



INTEGRITY High-Assurance Platform ("HAP") Presentation for MILS Demo Day

April 27, 2006

Introducing Green Hills Software

- ❑ **Incorporated in 1982**
- ❑ **Headquartered in Santa Barbara, CA**
- ❑ **Technology Leader in Operating Systems**
 - First and only COTS operating system certified to FAA DO-178B level A that can run different multiple levels of criticality on a single CPU
 - i.e. Level A and level D on the same CPU
 - First and only operating system undergoing EAL6+ security evaluation against Separation Kernel Protection Profile (SKPP)
 - First and only operating system certified to latest POSIX standard
- ❑ **Successful Business**
 - Record year in revenues in 2005
 - Profitable every year since 1983
 - Long-term, reliable, & stable technology partner for customers

INTEGRITY Operating System

Setting the Standard for Safety & Security

- ❑ INTEGRITY chosen for 100+ flight-safety and mission-critical systems
 - Boeing 787 airliner flight control systems, Airbus A380 inertial navigation system, Air Traffic Collision & Avoidance System, etc.
 - Lockheed F-16, F-22, and F-35 Joint Strike Fighter, & Boeing B1-B, B-52, etc.



INTEGRITY is the First & Only Operating System Under Evaluation for EAL6+ Against SKPP

CCEVS Website - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address http://niap.nist.gov/cc-scheme/in_evaluation.html# Go Links

Product Name: INTEGRITY-178B Separation Kernel
Technology Type: Operating System
Entered into Evaluation: 12 August 2005
Conformance Claim: EAL6 Augmented with ACM_AUT.2; ACM_CAP.5; ACM_SCP.3; ADO_IGS.1; AGD_USR.1; ALC_DVS.2; ALC_LCD.2; ALC_TAT.3; ATE_COV.3; ATE_DPT.2; ATE_FUN.2; ATE_IND.3; AVA_MSU.3; AVA_SOF.1; AVA_VLA.4
US Government Protection Profile for Separation Kernels in Environments Requiring High Robustness
Sponsor: [Green Hills Software, Inc.](#)
Point of Contact: Stewart Reid
Phone: 805.965.6044
Fax: 805.965.6343
Email Address: stewart.reid@ghs.com
CC Testing Lab: SAIC CCTL

Product Name: Iron Mail
Technology Type: Secure Messaging
Entered into Evaluation: 30 October 2003
Conformance Claim: EAL2
Sponsor: [Ciphertrust, Inc](#)
Point of Contact: David Sharoun
Phone: 678.904.9241
Email Address: David.Scharoun@CipherTrust.com
CC Testing Lab: Coact

Product Name: IronPort C60 Appliance running AsyncOS v4, IronPort C30 Appliance running AsyncOS v4
Technology Type: Secure Messaging
Entered into Evaluation: TBD
Conformance Claim: EAL2 Augmented with ALC_FLR.1, AVA_MSU.1
Sponsor: [IronPort Systems, Inc](#)
Point of Contact: Jat Pannu
Phone: 650.989.6495
Email Address: jpannu@ironport.com
CC Testing Lab: SAIC

Product Name: ISS SiteProtector, Proventia A, Proventia G, and Network Sensor
Technology Type: IDS/IPS
Entered into Evaluation: TBD
Conformance Claim: EAL2
Sponsor: [Internet Security Systems, Inc.](#)
Point of Contact: Kathleen Mahoney

Done Internet

INTEGRITY is the First & Only POSIX.1 Certified Operating System

POSIX Certification - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media RSS Print Mail News Groups Bluetooth Messenger

Address http://get.posixcertified.ieee.org/cert_prodlist.tpl Go Links

Google ieee posix integrity Search 468 blocked ABC Check AutoLink AutoFill Options ieee posix integrity

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE
Membership Publications Services Standards Conferences Careers/Jobs

IEEE POSIX® Certified by IEEE and The Open Group

Monday, 24 October 2005 POSIX and IEEE-SA Links

Product Certification [BACK](#) You are here: [POSIX Certification](#) > [Certification Register](#)

» [Enter secure site](#)
» [Help](#)

Certification Register

*The columns below provide links to the product information, the company's URL, if any, and the product's Conformance Statement, respectively.
Clicking on a heading or arrow head will sort that column.*

Certified Products

» [Certification Register](#)

Documents

» [Certification Guide](#)
» [Certification Policy \[PDF\]](#)
» [Trademark License Agreement \[PDF\]](#)
» [Certification Agreement](#)
» [Fee Schedule \[PDF\]](#)
» [Product Standards](#)
» [Conformance Statements](#)


» [Test Suites](#)
» [Frequently Asked Questions](#)

IEEE POSIX Links

» [IEEE](#)

There are 1 products from 1 companies

POSIX 1003.1-2003

Product	Company	Product Standard	Certification Level (faq)	POSIX® (faq)	Registered	Renewal	Conformance Statement
INTEGRITY 5.0 PPC	Green Hills Software Inc	1003.1-2003 System Interfaces	Platform Specific	no	27-Jul-2004	27-Jul-2006	

Tue Oct 25 01:27:06 BST 2005

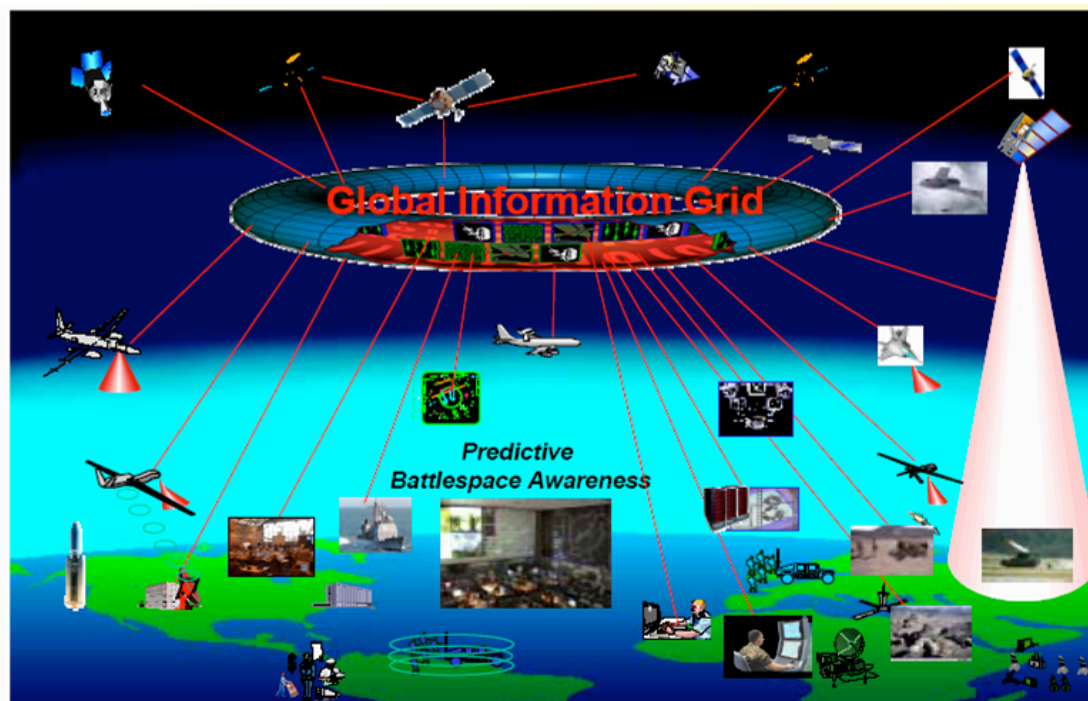
[Search](#) the Certification Register or display a [printer-friendly version](#)

Internet

Current Problem:

Today's Operating Systems are NOT Secure

- ❑ Problem: Millions of computer systems from embedded to enterprise, all having insecure operating systems, must retrieve, transmit, and receive information at multiple, different security levels so that decision makers at various security levels can act upon the information before it becomes obsolete.

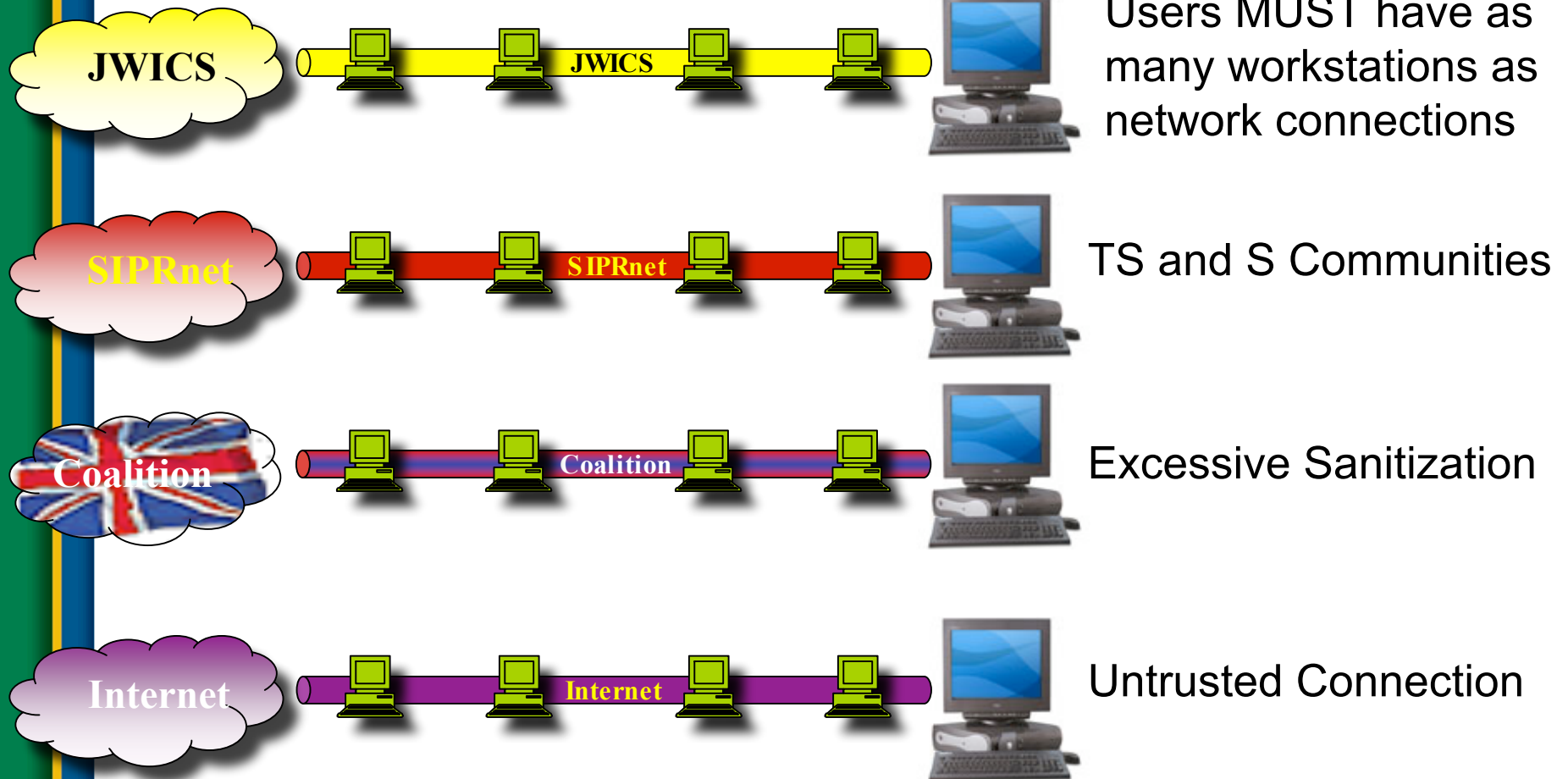


Power to the Edge ~~~~~



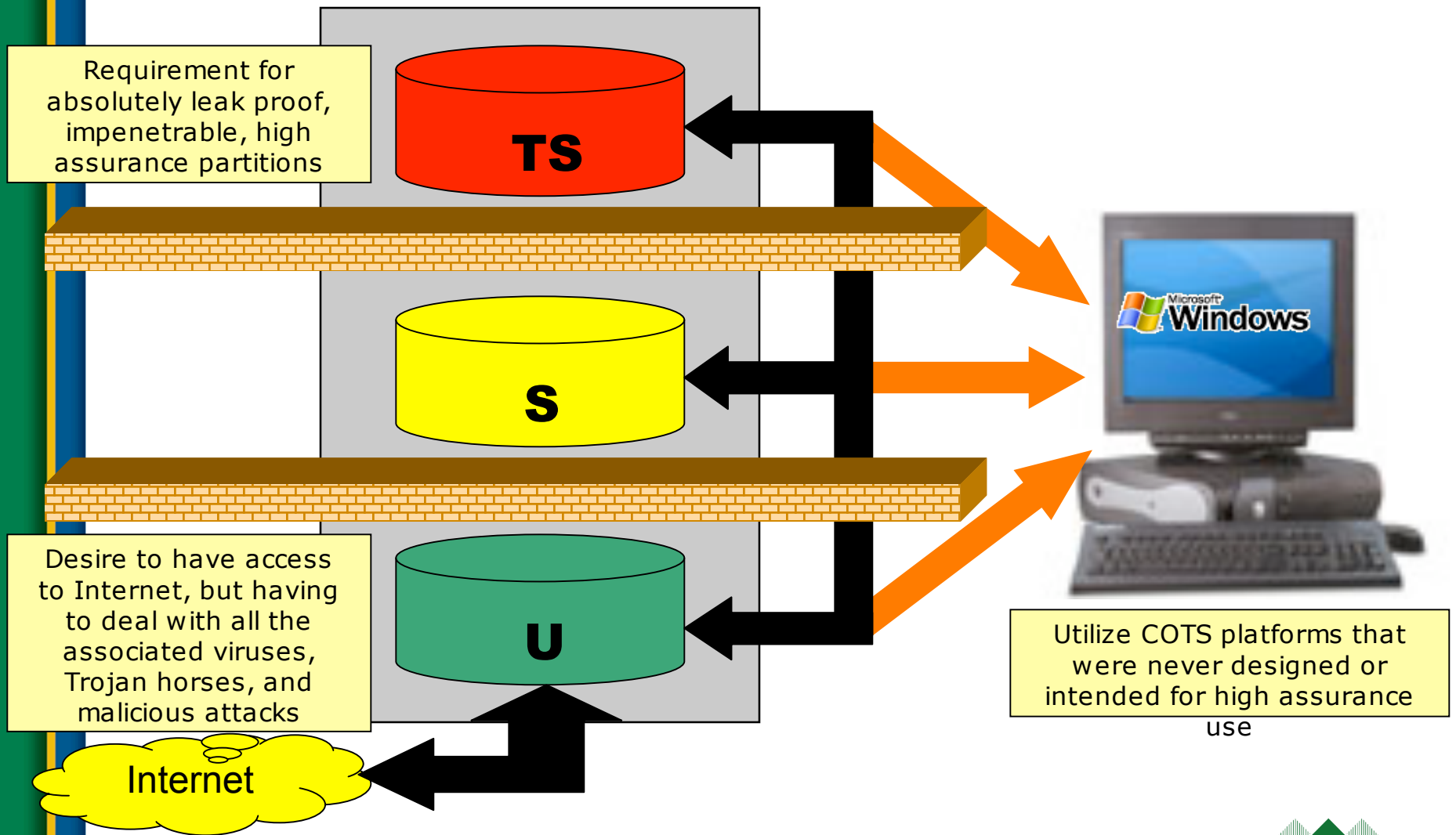
April 19, 2006

Current Solution: Multiple Independent Networks



Current network separation *prevents* the seamless sharing of data

Solution: Secure Operating System with Multiple Levels of Security on a Single COTS Platform





INTEGRITY[®]

Secure Operating System

Introducing:

**INTEGRITY Operating System-based
High-Assurance Platforms**

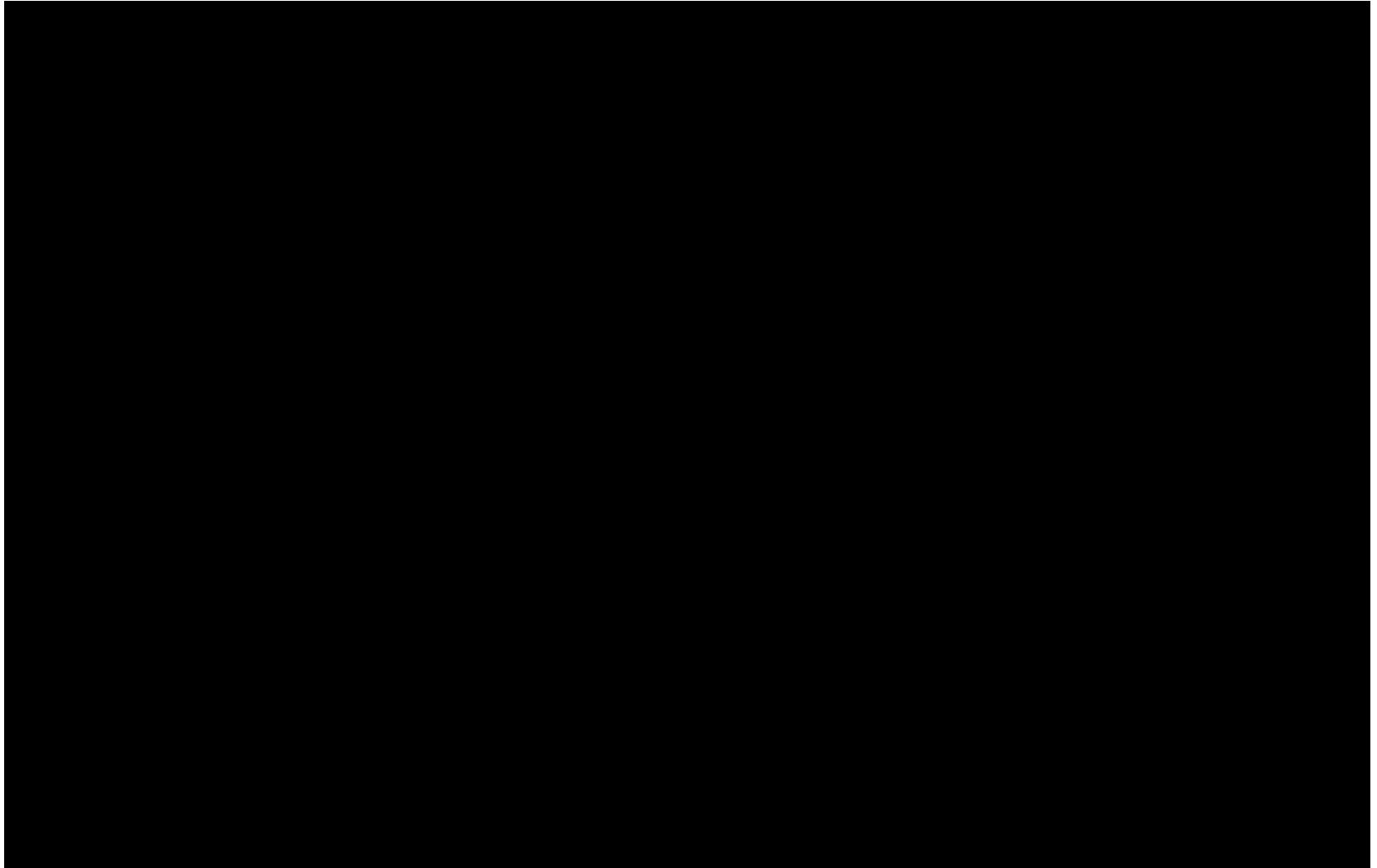


Copyright 1996-2005 Green Hills Software, Inc.

INTEGRITY High-Assurance Platforms

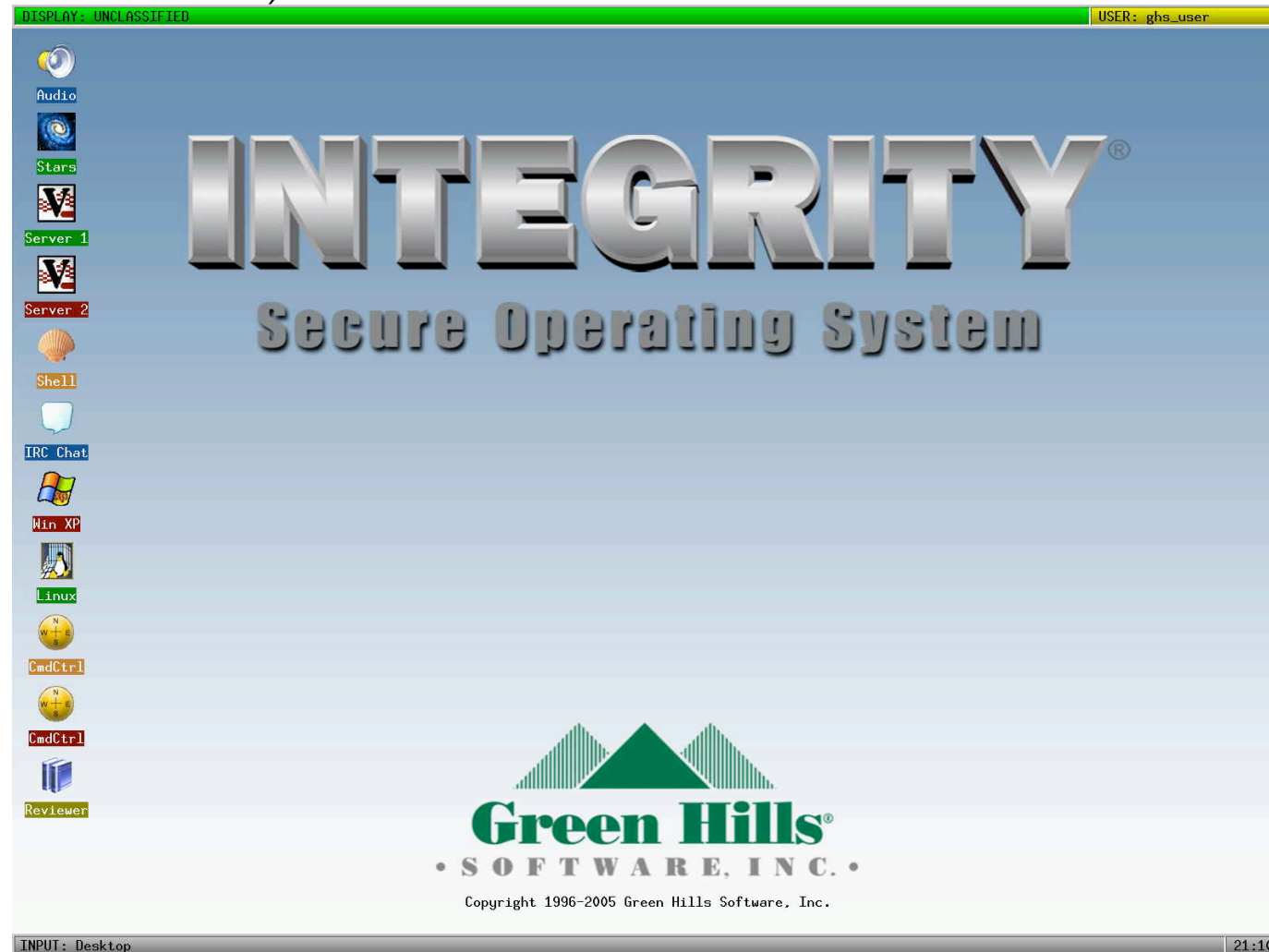
- ❑ INTEGRITY High-Assurance Platforms
 - INTEGRITY Server
 - INTEGRITY Workstation
 - Diskless or Thin Client
 - INTEGRITY PC
 - INTEGRITY PDA
- ❑ An INTEGRITY-based COTS PC runs Windows and Linux operating systems and their respective applications in secure partitions (“Padded Cells”) at multiple different security levels
 - Runs standard off-the-shelf applications unmodified including PowerPoint, Word, Excel, etc.
 - Runs trusted secure applications with absolute security
 - Impossible for hackers, Trojan horses, viruses, buffer overflows, etc. to impact PC’s operation and security

INTEGRITY Provides Secure Partitions for COTS Operating Systems & Applications



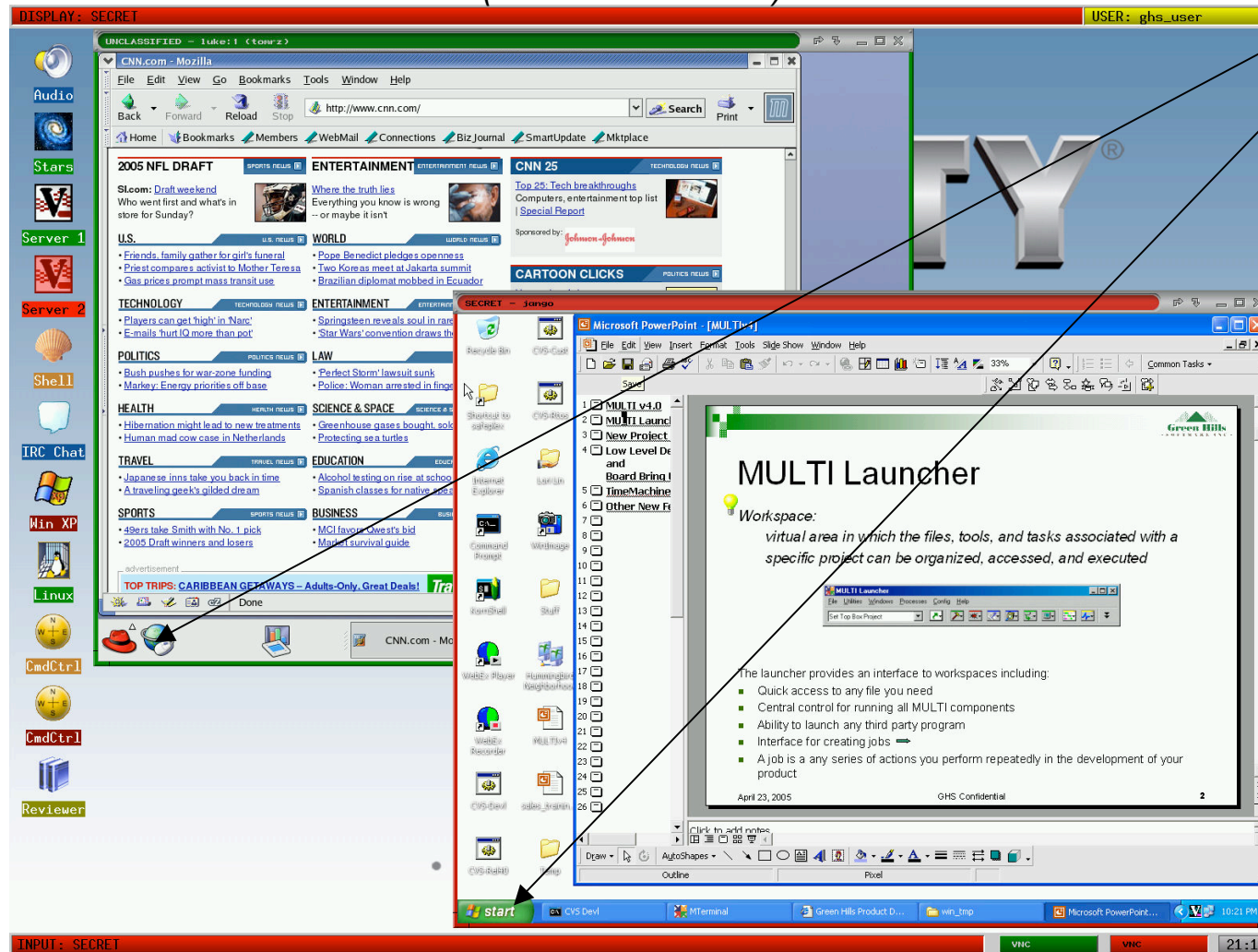
INTEGRITY High-Assurance Platform Desktop

(actual screen shot)



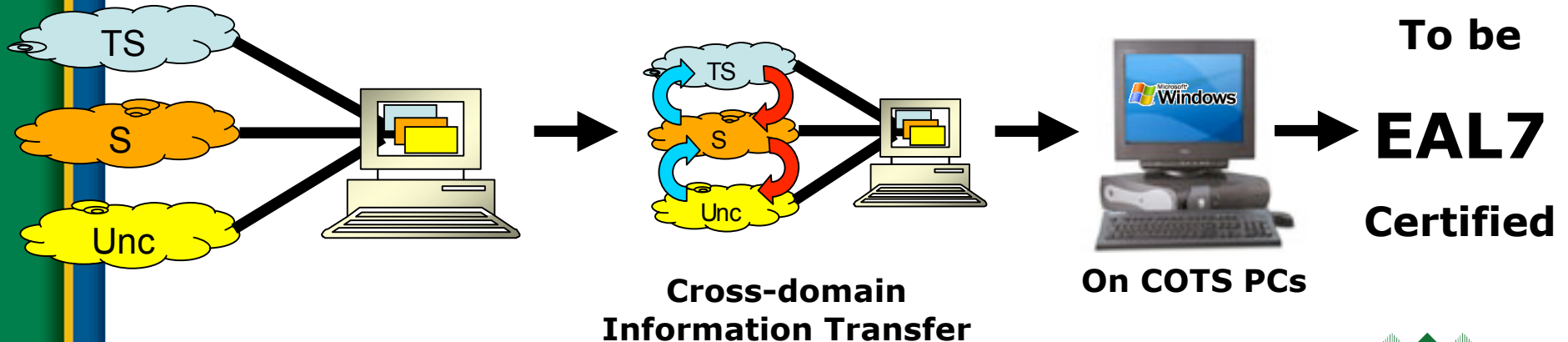
INTEGRITY Workstation Runs PowerPoint on XP & Red Hat Linux in Separate, Secure Padded Cells

(actual screen shot)



INTEGRITY High-Assurance Platforms

- ❑ Allows a high-level, trusted user on a **single** COTS PC running Microsoft Windows and/or Linux, the ability to access multiple simultaneous networks running different levels of classification from Unclassified up to SCI/TS (or higher)
- ❑ Guarantees the SEPARATION, PROTECTION, and SECURE TRANSFER of sensitive data to the highest level of ASSURANCE
- ❑ **Available today**



Call Today for a Demonstration at Your Site

- ❑ For more information, please contact:

Green Hills Software, Inc.

Attention: Mr. Stewart Reid

Phone: 805.965.6044 x120

Email: stewart.reid@ghs.com