Defence iQ
a division of IQPC **PRESENTS**

CYBER SECURITY 2011

VENUE: Le Plaza, Brussels, Belgium
MAIN TWO-DAY CONFERENCE: 31st May and 1st June 2011
PRE CONFERENCE WORKSHOPS: 30th May 2011

Protecting Critical National Infrastructure from the Cyber Threat

Conference highlights will include:

→ Gain an insight into the **serious threats and IT incidents that governments are facing** and learn how to **monitor, analyse, detect and respond to cyber attacks** and unauthorised activities within your network

→ Understand how nations such as the **United Kingdom, Germany, Sweden, Denmark and Norway** are improving their national cyber security through improved working **relationships with private sector companies such as BT and Barclays**

→ Hear the latest **legal trends in cyberspace** arising from international incidents such as **Stuxnet and Conficker** and what they have meant for the rules surrounding aspects such as **data exchange, attribution, early warning and self-defence**

WORKSHOP: 30th May 2011: 14:00 – 17:00

CLOUD COMPUTING FOR THE 'EDGY'

Led by: Mary Ann Malloy, Principal Information Systems Engineer, The MITRE Corporation

Expert Speakers from across the world:

Paul Collacott, Deputy Director, Cyber Policy, GCHQ

Dr Michael Pilgermann, Section IT 3 - IT-Security, Federal Ministry of the Interior, Germany

Thomas Kristmar, Head of Danish GovCERT

Malin Fylkner, Senior Advisor, Swedish Civil Contingencies Agency

Michael Boyer, Director, RCERT Europe, US Army

Dr. Christophe Birkeland, Director of NorCERT, Norwegian National Security Authority

Dr Robert Nowill, Director of Cyber Security, BT

Tim Hind, Global Head of Intelligence, Barclays Global Retail Bank (Technology)

Don Proctor, Senior Vice President, Cisco Systems

John Bumgarner, Chief Technologist, US Cyber Consequences Unit

Gregory Radabaugh, Technical Director, Cyber Analysis Squadron, US Air Force

Christopher Richardson, Burnham Lecturer, Defence College of Communications and Information Systems, UK MoD

Eneken Tikk, Legal and Policy Branch Chief, CCD COE

Dr. Steve Purser, Head of Technical and Competence Department, ENISA

Michael Corcoran, Acting Head, MoD Cyber & Influence S&T Centre, UK MoD

Geoff Harris, Management Counsel, Information Systems Security Association (ISSA) – UK

Russell Buchan, School of Law, University of Sheffield

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Now in its second year, Cyber Security 2011 is Europe's leading cyber security conference. The event brings together the key actors involved in securing a nation's critical national infrastructure from a cyber attack including international organisations, national cyber security departments, CERT teams and private companies responsible for aspects of critical national infrastructure. With an expert crowd, this is your chance to leverage the global expertise of the cyber security community to assist in the major challenges facing your organisation such as the monitoring, detection and response to cyber attacks within your network.

PRE CONFERENCE WORKSHOP
MONDAY 30TH MAY 2011

14:00 – 17:00 CLOUD COMPUTING FOR THE 'EDGY'
Led by: Mary Ann Malloy, Principal Information Systems Engineer, The MITRE Corporation

Introduction:
"Edgy" means nervous! And a lot of us are really nervous about the risks we've heard come along with cloud computing. But an "edge" is also "a boundary condition," and in a cyber context, "edge users" are those who are at the boundary or limit of what the solution can handle. In other words, they have requirements that go beyond "typical user" profiles. As public sector and government organisations continue to move into the clouds, you have to ask the question, 'Which aspects of cloud computing make sense for your organisation?' Particularly for your "edge users" in light of their special requirements.

In this workshop, participants will evaluate:
• The state of cloud computing practice; Alternative paths into the clouds with use cases
• Edge user requirements, including security and privacy risks; What can be done to mitigate them
• How to gauge your organisation's "cloud readiness"
• How to use checklists and worksheets (provided) to profile users, establish migration plans and investment roadmaps

This will allow you to fully and properly assess which aspects of cloud computing are best suited to your organisation and its needs.

DAY ONE AGENDA
TUESDAY 31ST MAY 2011

| 8.30 | Registration and Coffee |

09.00 Chairman's Welcome and Opening Speech
Geoff Harris, Management Council, Information Systems Security Association (ISSA) - UK

09: 10 CYBER SECURITY – UK GOVERNMENT COMMUNICATIONS HEADQUARTERS ACTIVITIES AND ROLES IN THE DEFENCE OF UK INTERESTS
Paul Collacott, Deputy Director, Cyber Policy, GCHQ

09:50 CYBER SECURITY IN GERMANY – PROTECTING THE CRITICAL INFORMATION INFRASTRUCTURE
• Threat situation and need for action
• Shared responsibility: Strategies and objectives
• Implementation by engaging administration, industry and citizens
• How cyber security within Germany is likely to evolve in the future
Dr Michael Pilgermann, Section IT 3 - IT-Security, Federal Ministry of the Interior, Germany

| 10:30 | Networking Coffee Break |

11:00 NATIONAL RESPONSE PLAN FOR SERIOUS IT INCIDENTS: GUIDING PRINCIPLES FOR THE SWEDISH EMERGENCY MANAGEMENT SYSTEM
• What is considered a serious IT-incident?
• Roles and responsibilities
• Outline of the national response plan for serious IT incidents
Malin Fylkner, Senior Advisor, Swedish Civil Contingencies Agency

11:40 PREREQUISITES FOR STRONG NATIONAL COOPERATION ON CYBER SECURITY
• The sensitivity of incidents that take place on government or critical national infrastructure networks
• The problems that this causes for the exchange of information between the different actors in cyberspace
• How to overcome these concerns to create a culture of information exchange
Thomas Kristmar, Head of Danish GovCERT

12:20 BUILDING AN ARCHITECTURE OF TRUST - THE NETWORK'S ROLE IN SECURING CYBERSPACE
• This session provides an industry context for the market transitions occurring in cyber security, articulate the role of the network in defending our information and infrastructure, and offer a vision for how the network can enable a platform for innovation in cyber security going forward.
Don Proctor, Senior Vice President, Cisco Systems

| 13:00 | Networking Lunch |

14:00 ICT THREATS: HOW TO DETECT ATTACKS AND HANDLE INCIDENTS IN CLOSE COLLABORATION WITH THE PRIVATE SECTOR
• Examples of the serious threats that have targeted Norwegian critical national infrastructure
• Cyber espionage with targeted Trojans: Trends in technology and methods

• Cyber attacks, prevalent in all modern conflicts
• The use of a sensor network within critical national infrastructure for intrusion detection
• The success criteria for this sensor network
• International collaboration information exchange and trust
Dr. Christophe Birkeland, Director of NorCERT, Norwegian National Security Authority

14:40 COMPUTER NETWORK DEFENCE FOR THE US ARMY: MONITORING, ANALYSING, DETECTING AND RESPONDING
• Protecting the US Army's networks from cyber attack
• Monitoring the network for unauthorised activities
• Analysis and detection of cyber attacks
• Responding to a cyber attack against US Army networks
Michael Boyer, Director, RCERT Europe, US Army

| 15:20 | Networking Coffee Break |

15:50 THE EVOLVING THREAT IN CYBERSPACE: INFLUENCING YOUR BEHAVIOUR AND DECISION MAKING PROCESSES
• The current operational environment
• The evolving threat – How the adversary takes advantage of the operational environment
• The resulting consequences – How the threat will influence your behaviour and decision making processes
Gregory Radabaugh, Technical Director, Cyber Analysis Squadron, US Air Force

16:30 UNDERSTANDING THE 5TH DOMAIN'S VIRTUAL PLANE: AN EDUCATIONAL PERSPECTIVE TO THE COMPETENCES AND COMPLEXITIES OF CYBERSPACE
• Contextual awareness of cyberspace: The 5th domain
• Cyberspace Situational Awareness education
• Trains and planes of the 5th Domain
• Competences of the knowledge workers in cyberspace
• National occupational standards and an assurance framework
Christopher Richardson, Burnham Lecturer, Defence College of Communications and Information Systems, UK MoD

| 17:10 | Chairman's Close |

"Valuable; especially for gaining contacts"
Mike Corcoran, Cyber & Influence S&T Centre

"Very informative, useful and filled with country level design features"
Michael Boyer, RCERT Europe

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8.30   Registration and Coffee

09.00   Chairman's Welcome
Geoff Harris, Management Council, Information Systems Security Association (ISSA) - UK

09.10   COOPERATION IN SECURING CRITICAL NATIONAL INFRASTRUCTURE
- Introduction to ENISA and what we do
- ENISA's role in facilitating dialogue – Bridging public and private sectors
- The Critical Information Infrastructure Protection (CIIP) action plan
- Pan –European Exercises for resilience – Objectives and current status
- Engaging with ENISA – Opportunities and benefits
- The way forward

Dr. Steve Purser, Head of Technical and Competence Department, ENISA

09.50   A COMMUNICATIONS SERVICE PROVIDER'S PERSPECTIVE ON CYBER SECURITY: TECHNIQUES FOR IMPROVING CYBER DEFENCE
- The role of communications service providers in promoting cyber security
- Current challenges in providing security
- Working with those who use our services to improve cyber defence

Dr Robert Nowill, Director of Cyber Security, BT

10.30   Coffee and Networking Break

11.00   THE IMPACT OF THREATS ON A GLOBAL BANK AND CREATING A FEEDBACK LOOP ON CYBER SECURITY TO IMPROVE PROTECTION
- The common challenges and threats in securing a truly global network
- Efforts to share information on potential threats between banks
- Working with the government to create a feedback loop on cyber security

Tim Hind, Global Head of Intelligence, Barclays Global Retail Bank (Technology)

11.40   THE DIGITAL FLEECING OF OUR PHYSICAL WORLD: ANALYSING CYBER CRIME AND PROTECTING THE PUBLIC
- How prevalent is international cyber crime?
- How invasive are phishing and vishing operations?
- How do you protect the public on the Internet?
- How will cyber crime evolve in the future?

John Bumgarner, Chief Technologist, US Cyber Consequences Unit

12.20   Lunch and Networking

13.30   COMBATING THE INSIDER THREAT: PERSONNEL SCREENING, PROTECTIVE MONITORING TECHNOLOGIES AND FORENSIC READINESS
- Examples of high profile insider attacks and their impact
- How others have been prevented with the help of the police authorities and the greatly improved technical capabilities that they have now developed

- What measures should financial organisations be deploying to reduce the risk of being victims to such attacks?
- Personnel screening, protective monitoring technologies and forensic readiness as some of the key means by which to reduce the incidence of insider attacks

Geoff Harris, Management Counsel, Information Systems Security Association (ISSA) - UK

14.10   CYBER & INFLUENCE: THE WAY AHEAD FOLLOWING THE 2010 STRATEGIC DEFENCE & SECURITY REVIEW
- From a science and technology perspective
- Now a tier 1 risk (from National Security Strategy)
- SDSR cyber security aspects
- The cyber space domain
- Cyber space as an enabler of Influence
- Evolving science and technology priorities

Michael Corcoran, Acting Head, MoD Cyber & Influence S&T Centre, UK MoD

14.50   Coffee and Networking Break

15.20   THE '10 RULES' FOR LEGAL TRENDS IN CYBER SPACE, DERIVED FROM INTERNATIONAL INCIDENTS, INTERNATIONAL LAW AND STATE PRACTISE
- The rules surrounding aspects such as data exchange, attribution, early warning and self-defence
- The impact of international incidents such as Stuxnet, Conficker, Estonia and Georgia
- How these rules are likely to develop and efforts to create a rule of law in cyberspace

Eneken Tikk, Legal and Policy Branch Chief, Cooperative Cyber Defence Centre of Excellence (CCD CoE)

16.00   THE APPLICATION OF INTERNATIONAL LAW AND THE USE OF FORCE TO THE STUXNET VIRUS: IRAN 2010
- An overview of the Stuxnet virus that was deployed against Iran in 2010
- Did the Stuxnet virus constitute an unlawful use of force against Iran for the purpose of Article 2(4) the United Nations Charter?
- Did the Stuxnet attack constitute an 'armed attack' for the purpose of Article 51 of the UN Charter, thus enabling Iran to lawfully use force in self-defence?
- The question of attribution: What if the Stuxnet virus was deployed against Iran by a non-state actor? Is Iran able to use armed force under Article 51 of the UN Charter to defend itself against a non-state actor?

Russell Buchan, School of Law, University of Sheffield

16.40   Closing Remarks and End of Conference

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Hotel Le Plaza, Boulevard Adolphe Max 118-126, 1000 Bruxelles, Belgium

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