

(ISC)² Update

(“Security Transcends TechnologySM”)

Dow A. Williamson, CISSP

Director of Communications

dwilliamson@isc2.org

www.isc2.org

(ISC)²



SECURITY TRANSCENDS TECHNOLOGYSM

Overview



- **(ISC)²** – *About Us*
- **Trust** – *The Ultimate Firewall*
- **Professional Certifications** – *The Gold Standards*
- **Career Path** – *Cradle-to-Grave for INFOSEC Professionals*
- **Industry Support** – *The Professional, The Employer, and The Profession*
- **CISSPs/SSCPs** – *Around the World*
- **Next Steps**



Overview



- **(ISC)²** – *About Us*
- **Trust** – *The Ultimate Firewall*
- **Professional Certifications** – *The Gold Standards*
- **Career Path** – *Cradle-to-Grave for INFOSEC Professionals*
- **Industry Support** – *The Professional, The Employer, and The Profession*
- **CISSPs/SSCPs** – *Around the World*
- **Next Steps**

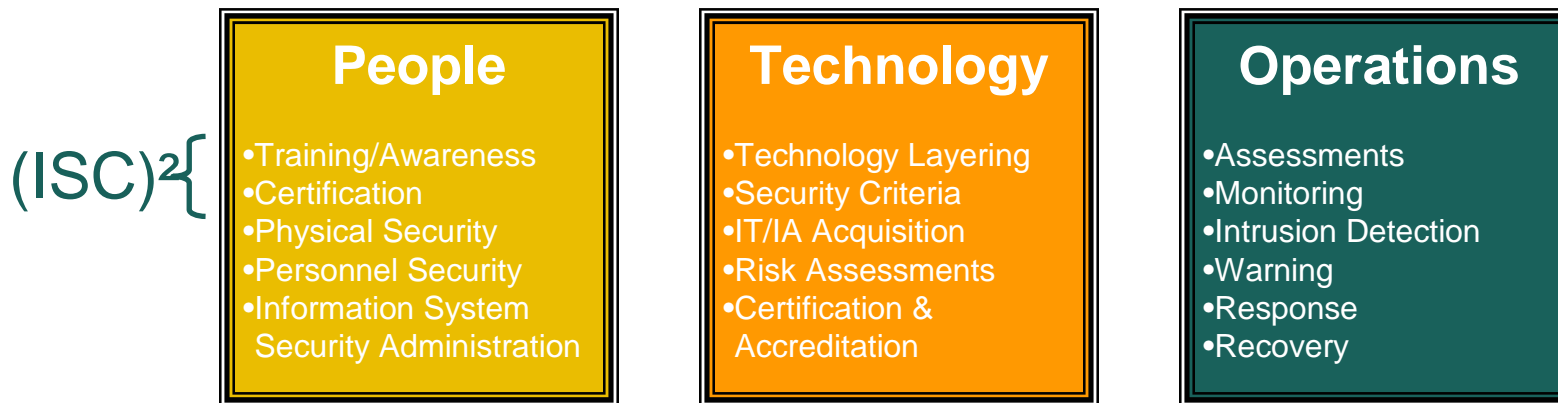


(ISC)² - About Us

- Established in 1989
- Global Standard for Information Security – (ISC)² CBK[®], a compendium of industry “best practices”
- Non-profit consortium of industry leaders
- Dedicated to training, educating, qualifying, and certifying information security professionals worldwide
- Approximately 27,000 constituents in 106 countries
- Board of Directors -- Top INFOSEC professionals -- worldwide



“Defense in Depth Strategy” – Where Does (ISC)² Fit?



Overlapping Approaches & Layers of Protection



Overview



- **(ISC)²** – *About Us*
- **Trust** – *The Ultimate Firewall*
- **Professional Certifications** – *The Gold Standards*
- **Career Path** – *Cradle-to-Grave for INFOSEC Professionals*
- **Industry Support** – *The Professional, The Employer, and The Profession*
- **CISSPs/SSCPs** – *Around the World*
- **Next Steps**



Security Evolving to “Trust”

We chose the term “**Trust**” carefully because it is the real essence of relationships in the networked world.

- **Security** is primarily defensive and inward looking
- **Control** is a process to achieve it

But...”**Trust**” is an ongoing and outgoing interaction that establishes and maintains mutual confidence among many entities.

“Trust” is crucial to the 21st century world!

The poster features a bright yellow background with a sunburst pattern radiating from the center. The word "TRUST" is written in large, bold, white capital letters at the top. Below it, "IS THE ULTIMATE FIREWALL" is written in smaller, bold, white capital letters. Underneath this, the text "(ISC)² – SECURITY TRANSCENDS TECHNOLOGY™" is displayed in a smaller font. The main body of the poster contains two paragraphs of text. The first paragraph discusses the importance of skilled security professionals and mentions CISSP and SSCP credentials. The second paragraph describes the ISC² consortium and its mission. At the bottom, there is a dark green section with white text providing contact information: "For more information on training or certification, please call 1.888.333.4458 or visit www.isc2.org". To the right of this text are the ISC², CISSP, and SSCP logos. A small copyright notice is at the very bottom.

TRUST
**IS THE ULTIMATE
FIREWALL**

(ISC)² – SECURITY TRANSCENDS TECHNOLOGY™

Even organizations with identical security technology can have information systems whose trustworthiness isn't comparable. Skilled, motivated and reliable security architects, designers, implementers, administrators and managers make the difference. Experts whose abilities are coveted, because as holders of CISSP® and SSCP® credentials, they're the trusted constituents of the non-profit consortium of industry leaders known as (ISC)².

(ISC)² is a non-profit consortium of industry leaders whose charter it to compile and maintain the most comprehensive compendium of best practices in information security. And from this, develop the industry standards for training and credentialing. Those professionals who earn CISSPs and SSCPs share the credibility of the internationally recognized Gold Standard® in information security.

For more information on training or certification, please call
1.888.333.4458
or visit **www.isc2.org**

(ISC)²
CISSP® SSCP®

© Copyright 2003, (ISC)², Inc. All rights reserved. All marks are the property of the International Information Systems Security Certification Consortium, Inc.



“Trust” and Ethics

Certification is granted or revoked at the sole discretion of the (ISC)² Board of Directors. Conscientious observance of the following code of conduct is a binding condition of credentials granted by (ISC)².

Code of Ethics Preamble

- Safety of the commonwealth, duty to our principals, and to each other requires that we adhere, and be seen to adhere, to the highest ethical standards of behavior.
- Therefore, strict adherence to this code is a condition of certification.

Code of Ethics Canons

- Protect society, the commonwealth, and the infrastructure.
- Act honorably, honestly, justly, responsibly, and legally.
- Provide diligent and competent service to principals.
- Advance and protect the profession.

***“Trust” is the
(ISC)² Ethical Code requirement!***

Trust

- Requires security and control...but, it goes beyond them...
- Depends on technology and protective mechanisms...but, not solely...
- Involves professionalism, reputation, contracts, law, openness, familiarity, fair business practices and ethics, quality, timeliness, and a host of other relationship characteristics...



Overview



- **(ISC)²** – *About Us*
- **Trust** – *The Ultimate Firewall*
- **Professional Certifications** – *The Gold Standards*
- **Career Path** – *Cradle-to-Grave for INFOSEC Professionals*
- **Industry Support** – *The Professional, The Employer, and The Profession*
- **CISSPs/SSCPs** – *Around the World*
- **Next Steps**



Characteristics of a Professional Certification

- **International** – based upon international compendium of industry “best practices” – (i.e., (ISC)²’s CBK[®])
- **Examination** – Rigorous exam to assure knowledge of CBK
- **Independent** – Not product or service specific – Tests habitual knowledge
- **Endorsement** – Strict endorsement and audit process to verify candidate assertions
- **Ethics** – Comprehensive set of behavioral guidelines – Professional judgment
- **Experience** – Practical application of the CBK is acquired through experience
- **Re-certification** – Continuing education/training to maintain credential
- **Maturity** – Wide acceptance as the true measure of competency



Benefits of Certification...

...to the Enterprise

- Solutions orientation, not specialization
- Broad understanding of the CBK®
- The rigor and regimen adds to credibility
- A business and technology orientation to risk management

...to the Professional

- Career differentiator
- Confirms knowledge of information security
- Networking with global and domain experts
- Member of a “family” concerned about your career



(ISC)² Certifications



“Security Transcends TechnologySM”



(ISC)² Certified Information Systems Security Professional

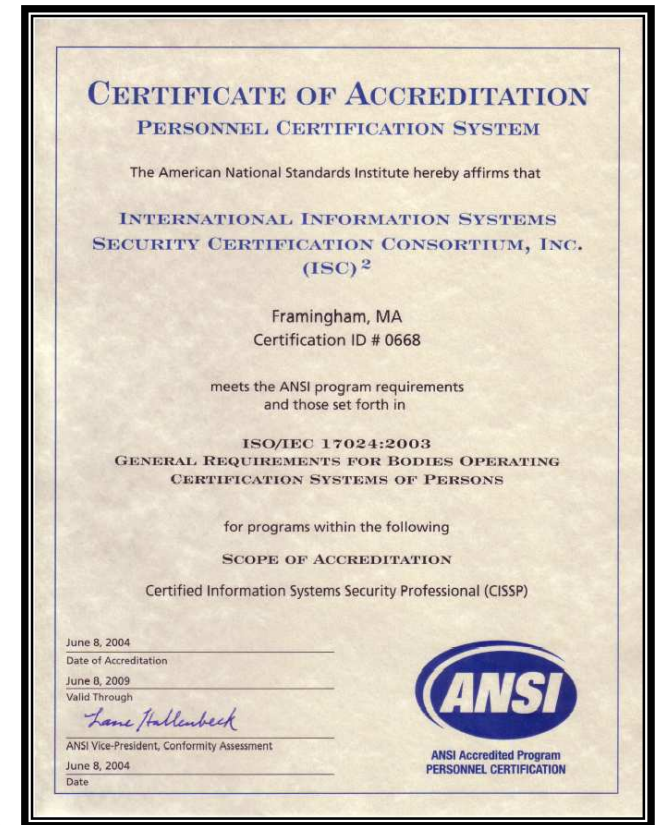


- Tailored for experienced information security professionals
- Minimum four years cumulative experience in (ISC)² CBK[®] domains
- Undergraduate degree required for one year experience abatement
- Subscribe to (ISC)² Code of Ethics
- Endorsed by another CISSP or senior management
- Certification maintained through continuing education program
- Supplemental “Concentrations” available in several areas



CISSP® ISO/IEC 17024 Accreditation

- **International Standards Organization** - Nearly 150 countries
- **American National Standards Institute** – US Representative to ISO
- **ISO/IEC 17024**
 - 88 countries participated
 - “Personnel Certification System” standard
- **Applications Package**
 - 140 labor hours to prepare (100+ page narrative plus 41 appendices)
 - Covered all aspects of how (ISC)² meets the various governing, operational, policy, and procedural aspects of ISO/IEC 17024.
- **On-Site Audit**
 - ANSI Psychometrician and Program Manager experts reviewed thousands of technical details of CISSP program, conducted interviews, and randomly reviewed documentation on-site.
- **(ISC)² CISSP Credential**
 - 1st worldwide information security credential to achieve ISO/IEC 17024
 - 1st IT organization to be accredited by ANSI for ISO/IEC 17024
- **What does it mean for...**
 - The information security profession
 - Businesses and governments
 - (ISC)² CISSP credential holders



CISSP® CBK® Domains

- Security Management Practices
- Law, Investigation & Ethics
- Physical Security
- Operations Security
- Business Continuity & Disaster Recovery Planning
- Computer, System & Security Architecture
- Access Control Systems & Methodology
- Cryptography
- Telecommunications & Network Security
- Application Program Security



CISSP® Information Systems Security Architecture Professional (ISSAP^{CM}) CBK® Domains



- Access Control Systems and Methodology
- Telecommunications and Network Security
- Cryptography
- Requirements Analysis and Security Standards/Guidelines Criteria
- Technology Related Business Continuity Planning (BCP) & Disaster recovery Planning (DRP) & Continuity of Operations Planning (COOP)
- Physical Security Integration



CISSP® Information Systems Security Engineering Professional (ISSEP^{CM}) CBK® Domains



- Systems Security Engineering
- Certification & Accreditation
- Technical Management
- U.S. Government Information Assurance (IA) Regulations



CISSP® Information Systems Security Management Professional (ISSMP^{CM}) CBK® Domains



- Enterprise Security Management Practices
- Enterprise-Wide Systems Development Practices
- Oversee the Compliance of Operations Security
- Understand Business Continuity Planning (BCP) & Disaster recovery Planning (DRP) & Continuity of Operations Planning (COOP)
- Law, Investigation, Forensics, and Ethics



(ISC)² Systems Security Certified Practitioner



- Tailored for systems and network security administration professionals
- Minimum one year cumulative experience in (ISC)² CBK[®] domains
- Subscribe to (ISC)² Code of Ethics
- Certification maintained through continuing education program



SSCP® CBK® Domains

- Access Control
- Administration
- Audit and Monitoring
- Risk, Response and Recovery
- Cryptography
- Data Communications
- Malicious Code/Malware



(ISC)² Certification Examination Process

- **Managed Independent of (ISC)²**
 - Schroeder Measurement Technology, Inc.
 - Psychometric professionals oversee all aspects (e.g., development, delivery, and maintenance)
- **Based on (ISC)² CBK[®]** – international compendium of industry “best practices”
- **Content Outline** – Evaluated and written by Subject Matter Experts (SMEs)
- **Job Analysis Study** – Used to continually update CBK and exam material
- **Test Development and Administration**
 - Exams meet specifications of Content Outline
 - Exams have the same proportion of items from a given domain
 - Stringent “industry standards” are used to administer the exam
- **Scoring/Equating**
 - Modern measurement models (Item Response Theory) are used to equate the exams
 - IRT allows the implementation of a “passing score” once the exam is developed



(ISC)² Certification Examinations

- **Format**

- 250 (CISSP®) / 125 (SSCP®) multiple choice questions
- 6 (CISSP®) / 4 (SSCP®) hours to complete -- No trick questions

- **Flexible Scheduling**

- Major INFOSEC conferences
- (ISC)² CBK® Review seminar locations
- Public examination locations
- Special “hosted” events

***439 locations
in 42 countries
in 2003***

- **Conceptual/Independent** – Product independent...test knowledge of fundamentals
- **Peer driven** – Test questions written by previously certified constituents
- **Rigorous endorsement process** – Validated by CISSP/SSCP



Overview



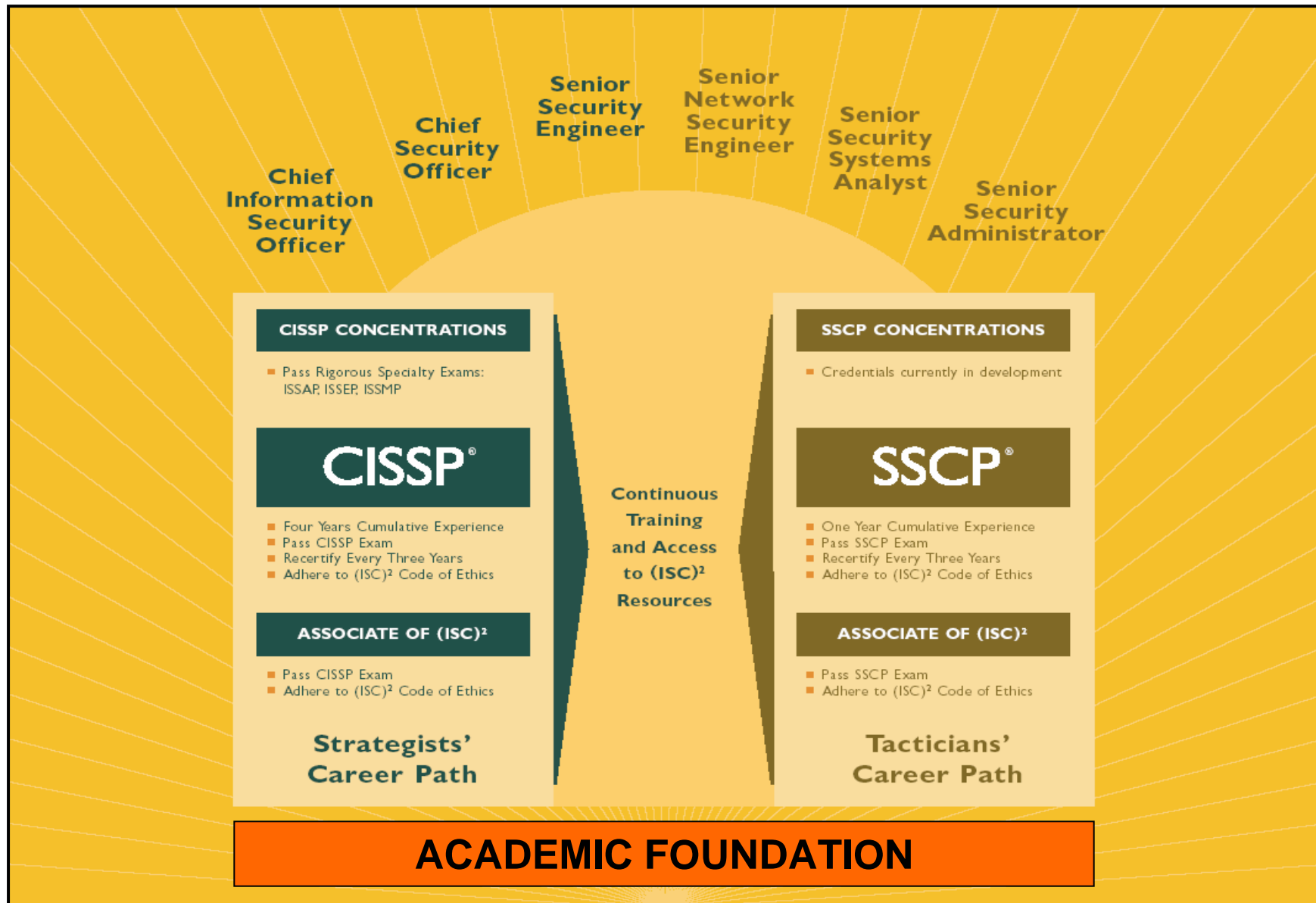
- **(ISC)²** – *About Us*
- **Trust** – *The Ultimate Firewall*
- **Professional Certifications** – *The Gold Standards*
- **Career Path** – *Cradle-to-Grave for INFOSEC Professionals*
- **Industry Support** – *The Professional, The Employer, and The Profession*
- **CISSPs/SSCPs** – *Around the World*
- **Next Steps**



(ISC)² Career Path – “Cradle-to-Grave Constituent Support”



(ISC)² Career Path – “Academic Foundation”



(ISC)² Academic Partner Program

- (ISC)² Scholarship
 - \$50,000 annually
 - Post-Graduate Information Security Research
- CISSP®/SSCP® “Experience Requirement” Waivers for undergraduate/graduate degrees
- Academic credit for CISSP credential
- (ISC)² CBK® Review Seminar hosting
- (ISC)² Examination hosting
 - CISSP or SSCP exam
 - Associate of (ISC)² status



(ISC)² Academic Scholarship Program

What: \$50,000 Available for Information Security Research*

Candidates: Information Security students conducting post-graduate research

Awards: Four one-year scholarships up to \$12,500 Available

When: Deadline for submission is November 31, 2004

Apply: www.isc2.org

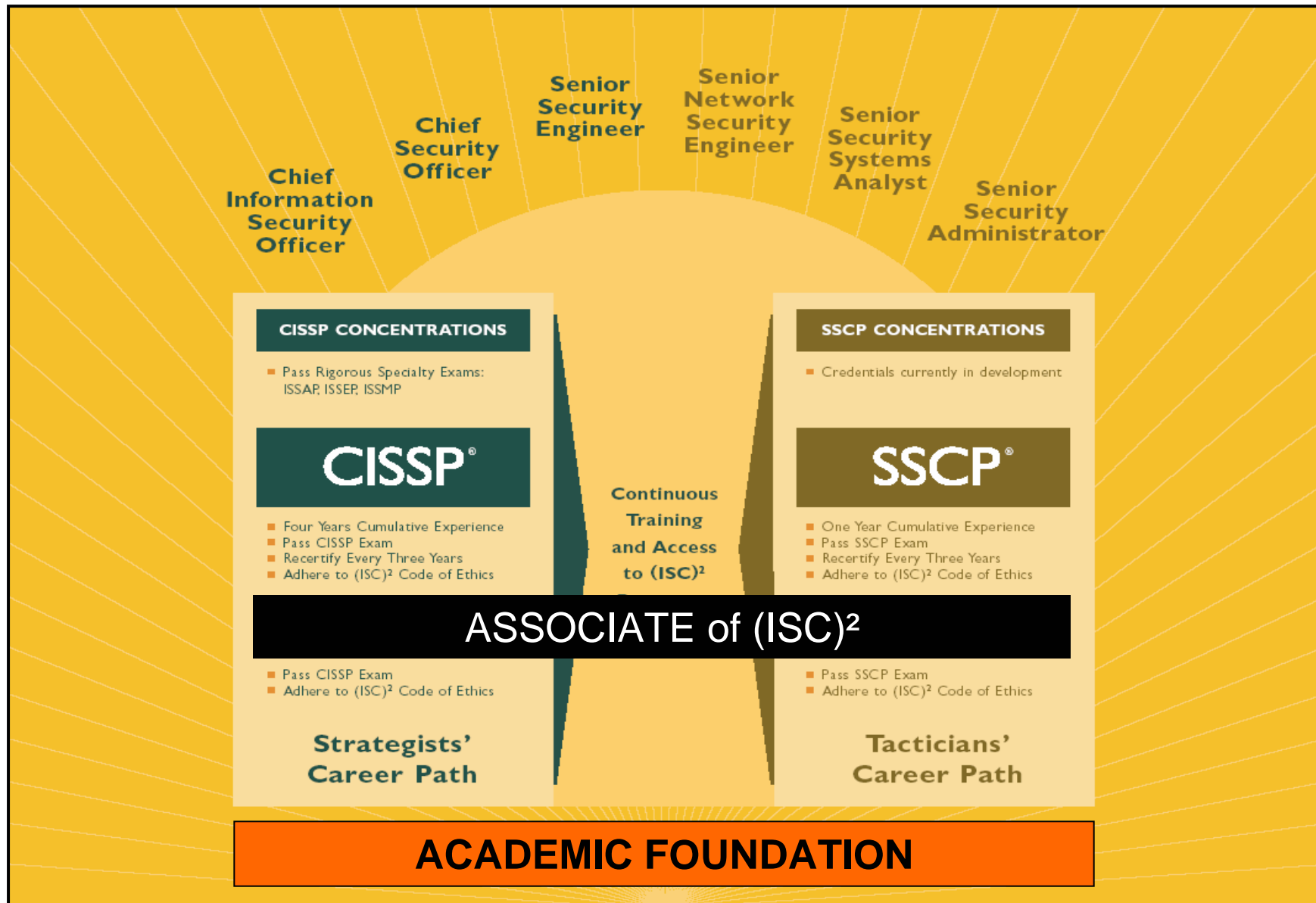
*Excludes travel, board, and tuition costs

For more information contact:
Mr. Dorsey Morrow, CISSP
dmorrow@isc2.org

(ISC)²
SECURITY TRANSFORMED TECHNOLOGY™



(ISC)² Career Path – “Associate of (ISC)²”



Associate of (ISC)²

- **Program to...**
 - Provide early support for Information Security careers
 - Accelerate the professional growth of practitioners worldwide
- **Designed for candidates who...**
 - Pass the CISSP® or SSCP® examination
 - Lack professional experience required for formal certification
- **Indicates a candidate...**
 - Possesses an independent and objective measure of competence via understanding of the (ISC)² CBK®
 - Aspires to adhere to the rigors and ethics of the profession through association with (ISC)²
 - Is required to complete the necessary professional experience and the subsequent Endorsement Process within 5 years
- **Provides access to suite of (ISC)² career support programs...**
 - Specialized forums
 - Communications
 - Peer networking

NEWS

FOR IMMEDIATE RELEASE

Contact:
Nancy Kupperfeld or Mike Miller
Majors Communications, Inc.
(949) 477-0710
info@mcjmedia.com

(ISC)² ANNOUNCES ASSOCIATE PROGRAM TO PROVIDE EARLY SUPPORT FOR INFORMATION SECURITY CAREERS

*Initiative Designed for Candidates Who Pass CISSP or SSCP
Exams Yet Require Professional Experience for Certification*

VIENNA, Va., June 18, 2003 – The International Information Systems Security Certification Consortium ((ISC)²), a non-profit organization dedicated to qualifying and certifying information security professionals worldwide, today announced an Associate of (ISC)² program for those who pass the Certified Information Systems Security Professional (CISSP®) or Systems Security Certified Practitioner (SSCP®) exams without the experience required for certification.

Upon passing either exam, the Associate of (ISC)² will possess an independent and objective measure of competence and be introduced to the rigors and ethics of the profession through their association with the consortium. The exams test a candidate's understanding of the CBK™, (ISC)²'s living compendium of information security "best practices."

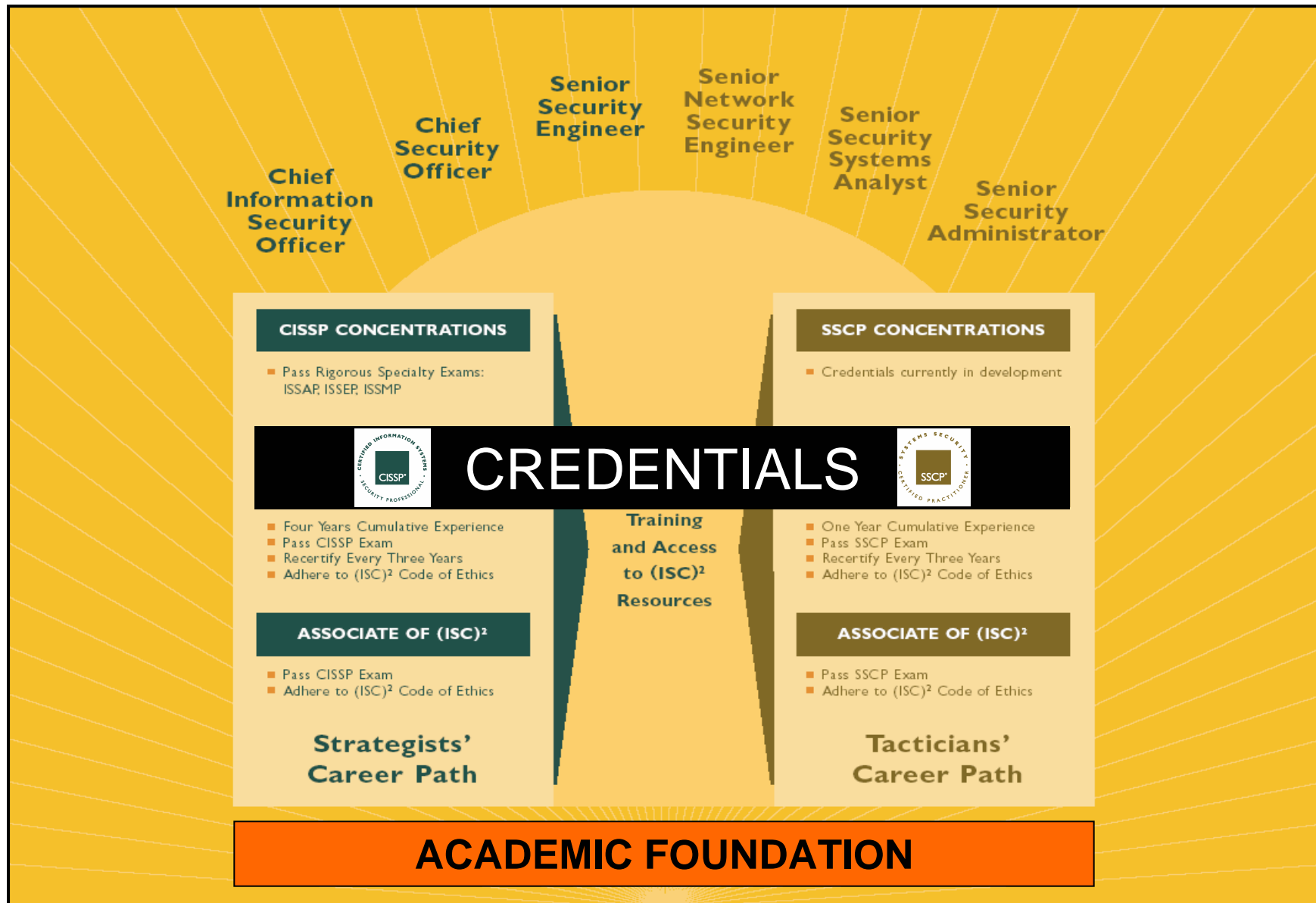
"The Associate program is designed to accelerate the professional growth of practitioners worldwide by encouraging individuals entering the field to be formally trained, pass a rigorous exam, and subscribe to (ISC)²'s Code of Ethics as early as possible in their careers," said James E. Duffy, CISSP, executive director of (ISC)² based in Vienna, Va.

000000



28

(ISC)² Career Path – “Concentrations”

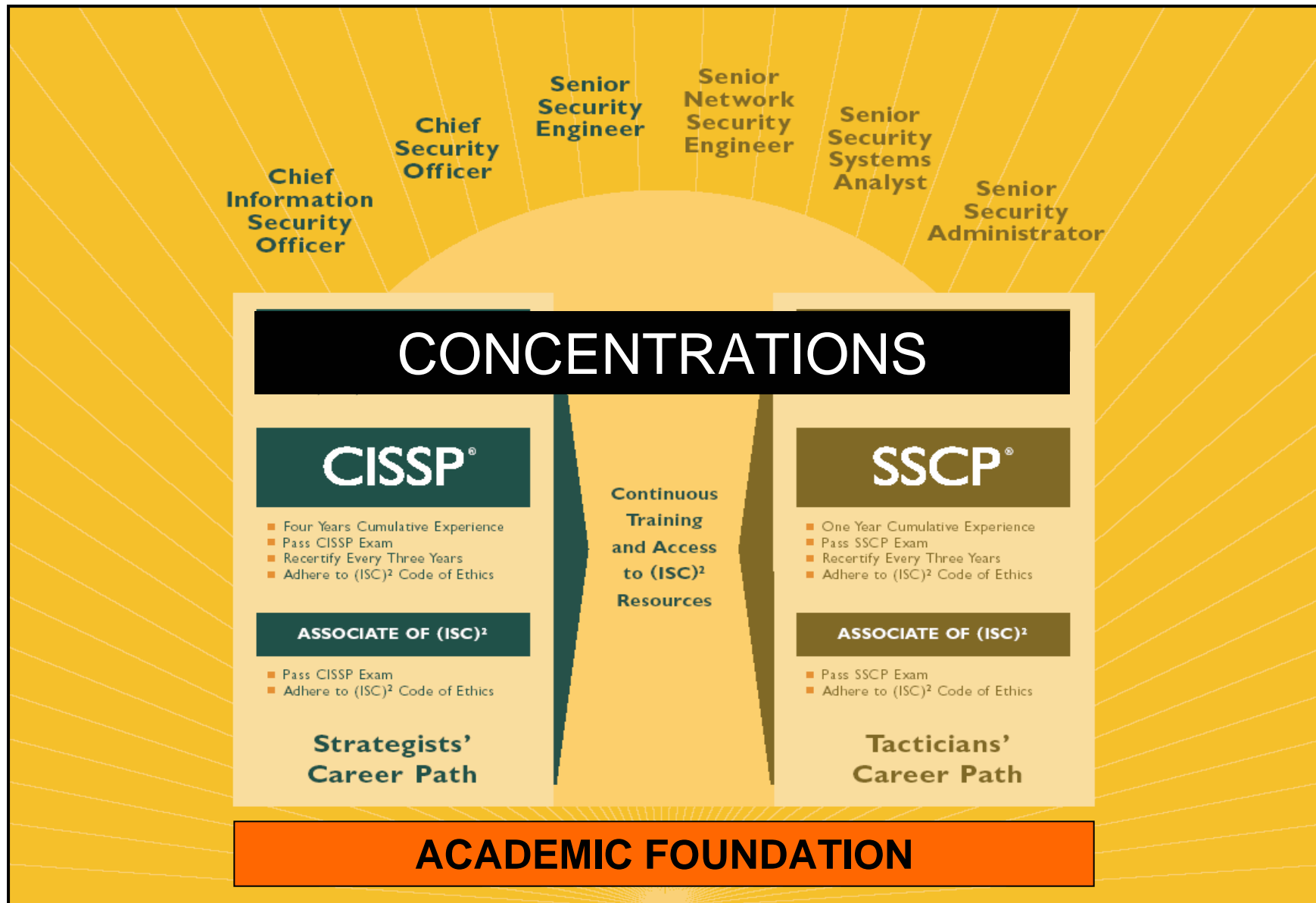


(ISC)² Credentials

	CISSP®	SSCP®
Professional Experience	4 Years	1 Year
Experience Waivers	Yes	No
Examination	250 Questions	125 Questions
(ISC)² Code of Ethics	Yes	Yes
Endorsement Process	Yes	No
Continuing Education	Yes	Yes
Concentrations	Yes	No



(ISC)² Career Path – “Concentrations”



(ISC)² Certification Concentrations

CISSP ARCHITECTURE
CONCENTRATION

CISSP ENGINEERING
CONCENTRATION

CISSP MANAGEMENT
CONCENTRATION

- CISSP® Concentrations
 - Information Systems Security Architecture Professional (ISSAP^{CM})
 - Information Systems Security Engineering Professional (ISSEP^{CM})
 - Information Systems Security Management Professional (ISSMP^{CM})
 - Others (TBD)
- SSCP® Concentrations (TBD)



32

Overview



- (ISC)² – *About Us*
- **Trust** – *The Ultimate Firewall*
- **Professional Certifications** – *The Gold Standards*
- **Career Path** – *Cradle-to-Grave for INFOSEC Professionals*
- **Industry Support** – *The Professional, The Employer, and The Profession*
- **CISSPs/SSCPs** – *Around the World*
- **Next Steps**



Implications for (ISC)²

- ***Our Offerings*** of Training, Credentials, Concentrations, Publications, and Services...
- ***MUST anticipate and support the needs of...***
- A widening range of ***Individual Professionals***, their ***Employers***, and the ***Profession*** itself.



Professional Offerings – “The Professional”



- **Credentials** – The “Gold Standards”
 - Certified Information Systems Security Professional (CISSP®)
 - System Security Certified Practitioner (SSCP®)
- **Concentrations** – in depth specialized credential enhancements
 - CISSP
 - Information Systems Security Architecture Professional (ISSAP^{CM})
 - Information Systems Security Engineering Professional (ISSEP^{CM})
 - Information Systems Security Management Professional (ISSMP^{CM})
 - SSCP – As required

 **ARCHITECTURE**
CONCENTRATION

 **ENGINEERING**
CONCENTRATION

 **MANAGEMENT**
CONCENTRATION



35

Professional Offerings – “The Professional”



- **Training**

- (ISC)² CBK® Review Seminars
 - Certified Information Systems Security Professional (CISSP®)
 - System Security Certified Practitioner (SSCP®)
- CISSP Concentrations
 - Information Systems Security Architecture Professional (ISSAP^{CM})
 - Information Systems Security Engineering Professional (ISSEP^{CM})
 - Information Systems Security Management Professional (ISSMP^{CM})
- SSCP Concentrations
- Associate of (ISC)² - pre-certification training/education

Coming
Soon!

NEW!

Coming
Soon!



36

Professional Offerings – “The Professional”

- **Constituent Services**

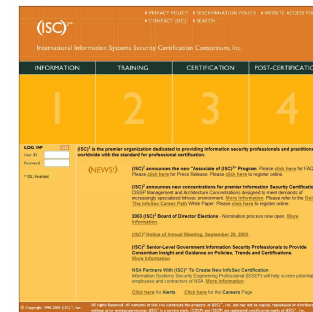
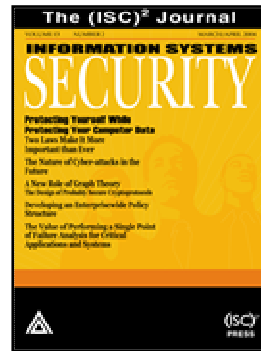
- CISSP®/SSCP® Forums

- (ISC)² Journal

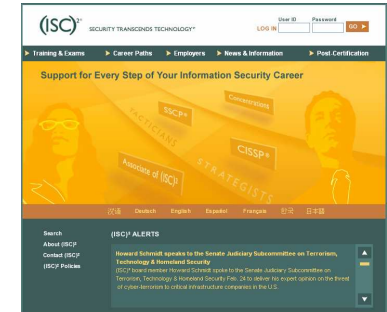
- (ISC)² Newsletter

- (ISC)² Website

- 2004 Resource Guide



(ISC)² Website (Old)



(ISC)² Website (New)



(ISC)² Newsletter



- Contributions to the Profession and Professional Affiliations (including other Certifications)

- Constituent Advancement and Support



Professional Offerings – “*The Employers*”

- Planning Support for Employers and Groups
- Special Packaging of Training and Credentials
- Special Credentials and Exams
 - CISSP® ISSEP^{CM} Concentration (developed in conjunction with U.S. National Security Agency (NSA))
 - Others (TBD)
- Employer Job Postings on website
- Employee Resume Postings on website

 **ENGINEERING**
CONCENTRATION



Professional Offerings – “The Profession”

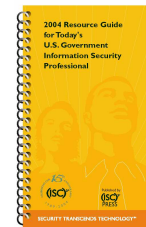
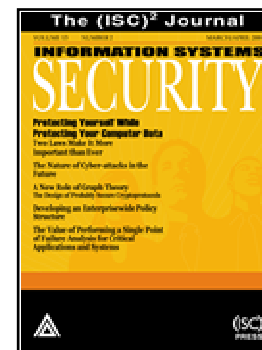
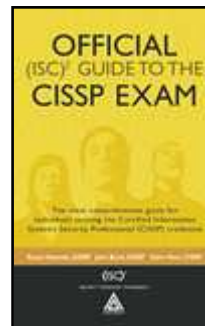
- **(ISC)² Press**

- “Official (ISC)² Guide to the CISSP® Exam”
- “Official (ISC)² Guide to the SSCP® Exam”
- (ISC)² Journal
- “2004 (ISC)² U.S. Government Resource Guide”

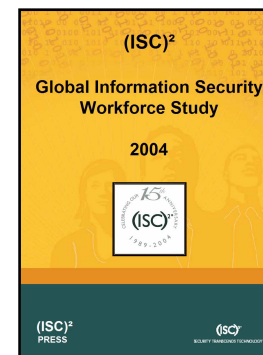
- **Industry Advisory Groups**

- U.S. Government Advisory Board (GAB) – Jun 2003
- European Advisory Board (EAB) – Mar 2004
- Asian Advisory Board (ASAB) – Jul 2004
- Americas Advisory Board (AMAB) – Jul 2004

- **(ISC)² Global Information Security Workforce Study**



(ISC)² European Advisory Board



39

Overview

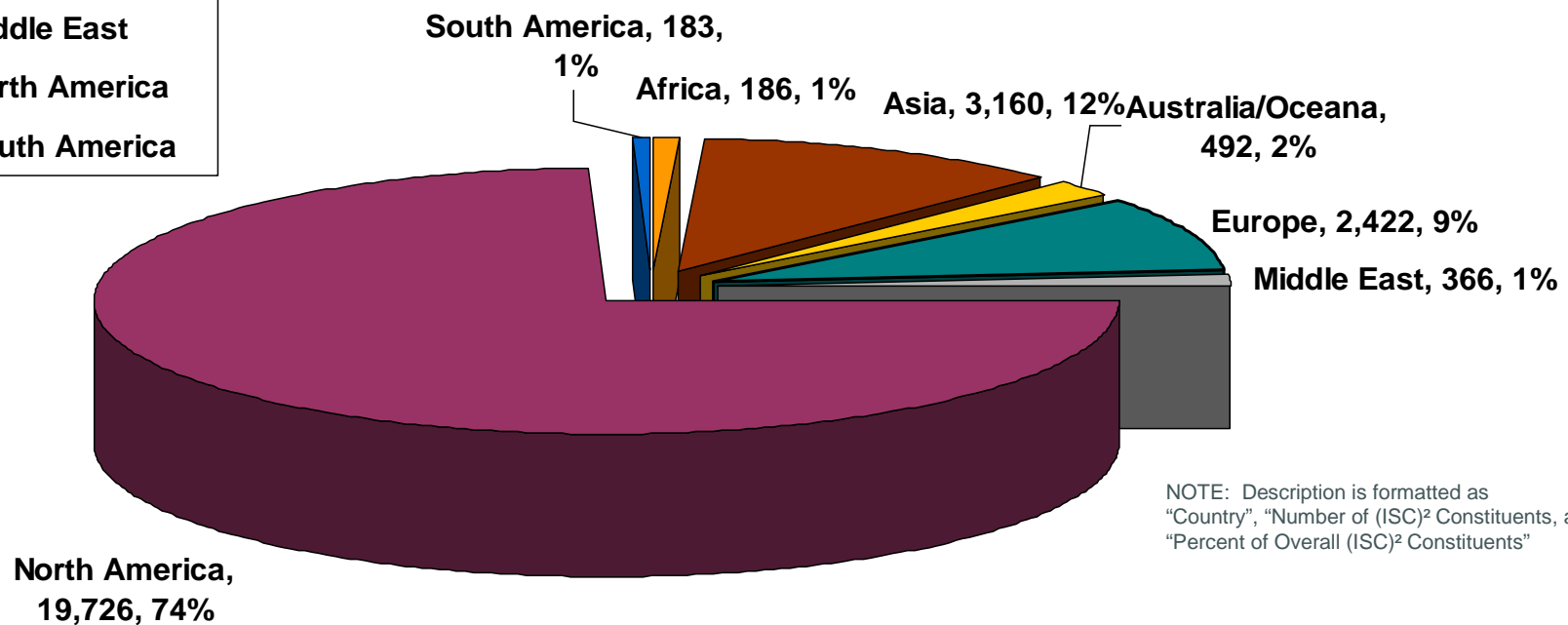


- **(ISC)²** – *About Us*
- **Trust** – *The Ultimate Firewall*
- **Professional Certifications** – *The Gold Standards*
- **Career Path** – *Cradle-to-Grave for INFOSEC Professionals*
- **Industry Support** – *The Professional, The Employer, and The Profession*
- **CISSPs/SSCPs** – *Around the World*
- **Next Steps**



(ISC)² Around the World – “Constituents by the Numbers”

As of: 06/30/04



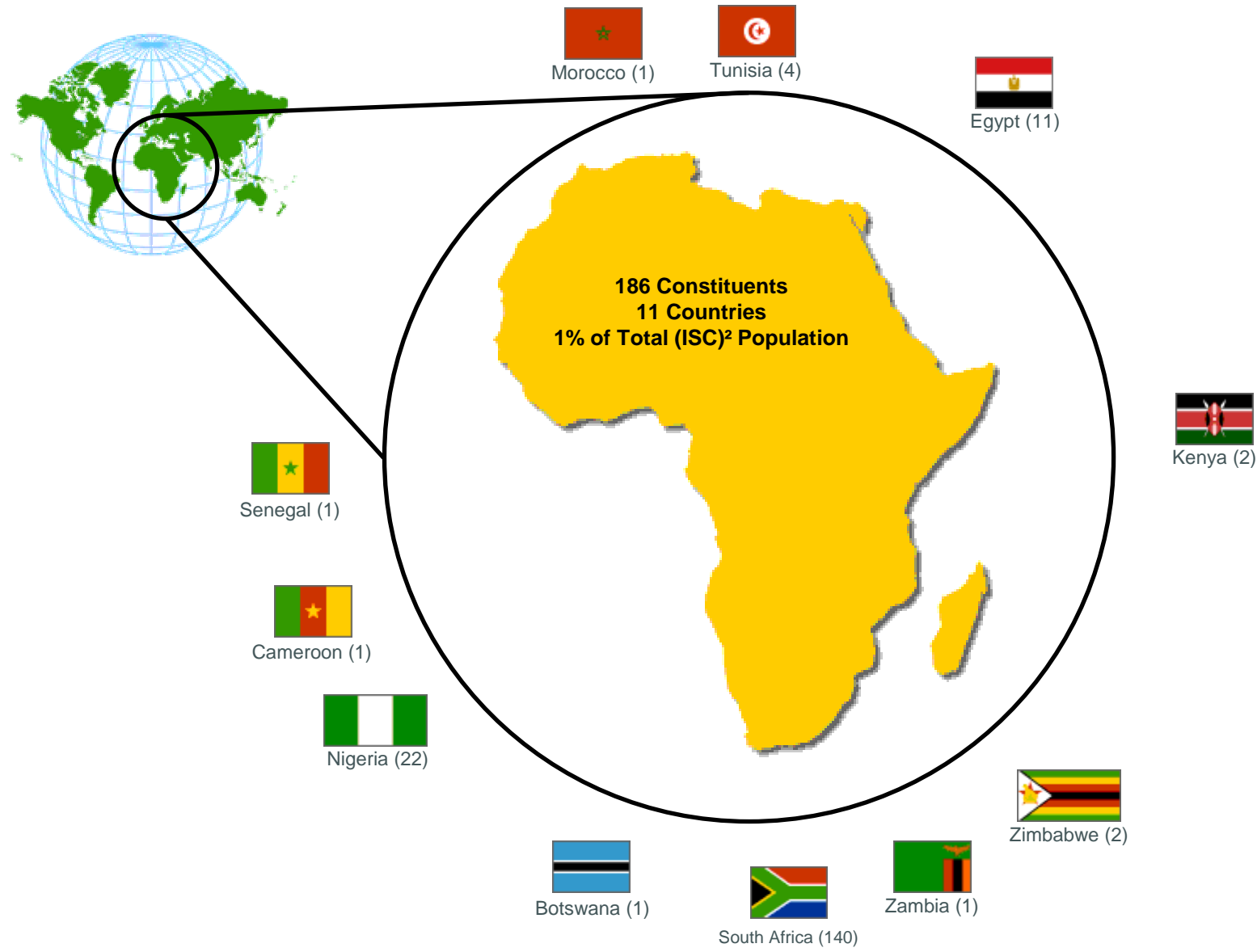
NOTE: Description is formatted as
“Country”, “Number of (ISC)² Constituents, and
“Percent of Overall (ISC)² Constituents”

26,553 Certified and 1,091 in Endorsement/Audit
68% of Constituents Reside in United States
32% of Constituents Reside in Rest of World



Constituents Around the World - Africa

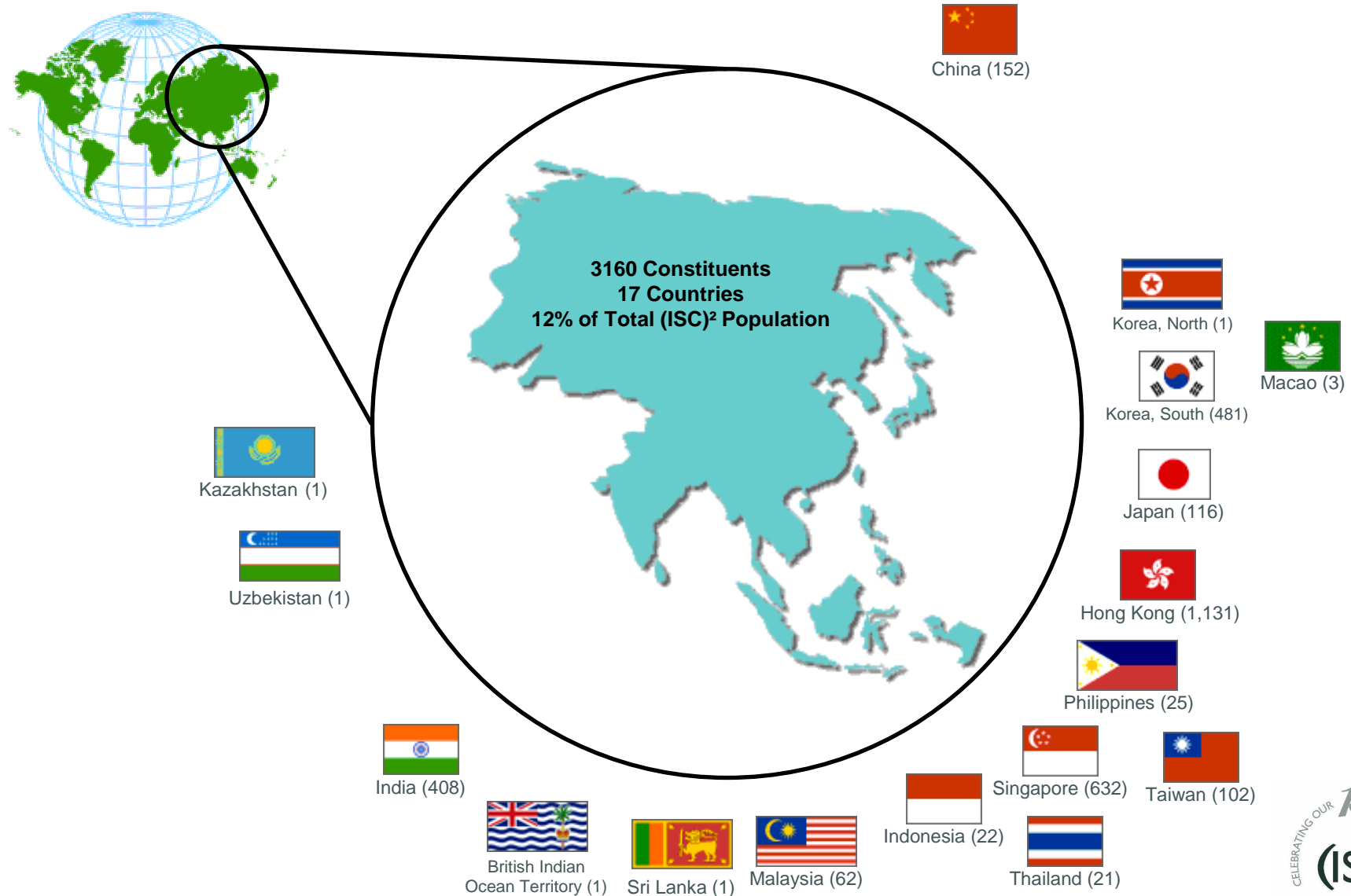
As of: 06/30/04



42

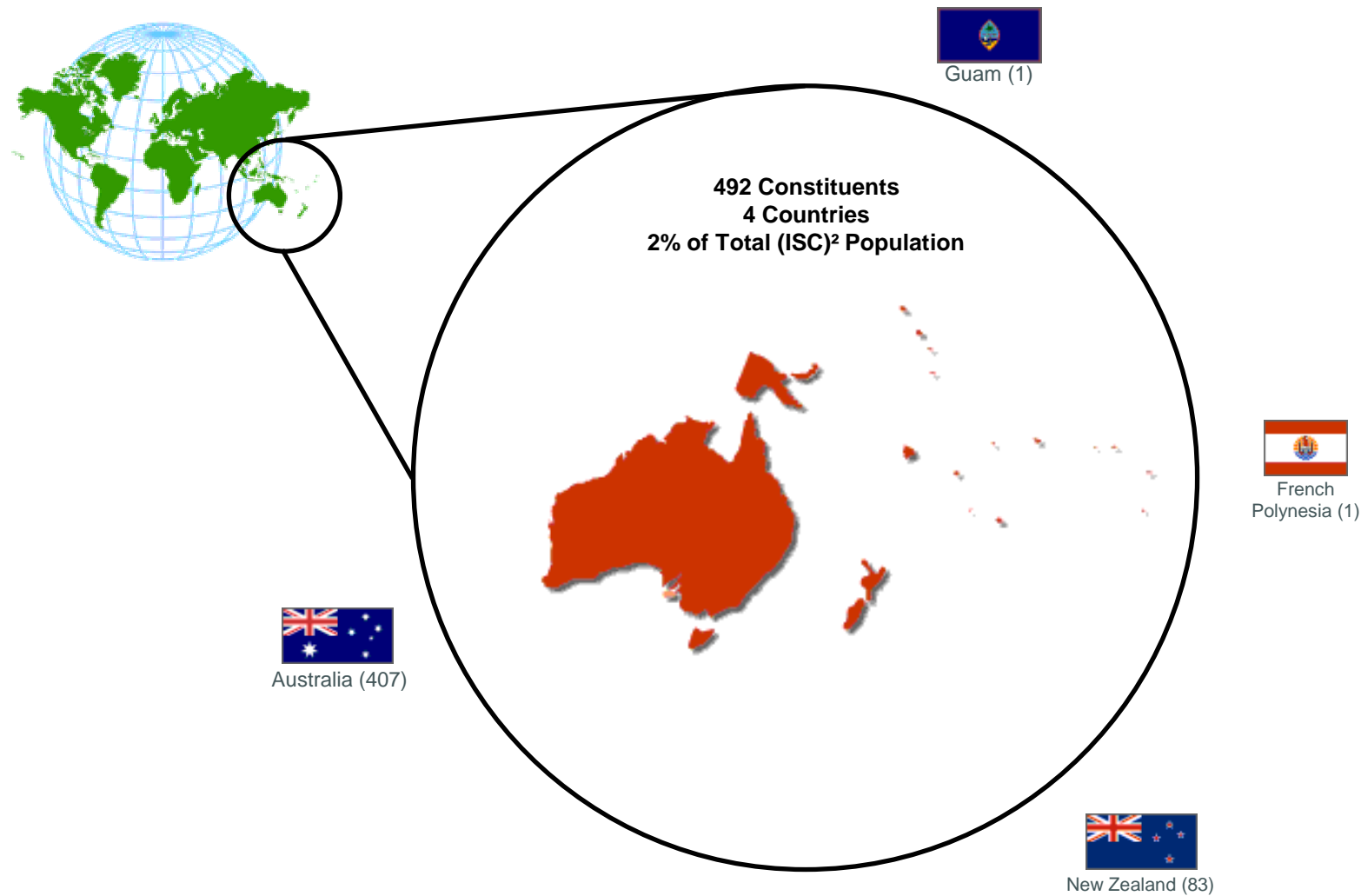
Constituents Around the World - Asia

As of: 06/30/04



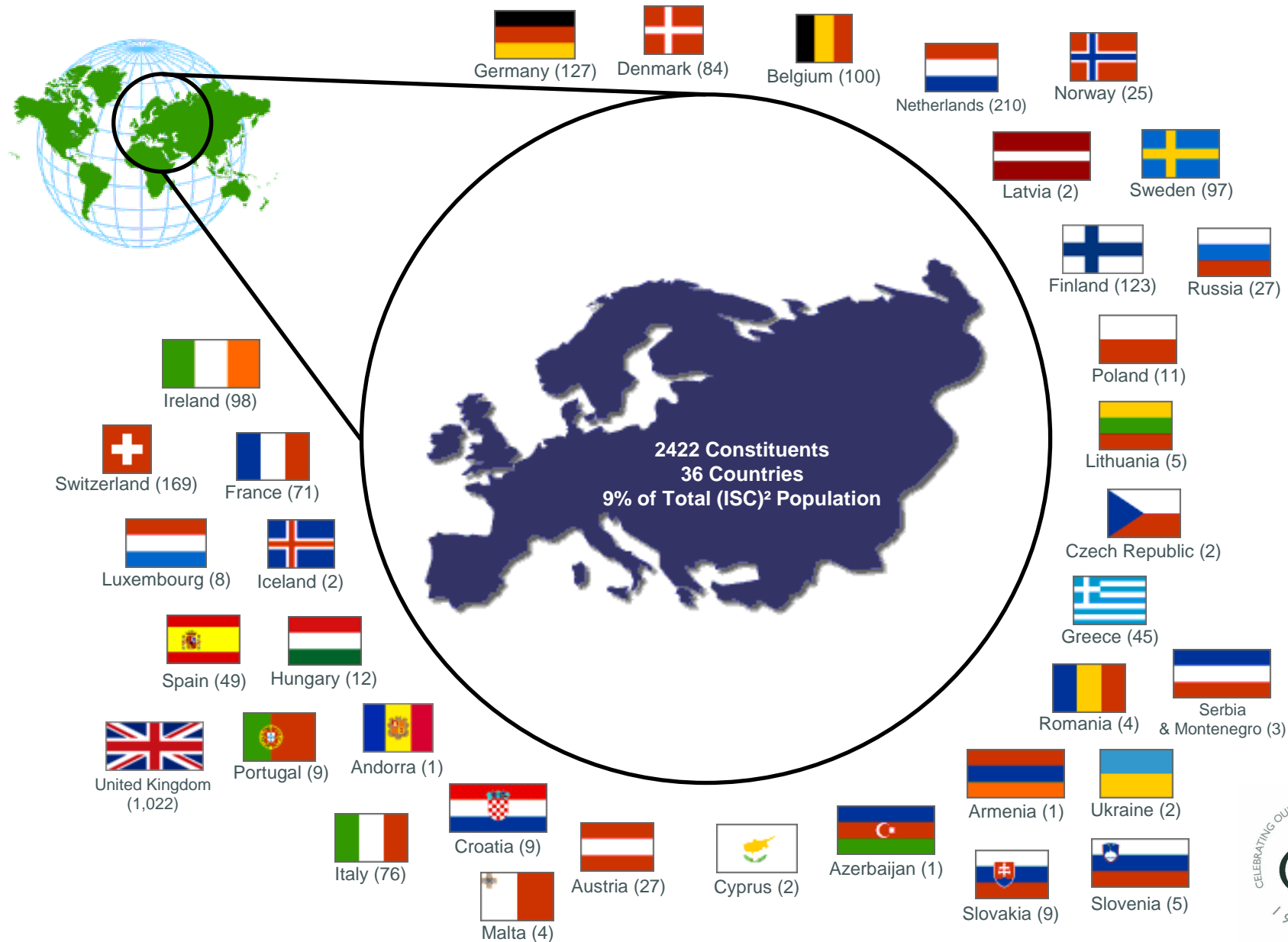
Constituents Around the World – Australia/Oceania

As of: 06/30/04



Constituents Around the World - Europe

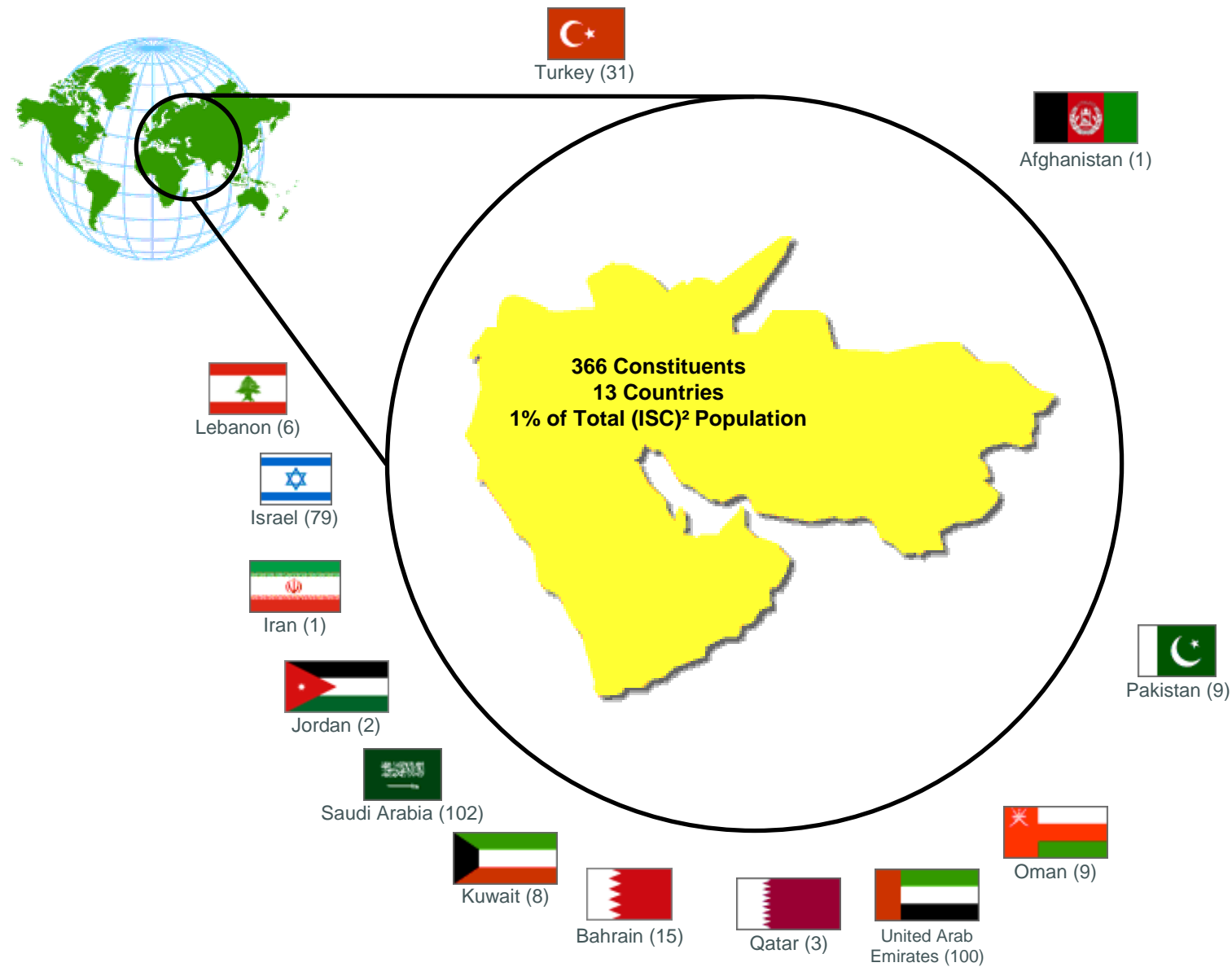
As of: 06/30/04



45

Constituents Around the World – Middle East

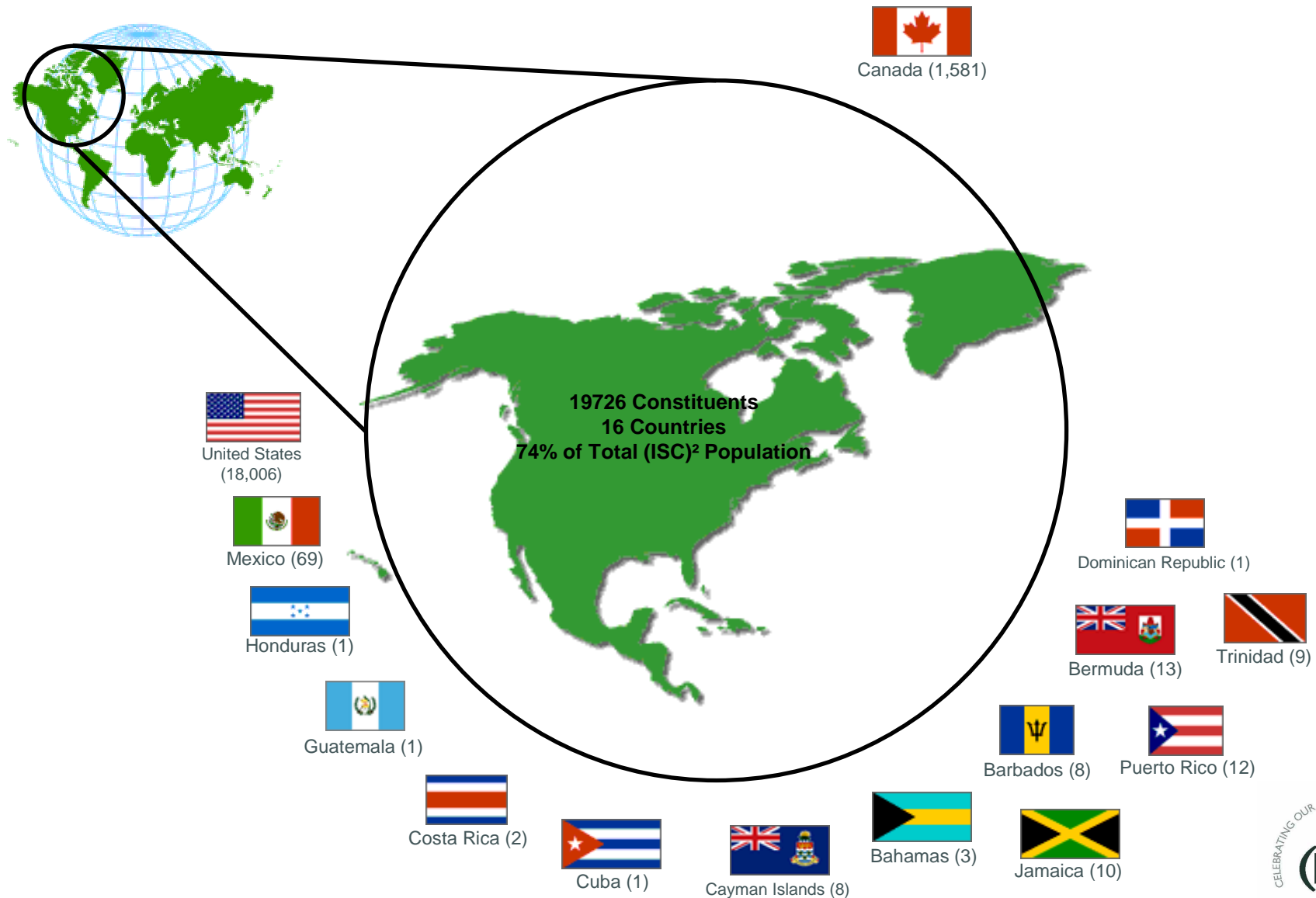
As of: 06/30/04



46

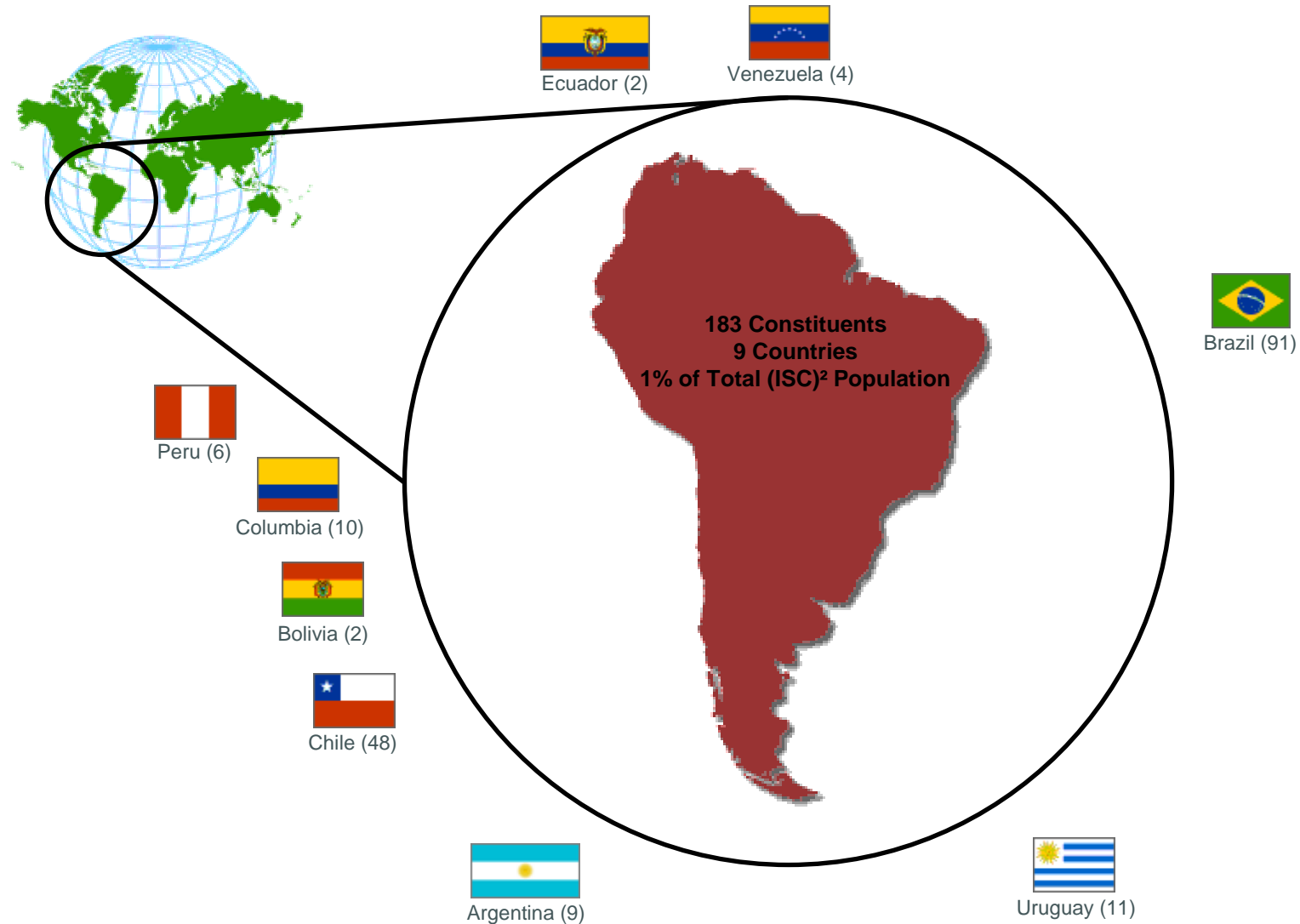
Constituents Around the World – North America

As of: 06/30/04



Constituents Around the World – South America

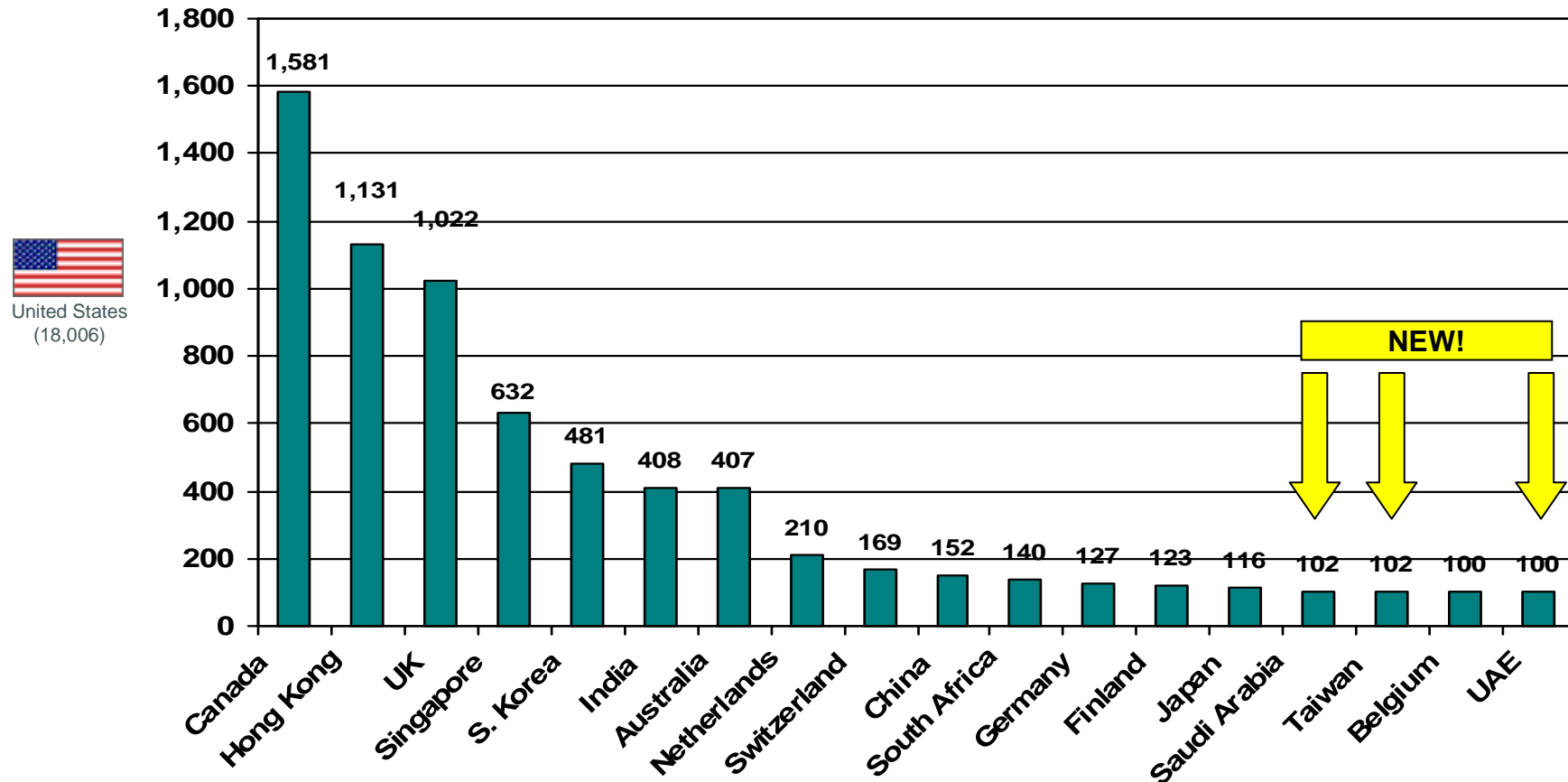
As of: 06/30/04



48

Countries with 100+ Constituents

As of: 06/30/04



5 Countries with 500+ Constituents
18 Countries with 100+ Constituents
106 Countries with Constituents



Overview



- **(ISC)²** – *About Us*
- **Trust** – *The Ultimate Firewall*
- **Career Path** – *Cradle-to-Grave for INFOSEC Professionals*
- **Industry Support** – *The Professional, The Employer, and The Profession*
- **Professional Certifications** – *The Gold Standards*
- **CISSPs/SSCPs** – *Around the World*
- **Next Steps**



2004 – “A Look Ahead”



- Increase rigor of CISSP® – ANSI/ISO 17024
- Achieve Sarbanes/Oxley compliance
- Improve Constituent Services & Communications
- Additional Concentrations
- Grow participation in (ISC)² Academic Partnership Program
- Dramatically increase constituents Internationally





“Security Transcends Technology”

(ISC)²®

SECURITY TRANSCENDS TECHNOLOGYSM