D 6.2 – Cyber Terrorism
Preliminary Best Practices Analysis

Date of deliverable: 31/05/2015
Actual submission date: 28 / 05 /2015

Start date of the Project: 1st June 2014
Duration: 24 months
Coordinator: UNICA – University of Cagliari, PRA Lab - Pattern Recognition and Applications Lab
Version: 1.1

| Project funded by the European Commission Directorate-General Home Affairs |
| in the Prevention of and Fight against Crime Programme |

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Summary:

Focused on cyber terrorism, this deliverable has been divided into two releases: a preliminary best practices analysis (D6.2) and a final best practices analysis document (D6.3).

The first release will examine the state of public-private collaboration between different sectors, such as research and development, education and awareness or resilience initiatives. The focus will be to respond to the following question: what are the best practices, standards and frameworks that can be underlined to face complex scenario of multiple initiatives from cyber terrorism?

Upon the completion of the preliminary document, it will emerge a final version with the inclusion of the result of a survey, giving us the opportunity to identify any gaps between current knowledge, thus to draw conclusions and recommendation toward a set of best practices.

Keywords: best practices, cyber terrorism, counterterrorism, use of internet
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INTRODUCTION

Starting in the 19th century, the rise of modern infrastructure systems has been increasing exponentially, assuming key roles for the economy and security of nations, particularly in the most developed ones. More recently, the increasing dependency on the Internet has brought heightened concerns about societies vulnerability to a relatively new form of risk - cyber terrorism.

Terrorists use cyberspace as a target, a weapon and also as a resource. As a target, terrorist activities are aimed at the Internet itself, its infrastructure and content (hardware and software), as well as anyone who uses the Internet in their daily lives. As a weapon, attacks are committed against physical targets (typically critical infrastructures) using Internet resources, to produce real physical impact (i.e., damage to assets and/or death of human victims). As a resource it provides terrorists with a wide range of possibilities and applications, namely, propaganda, communication, command & control, and intelligence.

This document focuses on the best practices developed and used by different leading private and public entities to counter these terrorist cyber activities, in particular Security & Defence organizations that work in counterterrorism.

Within the scope of this analysis we adopted the view of best practices presented by NATO:

“A best practice is a method or technique that has consistently shown results superior to those achieved with other means. It usually becomes a benchmark or standard way of doing things that multiple organizations can use. Effective practices exist at organizational, sector, national and international levels for many things, including interoperability, safety, and security. There are pockets of excellence that could be leveraged to minimize the duplication of effort and maximize security postures.” (NATO SfPS, 2014)

In document D5.2 of CyberROAD a more detailed discussion and definition of Best Practice is presented.

Since Cyber Terrorism is a specific domain within the more vast range of possibilities used by terrorists for centuries, it is important to mention that this D6.2 document will not refer to general counterterrorism best practices, except if they address the topic at hand.

A last note must be made on the existing limitation to directly refer to classified information, which includes most of the official documents of national and international security and intelligence agencies, discussing counterterrorism operational procedures and best practices (including in the cyber domain).
2 Methodology

The work of Task 6.2 was done in close coordination with the work of Task 6.1, to ensure that the research and survey efforts were shared as much as possible.

This research was conducted using public open source documents complemented with inside classified information of the subject. All documents are unclassified and openly available for viewing (unless stated otherwise). References used for the analysis of the topics were found via the Internet. Examples of works cited are unclassified government documents found on government websites using search terms related to the topics. Internationally distributed newspapers were also used to support the construction of this report. Other valid and reliable sources used in collecting data were government websites for agencies such as the Federal Bureau of Investigations, Europol, ENISA, NATO, etc. Additional research was pursued utilizing college and university websites that posted studies of similar matters. Furthermore, books written by experts were examined and relevant information was extracted to reinforce the views within this text.

Task 6.2 will also use the results of the surveys of Tasks 5.1 and 6.1, related to Best Practices dealing with cyber terrorism, which were submitted to national stakeholders that partners considered appropriated in the respective Member States.

Ultimately, after gathering, collecting and analysing data from all the above mentioned sources and finding the gaps between current knowledge and possible new phenomena, it will be possible to draw conclusions and recommendations related to best practices (to be done in deliverable 6.3).

3 Current Best Practices Analysis

Terrorism, in all its manifestations, affects us all. The use of the Internet to further terrorist purposes disregards national borders, amplifying the potential impact on victims. In this section, we elaborate on the state of the art for best practices to counter cyber terrorism at: leading International Organizations, within the European Union, and also applicable international standards and frameworks that could be of use.

It is worth mentioning that several countries around the world created specific departments exclusively dedicated to combat cyber terrorism (ex: the Cyberterrorism Defense Analysis Center [CDAC] within the US Department of Defense Cyber Command [USCYBERCOM]). Almost all information related to these entities is classified and for this reason they are not mentioned in this report.
3.1 INTERNATIONAL ORGANIZATIONS

3.1.1 NATO – NORTH ATLANTIC TREATY ORGANIZATION

NATO’s essential purpose is to safeguard the freedom and security of its members through political and military means. In November 2002, at the Prague Summit, NATO leaders initiated a new NATO Cyber Terrorism Program in order to strengthen its capabilities to defend against cyber attacks. This NATO Program involves various NATO’s structures:

<table>
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<th>NATO</th>
<th>NATO’s structures involved:</th>
<th>Acronym</th>
<th>Tasks</th>
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<td><strong>Cyber Terrorism Program (2002)</strong></td>
<td>Communication and Information Systems Services Agency</td>
<td>NCSA</td>
<td>First line defence against Cyber attacks</td>
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<td></td>
<td>NATO INFOSEC Technical Center</td>
<td>NITC</td>
<td>Responsible for communication and computer security</td>
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<td></td>
<td>NATO Information Assurance Operations Centre</td>
<td>NIAOC</td>
<td>Responsible for Management and coordination of cryptographic equipment in response to a cyber attack against NATO</td>
</tr>
<tr>
<td></td>
<td>NATO Computer Incident response Capability</td>
<td>NCIRC</td>
<td>Task 0 protect the NATO encrypted communications systems</td>
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Table 1: NATO Program against cyber terrorism

On April 2008, in response to Estonia attacks in 2007, NATO defined a Policy on Cyber Defence, established at the Summit held in Bucharest, and created the NATO Cyber Defence Management Authority (CDMA). NATO leaders also agreed with the creation of the NATO Cooperative Cyber Defence Center of Excellence (CCD-CoE), based in Tallinn, who’s mission and vision is “to enhance the capability, cooperation and information sharing among NATO, NATO nations and partners in cyber defence by virtue of education, research and development, lessons learned and consultation” and to be “the main source of expertise in the field of cooperative cyber defence by accumulating, creating, and disseminating knowledge in related matters within NATO, NATO nations and partners”1 (CCD-CoE).

NATO has sponsored several studies and programs that have produced guidelines and listed best practices, that all entities and encouraged to follow. Two relevant examples are presented below, which are related to cybersecurity and cyber defence (and also relevant in the specific case of cyber terrorism):

**National Cyber Security Framework Manual**
NATO Cooperative Cyber Defence Centre of Excellence (CCD-CoE), 2012

“The 'National Cyber Security Framework Manual’ does not strive to provide a single universally applicable checklist of things to consider when drafting a national cyber security
strategy. Rather, it provides detailed background information and theoretical frameworks to help the reader understand the different facets of national cyber security, according to different levels of public policy formulation. The four levels of government – political, strategic, operational and tactical (technical) – each have their own perspectives on national cyber security, and each is addressed in individual sections.” (CCD-CoE)

Best Practices in Computer Network Defense: Incident Detection and Response

“An Advanced Research Workshop (ARW) entitled, ‘Best Practices in Computer Network Defense (CND): Incident Detection and Response’ was held from 11-13 September 2013 in Geneva, Switzerland, to exchange expert knowledge in cyber defence and discuss approaches and solutions to this emerging security challenge. Participants were selected from industry, academia, and public institutions, which have direct hands-on experience with and responsibilities for incident detection and response. In summary, twenty-one specific findings outlined how NATO member state and partners can improve their respective and collective cyber defense postures.” (NATO SfPS)

3.1.2 SPANISH CENTER FOR CYBERSECURITY IN INDUSTRIAL CONTROL SYSTEMS

The Spanish Center for Cybersecurity in Industrial Control Systems made a relevant effort targeted to assess good practices to diagnose cybersecurity in Industrial environments [CCI, 2014]. The report highlighted that there are not standard methods to assess the cybersecurity in ICS (Industrial Control Systems). Thus they propose a methodology with four main steps:

1) Preparation: this phase is oriented to elaborate a deep knowledge about the current environment.
2) Fieldwork: it implies to visit physically the facilities; the auditors will examine the target of evaluation. The objectives are: 1) Gathering information and 2) Verifying information.
3) Report development: after the previous phases the auditors will have tons of information that should be properly organized. At least the report should have an executive summary, current state and recommendations.
4) Presentation of results: In this phase the result will be presented avoiding technical terms to guarantee a good understanding of all the command echelons.

Furthermore these guidelines to assess cybersecurity in ICS, the report recommended some best practices to improve the technical aspects in cyber security for ICS. Some of these technical best practices are:

- Segmentation and filtering: the security areas should be identified and segmented by means of filtering devices able to control the traffic between two different zones.
- DMZ (Demilitarized Zone) for Operations: The communications between the corporative network (Email, ERP, etc.) and the industrial network will not be made directly, all the traffic will pass through DMZ network.
• Routing policy: Multihomed server will be avoided since they can serve as a bridge between different areas. All communications between networks should be made by routing devices able of filtering communications according to security policies as restrictive as possible.

• Separation of engineering and operation: Engineering worksations and operation should be in separate security zones to prevent security incidents in one of the areas from spreading to others.

• Specialized security hardware: the firewalls to split critical areas of the network should be able to understand the context of industrial control communication protocols.

• Coherent network addressing: the network addressing used in facility should be coherent with the rest of organization, avoiding public address in internal systems and to allowing a sensible growing.

3.1.3 UN – UNITED NATIONS

The United Nations (UN) has cybersecurity as one of its main themes in the traditional debates on security policy. The International Telecommunication Union (ITU), of the UN, also has potential responsibility in cybersecurity, by intending to develop confidence in the use of cyberspace by strengthening online security.

Several reports have been produced on this topic and one of the most relevant is the following:

The Use of the Internet for Terrorist Purposes

This document provide an overview of the means by which the Internet is often utilized to promote and support acts of terrorism, in particular with respect to: propaganda, training and financing, planning and executing such acts. It also presents the opportunities offered by the Internet to prevent, detect and deter acts of terrorism.

Considering counter-narratives and other strategic communications could be an effective means of disrupting the process of radicalization to extremist ideals, which may in turn be manifested through acts of terrorism; understanding of the broader issues underpinning radicalization is also important in engaging in constructive dialogue with potential recruits to a terrorist cause, and in promoting alternative, lawful means to pursue legitimate political, social or religious aspirations. Respect for human rights and the rule of law is an integral part of the fight against terrorism. In particular, Member States reaffirmed those obligations in the United Nations Global Counter-Terrorism Strategy, recognizing that “effective counterterrorism measures and the protection of human rights are not conflicting goals, but complementary and mutually reinforcing”. The effective implementation of a rule-of-law approach to countering the use of the Internet for terrorist purposes must be continually assessed during all stages of counter-terrorism initiatives, from preventive intelligence-gathering to ensuring due process in the prosecution of suspects. (UN, 2012);
3.1.4 **OECD – Organization for Economic Cooperation and Development**

The Organization for Economic Cooperation and Development (OECD) as guidelines for the Security of Information Systems and Networks, issued in 2002 by the Directorate for Science, Technology and Industry of OECD, which have become a reference for national and international cyber security actions. These guidelines are based on nine principles of safety culture:

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<tr>
<th>9 Principles of safety culture</th>
<th>Organization for Economic Cooperation and Development (OECD)</th>
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<tr>
<td>9 Principles of safety culture</td>
<td>Organization for Economic Cooperation and Development (OECD)</td>
</tr>
<tr>
<td>Awareness</td>
<td>Security of information systems and networks</td>
</tr>
<tr>
<td>Responsibility</td>
<td>Of all participants for the security of information systems</td>
</tr>
<tr>
<td>Response</td>
<td>Capacity to act on security incidents on timely and co-operative manner</td>
</tr>
<tr>
<td>Ethics</td>
<td>Respect the legitimate interests of other users and promotion of best practices</td>
</tr>
<tr>
<td>Democracy</td>
<td>Security measures should follow the democratic values</td>
</tr>
<tr>
<td>Risk Assessment</td>
<td>Broad assessment of threats and weaknesses</td>
</tr>
<tr>
<td>Security Design and implementation</td>
<td>Software designed from the ground to be up to be secure</td>
</tr>
<tr>
<td>Secure management</td>
<td>Involving all stakeholders at all levels, addressing threats as they appear</td>
</tr>
<tr>
<td>Reassessment</td>
<td>Continuous review, revision and modification of security measures as risks evolve</td>
</tr>
</tbody>
</table>

*Table 2: Nine Principles of Safety Culture*

More recently, the OECD has also sponsored work on terrorism risk and insurance markets (2012), which is a topic of growing relevance in the cyber domain.

3.1.5 **OSCE – Organization for Security and Co-operation in Europe**

The Organization for Security and Co-operation in Europe (OSCE) in the last decade has fomented the international cooperation and made a major effort to protect vital critical information infrastructures and networks from the cyber attacks. Directions were given to participating countries in order to strengthen the monitoring of terrorist and extremist
organizations webpages, and to exchange information with other governments in the OSCE, the monitoring of relevant forums, and suggested more involvement of the civil society institutions and the private sector in preventing and countering the use of internet for terrorist purposes.

3.1.6 COE – COUNCIL OF EUROPE

Council of Europe (CoE) signed the Convention on Cyber Crime, in November 2001 (only applied in July 2004), addressing cyber security threats and establishing common standards and procedures open to the Member States and others.

The CoE also introduced requirements for handling data and accessing it, due to the issues of privacy and civil liberties, that have became an important issue, that often conflicts with the actions to counter cyber terrorism.

3.1.7 G-8 – GROUP OF SEVEN PLUS EUROPEAN UNION

In line with the international cyber security policy, the G-8 created a Sub-group of High-Tech Crime to combat transnational organized crime, with the goal to “enhance the ability of the G-8 countries to protect, investigate and prosecute crimes committed using computers, network communications, and other new technologies”, including the use of internet by terrorists and the protection of critical information infrastructure. This G-8 sub-group has also been creating guidelines/best practice documents that could be implemented in other countries.\(^\text{ii}\)

3.2 EUROPEAN UNION INITIATIVES

Within the European Union many initiatives related to the topic of this report have been on going. The European Commission has backed studies and programs (most of the confidential – of which we mention one below), as well as several security projects. Of these, we highlight here The Clean IT project, on Reducing Terrorist Use of Internet, due to its relevance and impact.

Of relevance is also the work done by several think tanks and research teams. Without the possibility to analyse all the work done in the EU in this domain, we highlight in the following sections a relevant example of the work done by the SDA – Security & Defence Agenda, as well as two examples of relevant publications by European research teams, studying cyber terrorism and its countermeasures.

3.2.1 EC – EUROPEAN COMMISSION

*Study on Methodologies or Adapted Technological Tools to efficiently detect violent radical content on the Internet*
This confidential EU study was commissioned by the European Commission (2012) in order to make it easier for law enforcement authorities to counter the use of the Internet by terrorists. The study focuses on applications currently being used in the European Union for detecting online violent radical content. The best practices identified are intended to be disseminated among police forces in the EU.

**The Clean IT – Reducing Terrorist Use of Internet**

The Clean IT project started in June 2011 with the financial support of the European Commission and five government partners. It was the result of a structured public-private dialogue between government representatives, academics, Internet industry, Internet users and non-governmental organizations in the European Union. The project has the following objectives:

1. To start a constructive public-private dialogue about terrorist use of the Internet;
2. To draft a set of “general principles” that are supported by both public and private parties;
3. To identify “best practices” which, after possible modification, could in the opinion of the Clean IT participants contribute to a successful reduction of the impact of terrorist use of the Internet.

The ‘General Principles’, mentioned above, determine nine conditions for any action taken to reduce the terrorist use of the Internet.

In 2013, The Clean IT project has also put forward twelve best practices that could reduce terrorist use of the Internet in the EU. For each best practice, it has also been presented, the challenge that best practice is meant to overcome, what the best practice consists of, as well as more detailed explanations and considerations on the best practice.

As this emerged from a public-private dialogue, any future implementation can only be voluntary and according to existing laws and regulations.

**3.2.2 Research & Think-tanks**

**SDA – Security & Defence Agenda**

*Cybersecurity: The vexed question of global rules. An independent report on cyber preparedness around the world (SDA, February 2012)*

The Security & Defence Agenda (SDA) is Brussels’ only dedicated security and defence think-tank. Its activities include debates, international conferences and a range of publications.

The above mentioned report is made up of a survey of some 250 leading authorities worldwide and of interviews carried out in late 2011 and early 2012 with over 80 cyber-security experts in government, companies, international organisations and academia. It offers a global snapshot
of thinking about the cyber threat and the measures that should be taken to defend against it, and assesses the way ahead.

**CENTRIC – Centre of excellence in terrorism, resilience, intelligence & organised crime research, Sheffield Hallam University**

*Cyber Security Countermeasures to Combat Cyber Terrorism,*

*Strategic Intelligence Management, National Security Imperatives and information and Communications Technologies (Ahkgar & Yates, 2013)*

“This book is a collection of works from leading practitioners and academics concerned in the field of national security intelligence management. It introduces both academic researchers and law enforcement professionals to contemporary issues of national security and information management and analysis. It also explores the technological and social aspects of managing information for contemporary national security imperatives.”

One of the articles contains a list with a brief summary of the different categories of people involved and a brief analysis of their training needs. It also gives an extended list of countermeasures in order to promote a culture of cyber hygiene and vigilance, with people and organizations following security policies, using strong passwords, regularly applying security patches, and so forth, would make a cyber terrorist's work more difficult.

**The Cyberterrorism Project, Swansea University (UK)**

*Cyberterrorism: A Survey of researchers (March 2013)*

The Cyberterrorism Project was established at Swansea University, UK in 2011 by academics working in the School of Law, College of Engineering, and Department of Political and Cultural Studies.

“This report provides an overview of findings from a project designed to capture current understandings of cyber terrorism within the research community. The project ran between June and November 2012, and employed a questionnaire, which was distributed to over 600 researchers, authors and other experts, working in 24 countries across six continents.”

Concerning the most effective countermeasures against cyber terrorism, most respondents answered: target-hardening, greater international cooperation, refusing to exaggerate the threat, utilizing the same responses as for cyber crime, prevent radicalization. To the question concerning the differences to more traditional forms of counter terrorism, the most common answers were: same strategies with different methods, greater technical expertise required, greater role of private sector, greater role for individual citizens.
The European Union, with the support of ENISA, has started to include standards in its strategies and policies, but much remains to be done. The development and use of standards is necessary, timely, and requires the involvement of public and private sector actors working in tandem. (PURSER, 2014)

According to Cyber Security Strategy of the European Union (EU CSS), of 04/02/2013, to ensure a high level of security at the EU level, Members States were asked to support standardization in the area of Network and Information Security (NIS). The EU CSS contains the following:

“The importance of ‘commercial and non-governmental entities, involved in the day-to-day management of Internet standards’;

‘A prime focus should be to create incentives to carry out appropriate risk management and adopt security standards and solutions, as well as possibly establishing voluntary EU-wide certification schemes building on existing schemes in the EU and internationally’;

The Commission will support the development of ‘security standards and assist with EU-wide voluntary certification schemes in the area of cloud computing’.

Apart from the EU, there are also several relevant entities that regularly publish security standards and guidelines.

The NIST (USA) is a prime example: “The Computer Security Division’s (CSD) Computer Security Resource Center (CSRC) facilitates broad sharing of information security tools and practices, provides a resource for information security standards and guidelines, and identifies key security web resources to support users in industry, government, and academia.” (NIST)

Other examples include: the Australian Government, who published Strategies to Mitigate Targeted Cyber Intrusions; the British Standards Institute that published Cyber Security Risk – Governance and Management Specifications, and the European Energy Regulator (ENTSO-E European Network of Transmission System Operators for Electricity), who in its Network Code on Operational Security, recommends that operators define comprehensive organizational, logistical, and technical plans, with a particular attention to alert, detection, and restoration procedures.

4 CyberROAD Surveys

The use of surveys to receive up-to-date input, directly from stakeholder in the counter cyber terrorism domain, was considered of high relevance. To avoid duplication of efforts, task 6.2 will make use of the surveys developed within other tasks of WP5 and WP6.
4.1 WP5 Survey

Within Task T5.1, three surveys have been developed and are currently being processed, of which one has specific interest for T6.2. Details of the surveys are presented in D5.1

4.2 WP6 Survey

Within Task T6.1, one survey has been developed and is currently being processed, which has specific interest for T6.2. Details of this survey are presented in D6.1

4.3 Survey Results Analysis

The survey results analysis will be preformed soon and will be presented in the final report D6.3

5 Conclusions

The present D6.2 report is the preliminary version of the D6.3 report, which will include the analysis of the related CyberROAD surveys and the elaboration of final conclusions, based on all the available information that was gathered and processed.
6 Bibliography


SDA. (2012). *Cyber-security: The vexed question of global rules. An independent report on cyber-preparedness around the world*


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1 https://ccdcoe.org/about-us.html