



The Vulnerability
Marketplace

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News

PRESS RELEASE 09/09/2007
Finally a Marketplace Site for
Research

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zero@wslabi.com

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12 items found, displaying all items.

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Title	System	Offer type	Last bid	
WebPro local privilege escalation	Windows Server 2003	Bidding	0€ 0 bid(s)	info
MailEnable Stack Overflow	Windows 2000	Bidding	0€ 0 bid(s)	info
Gemall 38k Remote Vulnerability	Windows Server 2003	Bidding	0€ 0 bid(s)	info
WordPress 2.2.2 Vulnerability	Web application	Bidding	0€ 0 bid(s)	info
Bloggie 2.1.6 Remote Vulnerability	Web application	Bidding	0€ 0 bid(s)	info
Bloggie 2.1.6 Remote Vulnerability	Web application	Bidding	0€ 0 bid(s)	info
ElectroServer DoS	Linux	Bidding	0€ 0 bid(s)	info
Win server vulnerability	Windows XP	Bidding	0€ 0 bid(s)	info
Stack overflow #3	Windows XP	Bidding	0€ 0 bid(s)	info
Stack overflow #2	Windows XP	Bidding	0€ 0 bid(s)	info
Stack overflow #1	Windows XP	Bidding	0€ 0 bid(s)	info
Stack overflow	Linux	Bidding	0€ 0 bid(s)	info

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The art of continuous improvement of imperfect security



DEFINITION OF A MARKET

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From Wikipedia, the free encyclopedia

“A market is a social arrangement that allows buyers and sellers to discover information and carry out a voluntary exchange of goods or services. It is one of the two key institutions that organize trade, along with the right to own property. In everyday usage, the word "market" may refer to the location where goods are traded, sometimes known as a marketplace, or to a street market.

The function of a market requires, at a minimum, that both parties expect to become better off as a result of the transaction. Markets generally rely on price adjustments to provide information to parties engaging in a transaction, so that each may accurately gauge the subsequent change of their welfare.”



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THE PHILOSOPHY BEHIND

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ワビサビラビ

Wabi-sabi (in Japanese katakana ワビサビ) represents a comprehensive Japanese world view or aesthetic centred on the acceptance of transience. The phrase comes from the two words wabi and sabi. The aesthetic is sometimes described as one of beauty that is "imperfect, impermanent, and incomplete". It is a concept derived from the Buddhist assertion of the Three marks of existence — Anicca, or in Japanese, 無常 (mujo), impermanence.

Wabi-sabi nurtures all that is authentic by acknowledging three simple realities: nothing lasts, nothing is finished, and nothing is perfect."

In this view, Wabi-sabi is the perfect term to represent the implicit imperfection of the IT security, as well as the scope of our project, which is to contribute to its improvement. This goal is achieved by completely re-designing the traditional security research cycle, introducing for the first time ever a market-driven approach to correctly value the security researchers contributions.

Nothing lasts, but everything can always be improved in its life-cycle.



A BIT OF HISTORY...

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- Early 90s Legal threats, no disclosure
- 1993 - 2003 Full disclosure and still legal threats
- 2003 - 2007 Full disclosure, less legal threats
- 2002 -2007 Vulnerability purchasing projects
- 2007 WabiSabiLabi



CURRENT STATUS OF THE SECURITY MARKET



The security researcher's work is exploited for free due to:

- Ethical blackmailing
- Wrong set of laws
- Abused “de-facto” position
- Misconception of the security researcher's role



TERMINOLOGY

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HACKER = SECURITY RESEARCHER





**THE BLACK SECURITY
MARKET: A MYTH?**

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<http://tools.ietf.org/rfc/rfc4948.txt>

2.1. The Underground Economy

As in any economic system, the underground economy is regulated by a demand and supply chain. The underground economy, which began as a barter system, has evolved into a giant shopping mall, commonly running on IRC (Internet Relay Chat) servers. The IRC servers provide various online stores selling information about stolen credit cards and bank accounts, malware, bot code, botnets, root accesses to compromised hosts and web servers, and much more. There are DDoS attack stores, credit card stores, PayPal and bank account stores, as well as Cisco and Juniper router stores that sell access to compromised routers. Although not everything can be found on every server, most common tools used to operate in the underground economy can be found on almost all the servers.



OUR BUSINESS MODEL VS. THE REST

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	WSL
SINGLE SALE (AUCTION)	YES
MULTIPLE SALES	YES
DUTCH AUCTIONS	YES
BUY NOW	YES
EXCLUSIVE SALE	YES



OUR BUSINESS MODEL VS. THE REST

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	WSL	OTHERS
MULTIPLE SALES	YES	NO
REVENUE SHARING	YES	NO
RESPONSIBLE DISCLOSURE	NO	YES
FREE PUBLIC WARNING	YES	NO
360° INTEREST	YES	NO



**OUR BUSINESS MODEL
VS. THE REST**

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**SQUEEZING THE
LEMON TWICE**



| **IS IT ETHICAL?** |

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**RESPONSIBLE
DISCLOSURE ???**

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LEGAL ASPECTS OF A SECURITY MARKETPLACE

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	WabiSabiLabi	Researchers
Illegal possession of access codes	✓	✓
Wrongful purchase	✓	
Possession of stolen goods	✓	
Money laundering	✓	
Property theft		✓
Reverse engineering		✓
Terrorism	✓	✓
Wrong use of E.U.L.A.		✓
Blackmailing	✓	



CAVEAT EMPTOR

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caveat emptor

(kah-vee-ott emptor) Latin for "let the buyer beware." The basic premise that the buyer buys at his/her own risk and therefore should examine and test a product himself/herself for obvious defects and imperfections. Caveat emptor still applies even if the purchase is "as is" or when a defect is obvious upon reasonable inspection before purchase. **Since implied warranties (assumed quality of goods) and consumer protections have come upon the legal landscape, the seller is held to a higher standard of disclosure than "buyer beware" and has responsibility for defects which could not be noted by casual inspection (particularly since modern devices cannot be tested except by use and many products are pre-packaged).**



CAVEAT EMPTOR

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http://en.wikipedia.org/wiki/Caveat_emptor

Under the doctrine of Caveat Emptor, the buyer could not recover from the seller for defects on the property that rendered the property unfit for ordinary purposes. The only exception was if the seller **actively concealed** latent defects.





CAVEAT VENDITOR

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Caveat venditor is Latin for "let the seller beware".

It is a counter to caveat emptor, and suggests that sellers too can be deceived in a market transaction.

This forces the seller to take responsibility for the product, and discourages sellers from selling products of unreasonable quality.



THE BIG DILEMMA

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*“...to disclose or
not to disclose?”*



REPORT ON THE FIRST 3 MONTHS OF ACTIVITY

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- 1,000 subscribers
- 93 (*) submitted vulnerabilities of which
 - WEB APPLICATION 24
 - LINUX 17
 - WINDOWS 45
 - MAC 2
 - OTHER 5 (iphone, network appliances, etc)
 - INVALID or REJECTED 33

(*) at Aug. 27th 2007



WHAT KIND OF RESEARCH DID WE REJECT?

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HOW DID WE VET BUYERS AND SELLERS?

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HOW IS OUR RELATIONSHIP WITH VENDORS?

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HOW IS OUR RELATIONSHIP WITH VENDORS?

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WHAT ALLIANCES DID WE ESTABLISH?

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- PRIVATE SECURITY RESEARCHERS
- SECURITY COMPANIES (RESEARCH)
- HARDWARE MANUFACTURERS
- CONSULTANCY COMPANIES
- COMPETITORS



WHAT WE WISH FOR THE
FUTURE

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Open source hardware and software codes,
eventually patent covered



Q&A

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Q&A