

# Win32/Msblast: A Case Study from Microsoft's Perspective

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# Win32/Msblast & Win32/Sasser: Overview

	<b>Msblast</b>	<b>Sasser</b>	<b>Advantage</b>
<b>Vulnerability Type</b>	Critical	Critical	Tie
<b>Operating Systems Affected</b>	Windows 2000/XP	Windows 2000/XP	Tie
<b>Time from Vuln to Worm Release</b>	26 days	18 days	Sasser

**Microsoft identified over 20 times as many Msblast infections as Sasser infections !**

# Questions

- 
- ' What is the source of the data ?
  - ' How prevalent are Msblast / Sasser today ?

# Why Less Sasser Infections ?

Msblast was a wake-up call to the world . . .

- ' General Security Awareness
- ' Security Patch Installs
- ' Wide Cleaner Tool Distribution

# Why Less Sasser Infections ?

## General Security Awareness

July 16, 2003  
MS03-026

August 11, 2003  
Msblast.A

October, 2003  
PC-Safety

April 13, 2004  
MS04-011

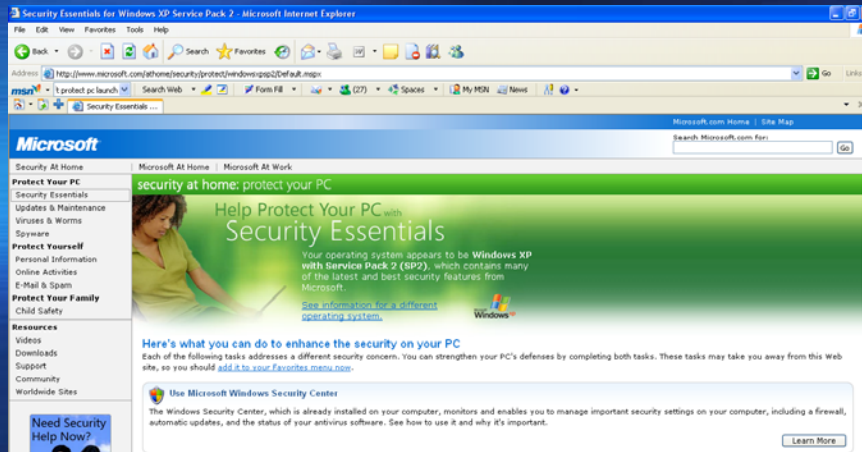
April 30, 2004  
Sasser.A

August, 2003

Protect Your PC

February, 2004

Windows Security CD



# Why Less Sasser Infections ?

## Security Patch Installs



July 16, 2003  
MS03-026

August 11, 2003  
Msblast.A

April 13, 2004  
MS04-011

April 30, 2004  
Sasser.A

July 23, 2003

MS 03-026 Downloads

April 20, 2004

MS04-011 Downloads



# Why Less Sasser Infections ?

## Wide Cleaner Tool Distribution



# Questions

- ' Why less Sasser infections ?



- ' How prevalent are Msblast / Sasser today ?



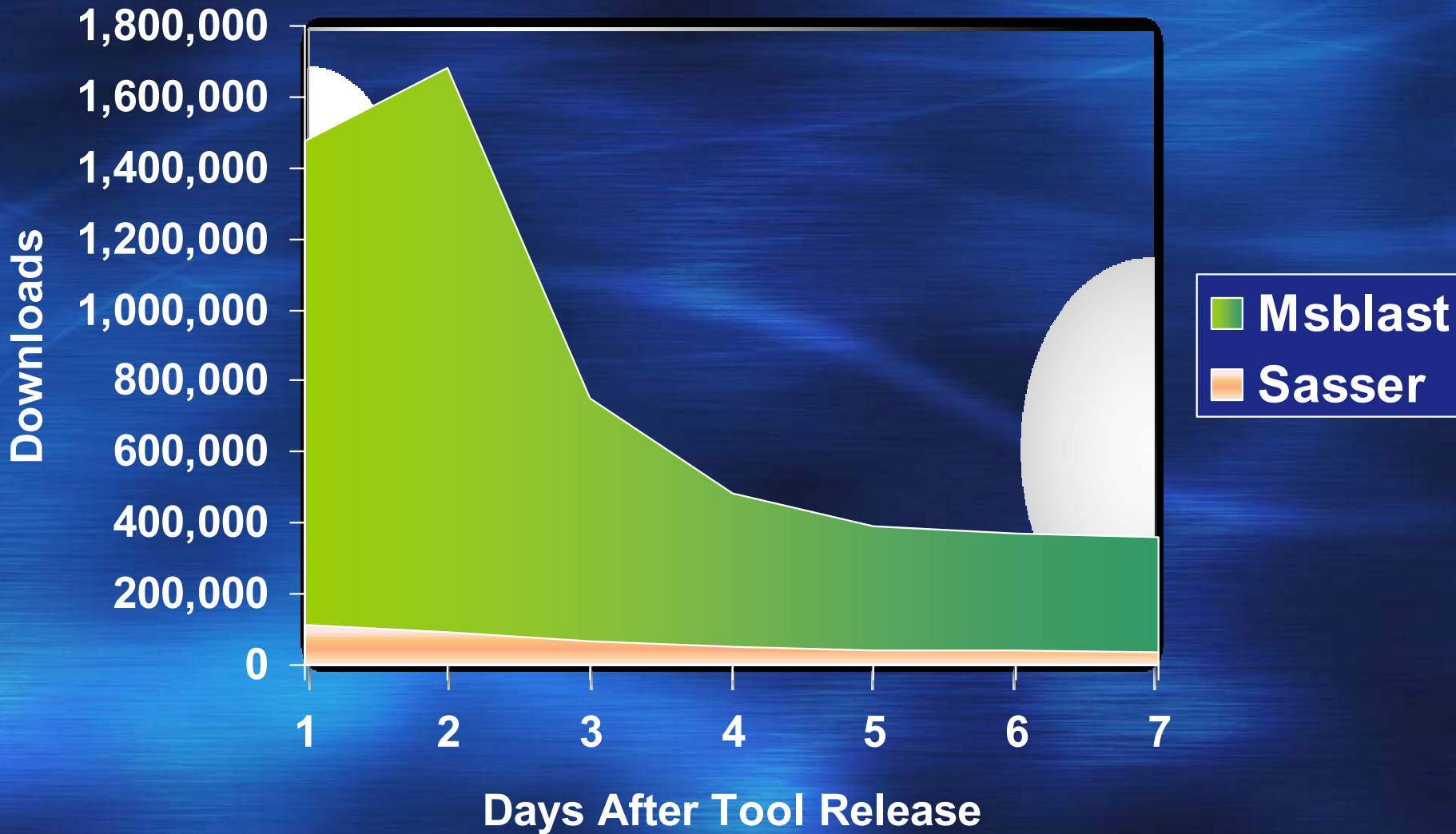
# What is the source of the data ?

## Overview

- Msblast / Sasser cleaner tools delivered through several mechanisms
  - Windows Update (WU) / Automatic Updates (AU)
  - Microsoft Download Center
  - ActiveX (Sasser cleaner only)
- Through WU / AU, only likely-infected users were offered the tools
- Download figures closely translate into infections

# What is the source of the data ?

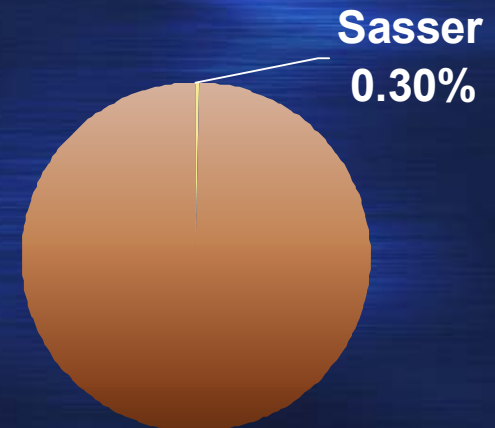
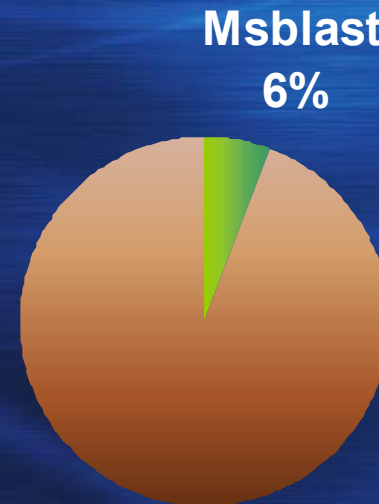
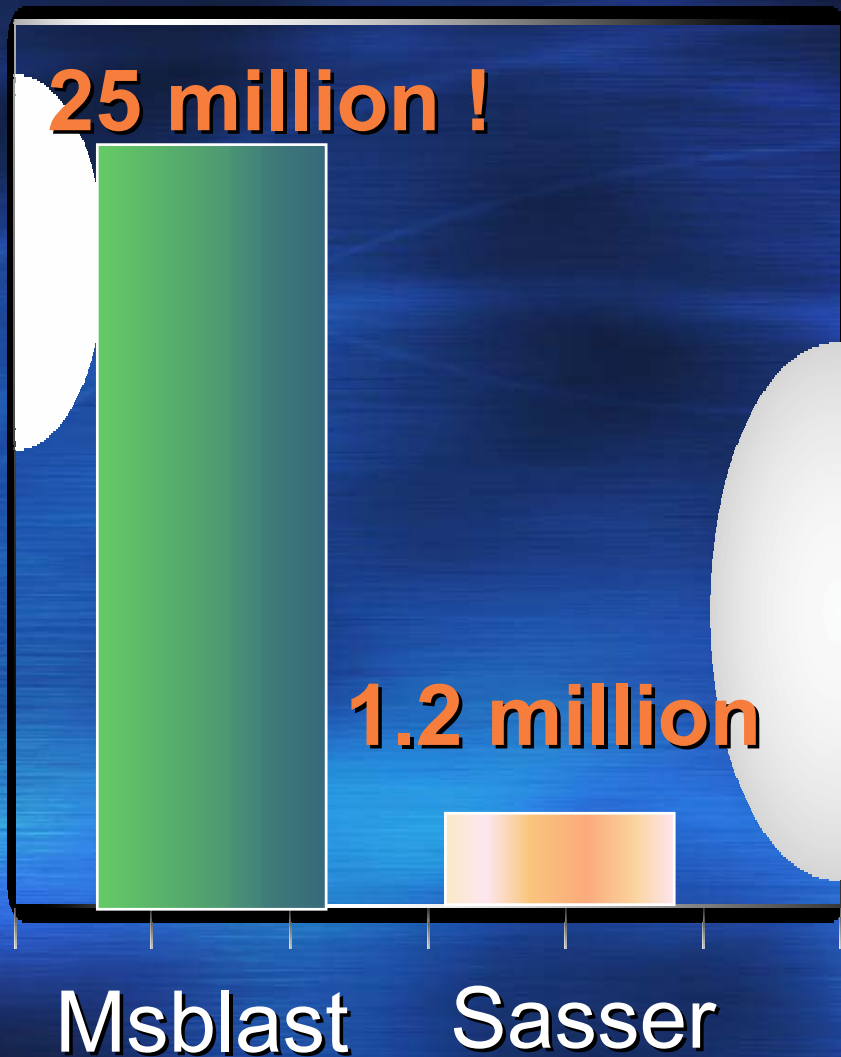
After 7 days . . .



# What is the source of the data ?

After 6 months . . .

## Infection Percentages



# Questions

- ' Why less Sasser infections ?
- ' What is the source of the data ?



# How prevalent are Msblast / Sasser today ?

## Background

- ' First version of Windows Malicious Software Removal Tool released on January 13, 2005
  - ' Offered to all Windows 2000, XP, and Server 2003 computers via WU / MU / AU
  - ' Removed Msblast, Sasser, and six other prevalent malware families
- ' Now released monthly on "Patch Tuesday"
- ' Current version removes 37 families
  - ' Over 1 billion total executions since January
  - ' Covers over 80% of malware on the Wildlist
- ' Not a replacement for an antivirus product

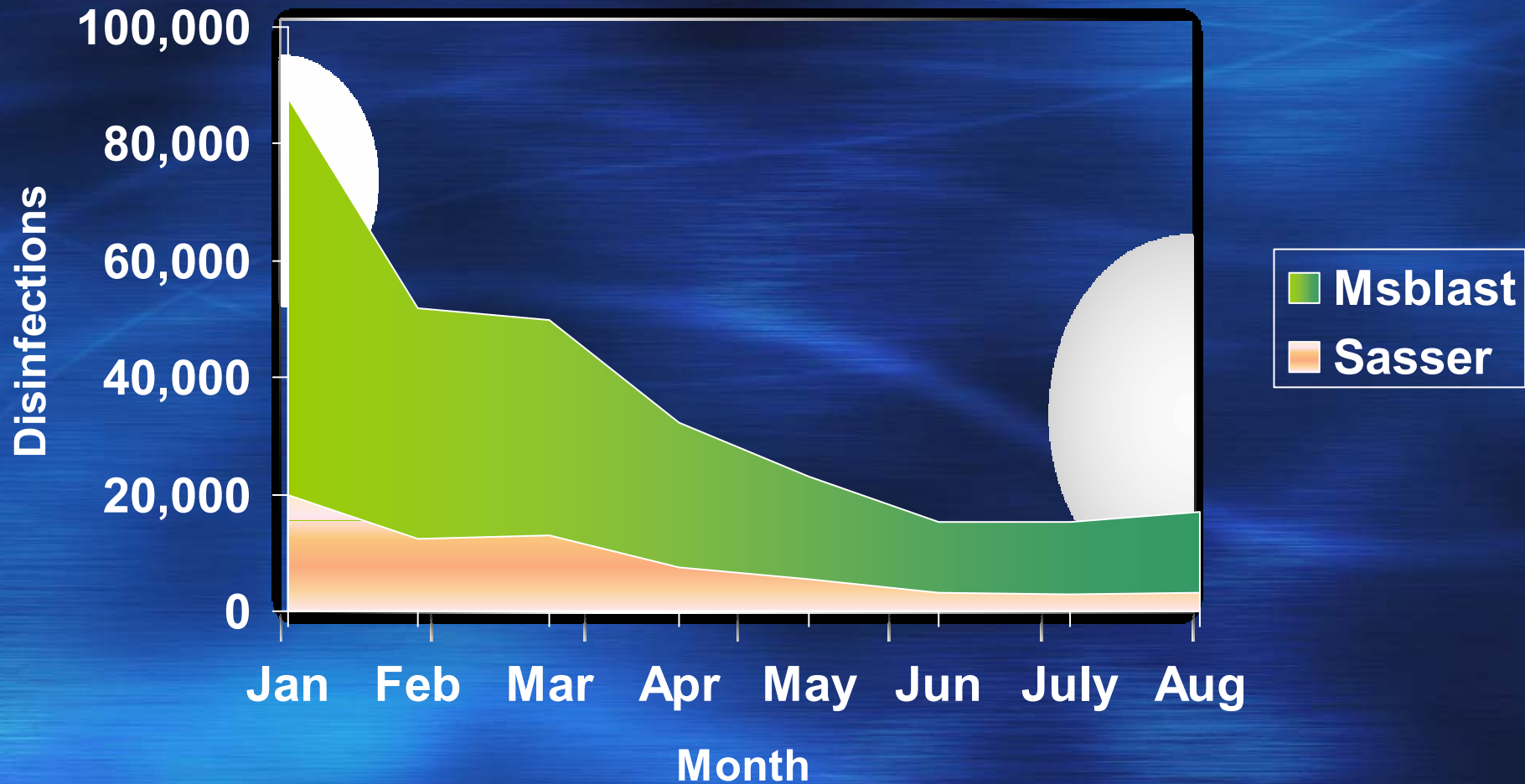
# How prevalent are Msblast / Sasser today ?

After 9 months ...

Rank	Malware Family
1	Rbot
2	Sdbot
3	Gaobot
4	Netsky
5	Msblast
6	Ispro
7	Korgo
8	FURootkit
9	Berbew
10	Bagle
11	Spybot
12	Mytob
13	Wootbot
14	Sasser
15	Bropia

# How prevalent are Msblast / Sasser today ?

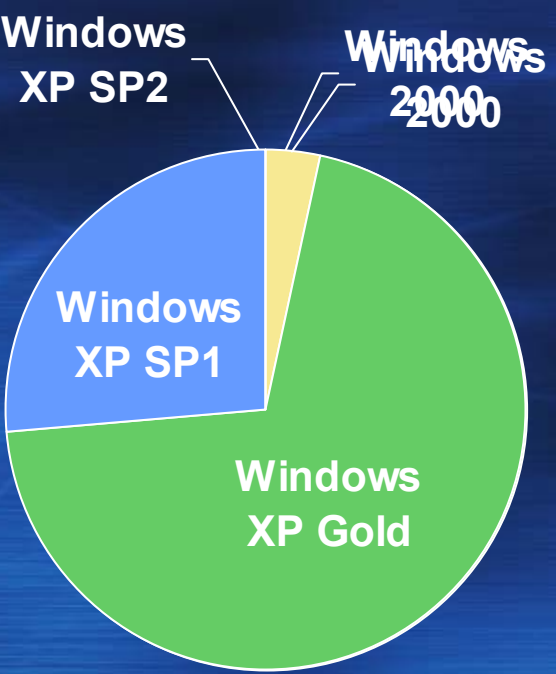
Over 9 months ...



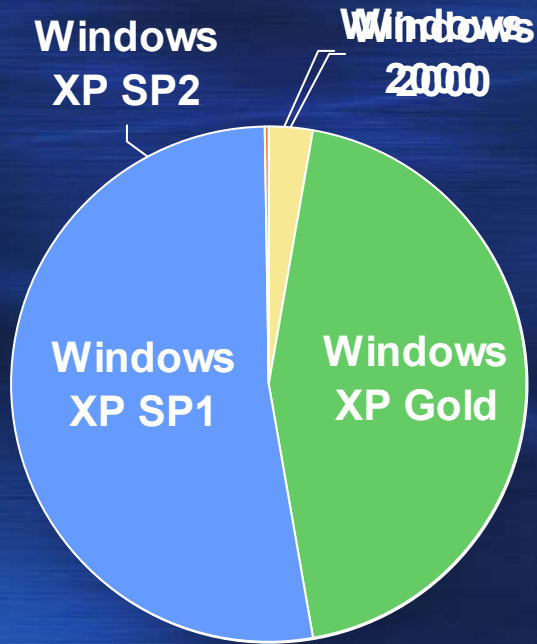
# How prevalent are Msblast / Sasser today ?

After 9 months ... by operating system

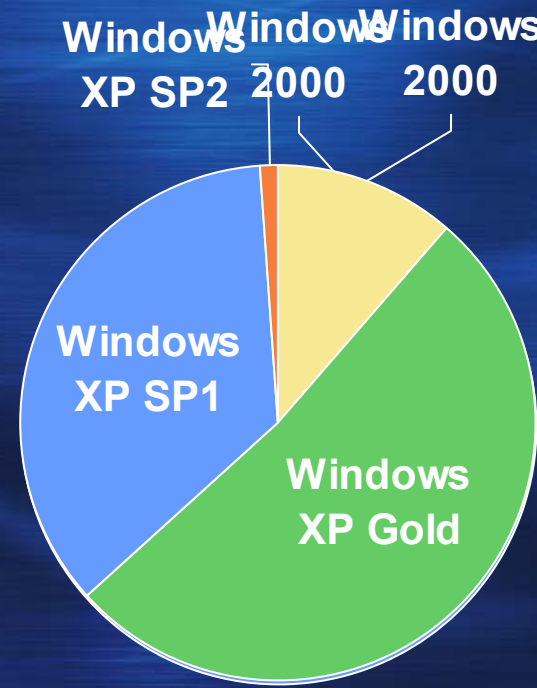
## Msblast



## Sasser



## All Families



The Windows Malicious Software Removal Tool is significantly less likely to remove malware from a Windows XP SP2 system



# Conclusions

- ' Malware is evolving ...
- ' ... but so is the security ecosystem
  - ' Heightened awareness
  - ' Faster patch distribution / installation
  - ' Increased usage of anti-malware products and tools
  - ' Wide distribution of a cleaner tool for highly prevalent threats
- ' For more detailed disinfection statistics, be sure to check out Jason Garms' presentation at AVAR 2005 !

# Thank you !

- ' Questions ?

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