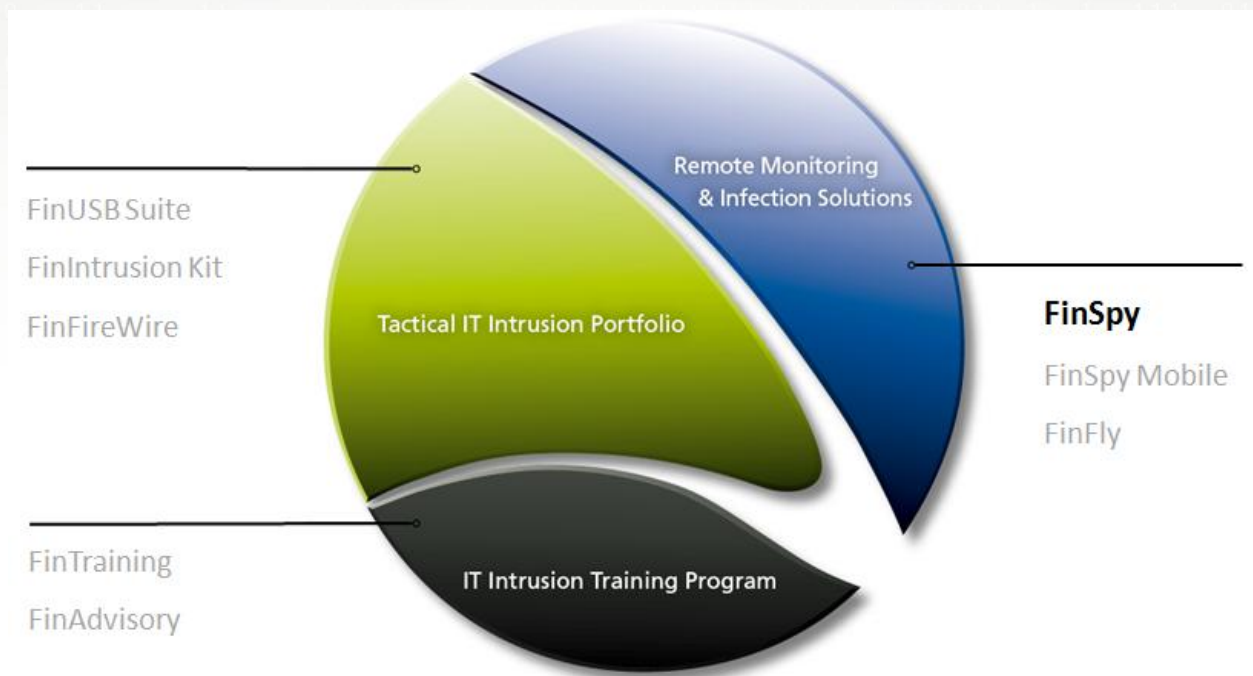


## 1 OVERVIEW

FinSpy Mobile is designed to help Law Enforcement and Intelligence Agencies to remotely monitor mobile phones and tablet devices and get full access to:







- **Communication:** Calls, SMS, MMS and more
- **Stored Data:** Address Book from Phone and SIM
- **Surveillance Devices:** Make silent Calls to remotely listen to the Microphone

**Location:** Trace device and monitor locations





## 2 SUPPORTED PLATFORMS

	Platform	Supported Version	Latest Version on the Market
	Android	2.x.x, 3.x.x, 4.0.x, 4.1.x, 4.2.x, 4.4.x	4.4.x
	Blackberry	5.x, 6.x, 7.x	10.1
	iOS Untethered Jailbreak required	4.3.x, 5.x, 6.x, 7.0.x	7.1
	Symbian	Symbian ^3, Anna, Belle, S60 v5.x v3.x	Symbian ^3 Anna, Belle
	Windows Mobile	6.1, 6.5	6.5
	Windows Phone	Not Supported Yet	8



### 3 CHANGELOG

<b>Version 4.51</b>		
<b>Component</b>	<b>Change</b>	<b>Description</b>
<b>FinSpy Mobile iOS Target</b>	<b>Target Generation/Installation (enhancement)</b>	Support for iOS 7.0.x
<b>FinSpy Mobile iOS Target</b>	<b>WhatsApp Module (bug fix)</b>	WhatsApp changed the encryption technique of the database. The module was changed appropriately to support the new encryption.
<b>FinSpy Mobile Android Platform</b>	<b>Target Generation/Installation (enhancement)</b>	Support for Android 4.4.x
<b>FinSpy Mobile Android Platform</b>	<b>Microphone Module (new data collection module)</b>	A new live session data collection module which records and sends audio frames from the microphone to the Agent software. At the end of the live session a recording is generated and stored in the Master database for later access.
<b>FinSpy Mobile Android Target</b>	<b>WhatsApp Module (bug fix)</b>	WhatsApp changed the encryption technique of the database. The module was changed appropriately to support the new encryption.



## 4 LIMITATIONS

This chapter covers current known limitations within the FinSpy Mobile product.

### 4.1 Permanent Limitations

These are technical limitations of the FinSpy Mobile system that cannot be resolved.

Component	Operating System	Description
<b>UMTS Modem</b>	All	<p>The FinSpy Master Call Recording server only functions with the UMTS modem that is supplied during the delivery.</p> <p>If the provider network blocks the UMTS Modem from connecting and only allows own devices, they have to have one of the following chipsets:</p> <ul style="list-style-type: none"> <li>▪ HUAWEI E169</li> </ul> <p>If neither is possible, the following features will not be functional:</p> <ul style="list-style-type: none"> <li>▪ Spy Call</li> <li>▪ Display of Phone Number</li> <li>▪ Emergency Configuration</li> <li>▪ Live Tracking</li> </ul> <p>and the following features will not be functional if there is wifi or 3G connection:</p> <ul style="list-style-type: none"> <li>▪ Phone Call Interception</li> </ul>
<b>Provider Information</b>	All	<p>It cannot be guaranteed that the Provider name is correctly displayed as the Provider database does not contain 100% of all providers world-wide.</p>
<b>Phone Model</b>	All	<p>It cannot be guaranteed that the Phone Model is correctly displayed as the Phone Model database does not contain 100% of all phone models on the market.</p>
<b>Live Tracking</b>	All	<p>It cannot be guaranteed that the exact GPS position of the device can be shown at all times as GPS might not be available and other Location sources like position of the base station will have to be used.</p>

		<p>When the Base-Station location has to be used, the distance to the real Targets position can be several kilometers.</p>
<b>Battery Power</b>	All	<p>Depending on the configuration, heart-beat intervals and live sessions, the battery of the phones will empty faster than usually.</p> <p>This is usually an insignificant percentage unless lots of Call Interception and Live Tracking is done.</p>
<b>Feature Limitations</b>	All	<p>We cannot guarantee that all features will work on all phone models and operating systems versions at all times as there are often significant modifications by vendor and providers.</p>
<b>Phone Call Interception</b>	All	<p>Live Phone Call recordings can only be done when the Provider allows conference calls for the Targets device.</p>
<b>Spy Call &amp; Phone Call Interception</b>	All	<p>Due to different mobile platform versions, hardware configuration of the handsets, customization of the underlying systems operated by providers and the services provided by the mobile operators, the Spy Call and Phone Call Interception also known as Voice Features might not work reliably in all the possible combinations of the variables described above.</p>
<b>Connectivity</b>	All	<p>When the provider does not allow direct communication for installed applications and an APN has to be configured this might prevent FinSpy Mobile targets from communicating with the FinSpy Master server unless the APN is configured.</p> <p>A database exists with common APN configurations for various providers but this database does not cover 100% of all providers world-wide.</p>



		When the APN is not inside the database, it needs to be manually configured in the Target device to ensure the device can communicate with the server.
<b>World Maps</b>	All	It cannot be guarantee that the Location Maps cover 100% of the world and show all areas including new constructions and such correctly.
<b>Covert Installation</b>	All	Typically on all mobile operating systems, the user needs to allow 1 or more pop-ups before a new application is installed.

## 4.2 Release Limitations

These limitations are related to the current version of FinSpy Mobile and will be addressed in future releases.

Operating System	Component	Description
All	<b>Target Software</b>	Full Anti-Virus/Anti-Spyware bypassing cannot be guaranteed due to regular changes in these products.
All	<b>Mobile File Access Module</b>	On 3G connections the Mobile File Access behaves unstable. The connection can be lost during the live session. The behavior is different from provider to provider.
Windows Mobile	<b>Target Installation</b>	The Target phone reboots after installation.
Windows Mobile	<b>Target Deployment</b>	WAP Push messages for remote installation are not supported.
Android	<b>Target Installation</b>	<b>For Android 2.x platforms</b> , after the installation of the Android target software is required a incoming/outgoing phone call or an

		incoming/outgoing SMS or the enabling/disabling of wifi/3g/Bluetooth to activate the target.
Android	<b>Target Installation</b>	For the <b>Android 3.x and 4.x platforms</b> , after the installation, an additional user interaction is required to launch the target software.
Android	<b>SMS Communication</b>	One of the Trojan communication channels is SMS. Due to the new security developments on Android 4.4.x the SMS sent by the master cannot be removed anymore and is visible in the incoming SMS' list.
Android	<b>Target Removal</b>	In the actual implementation is is not possible a complete auto removal of the target from a phone under surveillance. To completely remove the infection manual actions are required.
Android	<b>Address Book Module</b>	Custom fields in the address book are not recorded.
Android	<b>Spy Call Module</b>	The Spy Call Module is not supported on Android v2.3 and bigger.
Android	<b>Phone Call Interception Module</b>	Phone Call Interception Module is not supported under the Android Mobile Platform in the current version.
Android	<b>Target Installation</b>	The reinfection of an already infected Android target updates only the binaries. The configuration information of the existing Android infection is not overwritten with the configuration from the reinfection package.
Android	<b>Mobile Device Camera</b>	The Mobile Device Camera is supported only by 4.x Android Platforms. The feature is <b>not</b> supported on older versions of Android e.g. 2.x, 3.x.



iOS	<b>Target Installation</b>	The iOS target can be installed only under iOS jail broken devices.
iOS	<b>Phone Call Interception Module</b>	During the phone call interception if the phone processor is very busy there might be the possibility that a short ringing sound is produced.
iOS	<b>Phone Call Interception Module</b>	The Phone Call Interception is only possible if the Phone setting 'Call Waiting' is ON. If OFF, the conference call feature will not be active on the phone and as a consequence the Phone Call Interception will not be possible.
iOS	<b>Spy Call Module</b>	Spy call is possible only if the target phone is locked. If the user unlocks the phone, spy call is ended.
iOS	<b>Email Module</b>	The attachments can be collected and recorded only when the full email message is downloaded on the phone. By default the Mail application only downloads a small chunk of the email and the user has to manually download it.
iOS	<b>Mobile File Access Module</b>	The download/upload of large files is, in general, not recommended unless the device is connected to fast network (e.g. Wifi, 3G, LTE).
Blackberry	<b>Installation</b>	Upon installation a popup will be presented with all the rights the application needs. The user has to accept all the conditions to continue the FINSPY MOBILE Software installation
Blackberry	<b>Visibility</b>	When installed, the FinSpy Mobile Software will be visible in the installed applications list. When executed,

		will also be visible as a running process in the running processes list.
Blackberry	<b>Communication</b>	<p>The Blackberry FINSPY MOBILE Software is able to communication only using the HTTP protocol. The HTTP Tunneling feature has to be enabled on the Master and the port 80 should be opened on the Relays.</p> <p>If the time-based heartbeat is enabled, the heartbeat interval should not be set to less than 10 minutes especially on the old devices. In case of high heartbeat frequency the device might freeze and the heartbeats will not reach master with the desired frequency.</p>
Blackberry	<b>Corrupted SMS Recordings</b>	<p>The software might fail to interpret special character of any of the following languages correctly: Spanish language (Latin script), Portuguese language (Latin script), Turkish language (Latin script), Urdu language (Arabic and basic Latin scripts), Hindi language (Devenagari and basic Latin scripts), Bengali and Assamese languages (Bengali and basic Latin scripts), Punjabi language (Gurmukhī and basic Latin scripts), Gujarati language (Gujarati and basic Latin scripts), Oriya language (Oriya and basic Latin scripts), Tamil language (Tamil and basic Latin scripts), Telugu language (Telugu and basic Latin scripts), Kannada language (Kannada and basic Latin scripts) and Malayalam language (Malayalam and basic Latin scripts)</p> <p>Only the SMS' sent/received after the infection will be recorded.</p>
Blackberry	<b>Address Book</b>	Images stored with address book entries will not be recorded due to a critical problem in the vendor API.
BlackBerry	<b>Blackberry Messenger</b>	To record the Blackberry Messenger messages, after the infection the FINSPY MOBILE Software has to make some modification to the settings of the phone. These

		<p>modifications are done with the first opportunity when the proper conditions are met; hence there is no deterministic point of time when the recordings start.</p> <p>Group chats are currently not supported.</p> <p>File transfers will only be reported but not recorded.</p>
Blackberry	<b>Phone Call Interception Module</b>	<p>During the phone call interception if the phone processor is very busy there might be the possibility that a short ringing sound is produced.</p>
Blackberry	<b>Spy Call Module</b>	<p>During the spy call live session if the phone processor is very busy there might be the possibility that a short ringing sound is produced.</p>
Blackberry	<b>Mobile Email Messages Module</b>	<p>The email attachments are not recorded.</p> <p>If no Email account configured during infection the phone needs to be restarted after the Email account was set up</p>
Blackberry	<b>Mobile Screen Capture</b>	<p>Screen captures can only be made with a delay of at least 90 seconds.</p> <p>When closing a screen capture session make sure to close it by closing the screen capture session window only. Do not use the stop button in the middle of the window.</p>
Blackberry	<b>Mobile File Access</b>	<p>Access to the blackberries file system is slow due to the underlying HTTP Protocol. Responses can unfortunately take up to 3 minutes.</p> <p>Any file uploaded to the device's internal memory must not exceed 2.86MB.</p> <p>The download/upload of large files is, in general, not recommended unless the device is connected to fast network (e.g. Wifi, 3G, LTE).</p> <p>When closing a screen capture session make sure to</p>



		close it by closing the screen capture session window only. Do not use the stop button in the middle of the window.
Symbian	<b>Target Installation</b>	Due to the fact that the 3.0 and 3.1 Symbian versions lack of some required services which are present in newer version of the Symbian systems a <b>separate</b> Trojan installer is generated for these old system versions.
Symbian	<b>Email Module</b>	Symbian S60 5.2 5.3 cannot generate email recordings.
Symbian	<b>Target Installation</b>	Symbian Trojan version will be displayed as 4.50 and not 4.51.



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