

The Whitenoise Guide



These materials have been assembled so that Consultancy Professional Services Providers can use one resource to rapidly find any information you or your clients need on the following subjects:

- Whitenoise technologies
- Dynamic Distributed Key Infrastructures
- Dynamic Identity Verification and Authentication
- A virtually manufactured and virtually distributed platform

It is recommended that the guide is available to all Consultants so that the science and sales process information will be consistent globally. By providing this information on a cloud application, we will also be able to provide your consultants with 7/24 support on any sales/client calls. This approach will also allow your consultants to post case studies for the security challenges addressed and we can keep expanding the library and generalizing the solutions.

How to use this guide

Any important science like cryptography, security, cloud architecture etc. requires study.

A pilot will not fly a plane without studying aeronautics.

A brain surgeon will not do surgery without studying medicine.

An astronaut will not go to the moon without studying ...yes...rocket science!

In order for Consultancy Services to best serve you and solve your security and cloud woes in any context, we have compiled this material so that you can rapidly find what is pertinent to your specific needs. The more study you and your team are able to do beforehand, the more prepared you will be to make your global sales training most productive.

It is designed so that you can rapidly share information with your team so that the appropriate information can be found by different departments from the same document. That way, as we delegate roles for our projects, implementations and solutions not everyone needs to be on the same page – we need to be in the same book.

This document breaks down Whitenoise technologies resources into broad categories of:

- The core science
- Technology information i.e. performance and security analysis etc.
- Presentations – by topic
- Downloads and testable utilities for yourselves and your clients
- Demonstrations that can be accessed anywhere for sharing with colleagues and clients from our YouTube Channel
- Marketing Information
- Product descriptions
- Staffing and professional service references and contacts

Used properly, this guide will expedite communications and keep them accurate.

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The Pitch

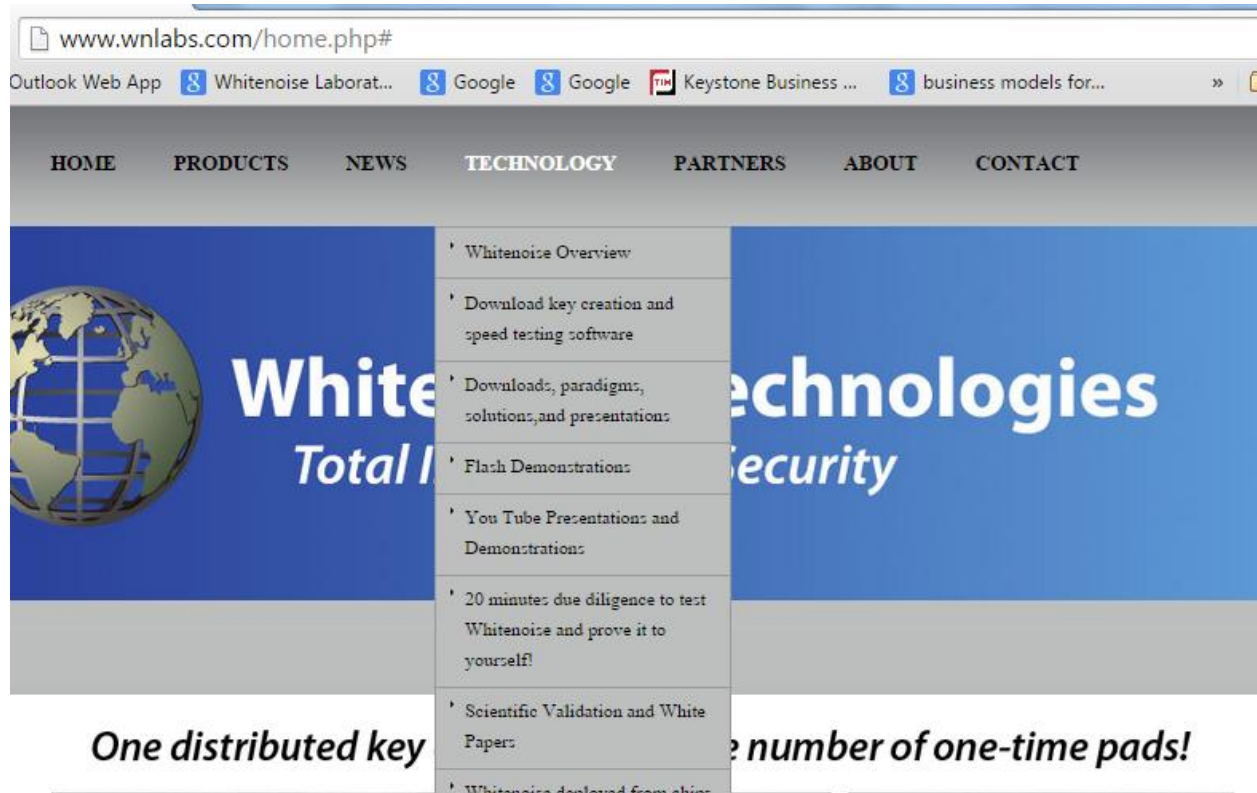
http://www.wnlabs.com/downloads/Comparison_of_handshakes.pdf

Home page logos and links

Go to www.wnlabs.com and click on any of the logos to go to the related service or site.

www.wnlabs.com/home.php > Technology

This tab will give you access to all scientific information, presentations, demonstrations and verifications.



Executive Overview

http://www.wnlabs.com/papers/Whitenoise_Executive_Overview.pdf

Demo yourself

http://www.wnlabs.com/technology/Self_Demo.php

Presentations – all on one page

<http://www.wnlabs.com/technology/presentations.php>

PRESENTATIONS

Single Key Banking and mobile payments

[Secure Credit Card Processing Single Key Banking](#)

Wiki Leaks

[Stop WikiLeaks full description](#)

IFSEC Raytheon Future of Security

[DIVA IFSEC Future of Security Grand Finalist - Raytheon sponsor](#)

AT&T Certification

[AT&T Certifies Secure File Interchange 2](#)

Global Security Challenge 2010 Grand Finalist

[WNL a 2010 Grand Finalist Global Security Challenge](#)

United Nations ITU Presentation

[United Nations April 2010 standards presentation: Harmonizing identity and privacy](#)

Whitenoise downloadable key creation and speed tester

[WN Speed and Randomness Tester Academic use only](#)

European Telecommunications Standards Institute Presentation Eistein Agora

[European Technical Standards Presentation Workshop Jan 2012 Sophia Antipolis, France](#)

Nokia Innovative Ideas Challenge

[Nokia Innovative Ideas Challenge](#)

Booz Allen Hamilton Technical Advisory Committee

[Technical Advisory Committee questions Washington DC](#)

United Nations OECP Vision

[Whitenoise Vision for international harmonization of identity and privacy](#)

US Military & Government Operational Requirements Document

[National Operational Requirements Document](#)

Government gives up on PKI

[Government rescinds policy requiring PKI for secure services](#)

BCIT Smart Grid Sponsorship

[Whitenoise is a sponsor for the BCIT smart grid](#)

First US National Leap Year Summit Invitee

[US National Leap Year Summit 2009](#)

White House Office of Science and Technology Policy Invitation

[White House Invites Whitenoise to Cyber Security Leap Year Summit](#)

Protecting Critical Infrastructure

[In Denial:Code Red 2 nd Annual Critical Infrastructure Conference](#)

A single key for a single life

[Government Mandated Identity Management Keys a protocol](#)

AT&T Certification

[AT&T Invites Whitenoise Laboratories \(Canada\) Inc to Join](#)

Stop Identity Theft and Secure Networks

[Sierra Wireless Stops Identity Theft and Secures Networks](#)

Stop Media Theft (DRM) and Secure Cargo at the docks

[Sierra Wireless Stops Media Theft and Secures Cargo](#)

How does 3-byte substitution work?

[Paper on Whitenoise 3 Byte Substitution \(PDF\)](#)

How do Dynamic Distributed Key Infrastructures work?

[Dynamic Distributed Key Infrastructures](#)

A Scalable Identity Management Architecture

[A Scalable Identity Management and Authentication Architecture](#)

The Failure of Critical Infrastructures

[In Denial: Code Red Digital Winter - The Failure of Critical Infrastructures](#)

Single Key Banking

[Stop Credit Card and Identity Theft](#)

How does Dynamic Identity Verification and Authentication (DIVA) work?

[Dynamic Identity Verification and Authorization](#)

How do I enroll legacy components onto a secure network?

[Bringing in Legacy Appliances into Secure Networks](#)

Demonstrations

Whitenoise YouTube Channel and public video demonstrations

<http://www.wnlabs.com/technology/YouTube.php>

Video demonstrations accessible any where any time

How is a Whitenoise key made?

<http://www.wnlabs.com/pdf/WhitenoiseAlgorithmVisualLook.pdf>

What are Whitenoise scientific achievements?

<http://www.wnlabs.com/technology/landmarks.php>

Executive Summary – C Coram General Dynamics UK

http://wnlabs.com/papers/Whitenoise_Overview_Short.pdf

Security Analysis

http://www.wnlabs.com/pdf/Wagner_Security_Analysis.pdf

Performance Analysis

http://www.wnlabs.com/downloads/UVIC_Performance_Analysis.pdf

Micro processors performance metrics

http://www.wnlabs.com/technology/WN_Chips.php

European Telecommunications Standards Institute presentation DIVA

<http://www.wnlabs.com/news/standards.php> ETSI

Products

Downloadable product comparison, demo and order console

<http://www.wnlabs.com/products/aboutConsole.php>

Secure File Interchange – Secure File Transfer

<http://www.wnlabs.com/products/sfi.php>

Secure Hard Disk Drive Storage and simple enterprise network

<http://www.wnlabs.com/products/harddrive.php>

Personal File Security – encrypt data on devices with removable key

<http://www.wnlabs.com/products/pcfile.php>

Email Attachment Encryptor –secure email sharing

<http://www.wnlabs.com/products/emailenc.php>

Project Key utility

<http://www.wnlabs.com/products/groupkeys.php>

Secure Session Manager (SSM) invoked at Single Sign On

<http://www.wnlabs.com/products/SecureSessionManager.php>

Iris Biometrics for mobile payments

<http://www.wnlabs.com/products/IrisRecognitionIdentityProofingLevel4standard.php>

Turn Biometrics into One-Time-Pad - Gartner

http://www.wnlabs.com/downloads/Gartner_Video.mp4

In Denial :Code Red – a look at the collapse of communications

<http://www.wnlabs.com/products/InDenialCodeRedDirect.php>

More Solutions – streaming, RFID etc.

<http://www.wnlabs.com/products/moreSolutions.php>

EVENTS NEWS CORPORATE VALIDATIONS

Nokia Global Demo Winner 2014 Colossal Data and Cloud competition

http://www.wnlabs.com/news/Nokia_Challenge_Demo_Winner.php

US First National Cyber Leap Year Summit

<http://www.wnlabs.com/news/leapForward.php>

United Nations International Telecommunications Union presentation

http://www.wnlabs.com/news/UN_ITU.php

Whitenoise \$100,000 Security Challenge – no winner

<http://www.wnlabs.com/news/challenge.php>

Whitenoise \$200K Challenge that Black Hat Would Not Take but DEFCON Did - No Winner!

<http://www.wnlabs.com/news/challengeDEFCON.php>

Global Security Challenge Grand Finalist UK

http://www.wnlabs.com/news/GSC_Grand_Finalist.php

IFSEC Raytheon Grand Finalist Future of Security

<http://www.wnlabs.com/news/ifsec.php>

AT&T Certified

<http://www.wnlabs.com/news/atnt.php>

PARTNERS

British Columbia Institute of Technology CST Advisory Board

<http://www.wnlabs.com/partners/bcit.php>

British Columbia Institute of Technology Smart Grid sponsorship

<http://www.bcit.ca/microgrid/sponsors.shtml>

Wavefront Canadian Federal Government Wireless Accelerator

<http://www.wnlabs.com/partners/Wavefront.php>

AT&T Development Partner

<http://www.wnlabs.com/partners/atnt.php>

Smart Sensors iris biometrics UK

<http://www.smartsensors.co.uk>

Canadian Standards Mirror Group

http://www.wnlabs.com/partners/ISO_JTC.php

National Research Council of Canada Funding- side channel

http://www.wnlabs.com/about/UVIC_gets_NSERC.php

Whitenoise Executive

<http://www.wnlabs.com/about/executive.php>

Whitenoise Legal and Accounting Advisors

<http://www.wnlabs.com/about/legalAdvisors.php>

Whitenoise technical advisory

<http://www.wnlabs.com/about/advisors.php>

Licensing national security level technologies

<http://www.wnlabs.com/contact/licensing2.php>

Permitting national security level technologies

<http://www.wnlabs.com/contact/permitting2.php>

Marketing

Total Cost of Ownership

Total Cost of Ownership Comparison

Telecom channel service offerings

Telecom/Enterprise Service Offering Secure File Interchange

Subsequent Telecom/Enterprise service offerings

The Value Chain for Telecoms

[The Value Chain for the Telecom Industry](#)

Secure File Interchange Total Cost of Ownership

[Secure File Interchange Total Cost of Ownership](#)

Public Key Infrastructures comparisons

[PKI Research Materials](#)

Critical Insights and Differentiators of DIVA – Csinger UBC and RSA

[Critical Insights and Differentiators of Whitenoise Csinger](#)

Downloads and Trial Software

Personal Security Suite

[Security Suite](#)

Personal File Encryptor

[PC File Encryptor](#)

Email Attachment encrypter

[Encrypted E-Mail Attachment Utility](#)

[Download Free E-Mail Attachment Decryptor](#)

Secure Storage and Secure Streaming

[Hard Disk Drive Encryptor and Streaming Demo](#) - zip

Download the BCIT Whitenoise encrypted media file for a demo

[BCIT_VIDEO_Encrypted with Whitenoise](#)

Secure File Interchange – secure file sharing presentation

[Secure File Interchange 2 with AES](#)- pps

[Secure File Interchange Narrated Demo](#) - pps

[Secure File Interchange Administrator functions](#) - pdf

Computer File Security presentation

[Computer File Security Narrated Demo](#) - pps

Whitenoise Key Creation and Speed testing downloadable utility for evaluation

[WN Speed and Randomness Tester](#)

Patents

Whitenoise and DIVA and DDKI technologies ARE PATENTED globally in countries with two thirds of the world's population, economic activity, and manufacturing including:

- Canada
- United States of America
- India

- China
- South Korea
- European Union (27 countries)
- United Kingdom
- Switzerland
- Australia
- Brazil etc. etc.

Patent applications

Patent applications are generally done so we can discuss topics with clients. The ideas are protected and then we evaluate when to introduce them into our patent portfolio and roadmap.

- [Brisson Balancing Security and Privacy](#)
- [Secure Mobile Payments and Funds transfer 1 Key Banking](#)

Topic Papers

Use Case Scenarios

This paper contains a direct performance comparison to RSA Spritz deployment in micro processors

[Whitenoise Use Case Scenarios](#)

Internet of Things

[Whitenoise and the Internet of Things](#)

Comparison of Handshakes

This paper is a comparison of Public Key (PKI) asymmetric network handshakes and Dynamic Distributed Key Infrastructure (DDKI) symmetric handshakes which highlight how vulnerable PKI handshakes are and how simplified DDKI handshakes are.

http://www.wnlabs.com/downloads/Comparison_of_handshakes.pdf

FIC France 2015

http://www.wnlabs.com/downloads/FIC_DIVA_posted.pdf

FIC Hot Topics i.e. stopping lone wolves

http://www.wnlabs.com/downloads/FIC_2015_Hot_Topics.pdf

Addendum and Case studies

Solutions by category and recommendations

How can I get faster downloads and uploads on any platform?

How can I secure mobile payments?

Moving forward as we provide solutions we will document them and then generalize them for easy consideration by problem and solutions for your clients.