GRADIANT SIGNATURE

GRADIANT SIGNATURE integrates latest GRADIANT's dynamic handwritten signature recognition technology. GRADIANT SIGNATURE comprises a set of libraries ready for integration in mobile and server platforms. It is intended for biometric system integrators as well as application developers. GRADIANT SIGNATURE combines signal processing, pattern recognition and machine learning techniques, enabling fully automatic signature recognition in smartphones, tablets and signature pads.

HIGHLIGHTS

— Award-winning proprietary dynamic signature recognition technology: excellent verification rates.
— Configurable enrollment and security levels.
— Detection of easy-to-forge signatures and template coherence.
— Ideal for documental security and transactions, including financial services, insurance or healthcare.
— SDK available for easy and flexible integration in custom applications.
— Multiplatform: Windows, Linux, Android and iOS, and for client/server architectures.
— Increased security, convenience and availability can be achieved by the easy combination of compatible GRADIANT biometric modalities such as face or speaker recognition.

TECHNICAL DETAILS

GRADIANT SIGNATURE integrates several modules in order to provide a complete mobile authentication solution:

ACQUISITION MODULES

Acquisition and control modules for mobile devices allowing fast integration and development of handwritten signature authentication enabled applications.

SIGNATURE SECURITY ANALYSIS MODULE

Analysis of single signature complexity to avoid easy-to-forge signatures.

Analysis of template (multiple signatures) coherence.

SIGNATURE TEMPLATE ACQUISITION MODULE

Handwritten signature template creation from one or several signatures.

SIGNATURE VERIFICATION MODULE

Biometric template matching, allowing an easy development of verification and identification applications.

MULTIPLE SIGNATURE PLATFORMS

SDK available for both mobile devices (smartphone and tablet) and signature pads, allowing multiple signature use cases and scenarios: banking, documental security, etc.

TEMPLATE PROTECTION MODULE

Template protection for enhanced security and privacy protection in pen tablets through advanced cryptosystem technology.*

*To be released.

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PLATFORMS

iOS

Minimum OS	OS device (iPhone, iPad) with iOS 8 or above
Minimum hardware	Apple A6 processor or higher (iPhone 5 or above)
Programming language	Objective C API

ANDROID CLIENT

Minimum OS	Smartphone or tablet with Android 4.0 OS or above (API 14)
Minimum hardware	1.5 GHz dual core processor or higher Reference devices: mid-range Android devices (e.g. Google's Nexus 5 or higher)
Programming language	Java API

SIGNATURE PAD CLIENT

Signature tablet	Wacom STU-500 Wacom Intuos 4S
Operating System	Windows (with .NET Framework 4.5)
Programming language	C / C++ API .NET API

PC / SERVER

Minimum OS	Linux (32 bit and 64 bit)
Programming language	C++ API Java API

PERFORMANCE

Template creation time (5 signatures)	~30s on 1 Intel E5300@2.60GHz core
Verification time	<1s on 1 Intel E5300@2.60GHz core