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TASK FORCE REPORT:
Resilient Military Systems and the Advanced Cyber Threat

January 2013

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L Reisser

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   Task Force Report Department of Department of Defense,Defense Science Defense Science Board,Penny Hill Press,2015-12-04 After conducting an 18 month study this Task Force concluded that the cyber threat is serious and that the United States cannot be confident that our critical Information Technology IT systems will work under attack from a sophisticated and well resourced opponent utilizing cyber capabilities in combination with all of their military and intelligence capabilities a full spectrum adversary While this is also true for others e g Allies rivals and public private networks this Task Force strongly believes the DoD needs to take the lead and build an effective response to measurably increase confidence in the IT systems we depend on public and private and at the same time decrease a would be attacker s confidence in the effectiveness of their capabilities to compromise DoD systems This conclusion was developed upon several factors including the success adversaries have had penetrating our networks the relative ease that our Red Teams have in disrupting or completely beating our forces in exercises using exploits available on the Internet and the weak cyber hygiene position of DoD networks and systems The Task Force believes that the recommendations of this report create the basis for a strategy to address this broad and pervasive threat   **Task Force Report** United States. Defense Science Board. Task Force on Resilient Military Systems,2013   Task Force Report Department of Department of Defense,Defense Science Defense Science Board,2014-12-19 After conducting an 18 month study this Task Force concluded that the cyber threat is serious and that the United States cannot be confident that our critical Information Technology IT systems will work under attack from a sophisticated and well resourced opponent utilizing cyber capabilities in combination with all of their military and intelligence capabilities a full spectrum adversary While this is also true for others e g Allies rivals and public private networks this Task Force strongly believes the DoD needs to take the lead and build an effective response to measurably increase confidence in the IT systems we depend on public and private and at the same time decrease a would be attacker s confidence in the effectiveness of their capabilities to compromise DoD systems This conclusion was developed upon several factors including the success adversaries have had penetrating our networks the relative ease that our Red Teams have in disrupting or completely beating our forces in exercises using exploits available on the Internet and the weak cyber hygiene position of DoD networks and systems The Task Force believes that the recommendations of this report create the basis for a strategy to address this broad and pervasive threat   **Task Force Report** Defense Science Board,Department of Defense,2015-06-27 The United States cannot be confident that our critical Information Technology IT systems will work under attack from a sophisticated and well resourced opponent utilizing cyber capabilities in combination with all of their military and intelligence capabilities a full spectrum adversary While this is also true for others e g Allies rivals and public private networks this Task Force strongly believes the DoD needs to take the lead and build an effective response to measurably increase confidence in the IT systems we depend on public and private and at the same time decrease a would be

attacker s confidence in the effectiveness of their capabilities to compromise DoD systems We have recommended an approach to do so and we need to start now **Resilient Military Systems and the Advanced Cyber Threat** Paul Kaminski,2014-03-01 The Final Report of a Task Force that was asked to review and make recommendations to improve the resilience of Department of Defense DOD systems to cyber attacks and to develop a set of metrics that DOD could use to track progress and shape investment priorities After conducting an 18 month study the Task Force concluded that the cyber threat is serious and that the U S cannot be confident that our critical Information Technology IT systems will work under attack from a sophisticated and well resourced opponent utilizing cyber capabilities in combination with all of their military and intelligence capabilities a full spectrum adversary DOD needs to build an effective response to measurably increase confidence in the IT systems the public and private sectors depend on and at the same time decrease a would be attacker s confidence in the effectiveness of their capabilities to compromise DOD systems Figures This is a print on demand report Task Force Report Office of Office of the Under Secretary of Defense for Acquisition,,Office of the Under Secretary of Defense,Technology and Technology and Logistics,Department of Department of Defense,2014-12-19 After conducting an 18 month study this Task Force concluded that the cyber threat is serious and that the United States cannot be confident that our critical Information Technology IT systems will work under attack from a sophisticated and well resourced opponent utilizing cyber capabilities in combination with all of their military and intelligence capabilities a full spectrum adversary While this is also true for others e g Allies rivals and public private networks this Task Force strongly believes the DoD needs to take the lead and build an effective response to measurably increase confidence in the IT systems we depend on public and private and at the same time decrease a would be attacker s confidence in the effectiveness of their capabilities to compromise DoD systems This conclusion was developed upon several factors including the success adversaries have had penetrating our networks the relative ease that our Red Teams have in disrupting or completely beating our forces in exercises using exploits available on the Internet and the weak cyber hygiene position of DoD networks and systems The Task Force believes that the recommendations of this report create the basis for a strategy to address this broad and pervasive threat **Hacking the Bomb** Andrew Futter,2018-04-02 Are nuclear arsenals safe from cyber attack Could terrorists launch a nuclear weapon through hacking Are we standing at the edge of a major technological challenge to global nuclear order These are among the many pressing security questions addressed in Andrew Futter s ground breaking study of the cyber threat to nuclear weapons Hacking the Bomb provides the first ever comprehensive assessment of this worrying and little understood strategic development and it explains how myriad new cyber challenges will impact the way that the world thinks about and manages the ultimate weapon The book cuts through the hype surrounding the cyber phenomenon and provides a framework through which to understand and proactively address the implications of the emerging cyber nuclear nexus It does this by tracing the cyber challenge right across the nuclear weapons enterprise explains the important

differences between types of cyber threats and unpacks how cyber capabilities will impact strategic thinking nuclear balances deterrence thinking and crisis management The book makes the case for restraint in the cyber realm when it comes to nuclear weapons given the considerable risks of commingling weapons of mass disruption with weapons of mass destruction and argues against establishing a dangerous norm of hacking the bomb This timely book provides a starting point for an essential discussion about the challenges associated with the cyber nuclear nexus and will be of great interest to scholars and students of security studies as well as defense practitioners and policy makers   **Dark Territory** Fred Kaplan,2016-03-01 An important disturbing and gripping history Kirkus Reviews starred review the never before told story of the computer scientists and the NSA Pentagon and White House policymakers who invent and employ cyber wars where every country can be a major power player and every hacker a mass destroyer In June 1983 President Reagan watched the movie War Games in which a teenager unwittingly hacks the Pentagon and asked his top general if the scenario was plausible The general said it was This set in motion the first presidential directive on computer security From the 1991 Gulf War to conflicts in Haiti Serbia Syria the former Soviet republics Iraq and Iran where cyber warfare played a significant role Dark Territory chronicles a little known past that shines an unsettling light on our future Fred Kaplan probes the inner corridors of the National Security Agency the beyond top secret cyber units in the Pentagon the information warfare squads of the military services and the national security debates in the White House to reveal the details of the officers policymakers scientists and spies who devised this new form of warfare and who have been planning and more often than people know fighting these wars for decades An eye opening history of our government s efforts to effectively manage our national security in the face of the largely open global communications network established by the World Wide Web Dark Territory is a page turner and consistently surprising The New York Times   **Prioritization Theory and Defensive Foreign Policy** Hanna Samir Kassab,2017-02-07 This book studies systemic vulnerabilities and their impact on states and individual survival The author theorizes that the structure of the international system is a product of the distribution of capabilities and vulnerabilities across states States function or behave in terms of these systemic threats The author examines a number of specific case studies focusing on military economic environmental political and cyber vulnerabilities and how different states are impacted by them Arguing that current attempts to securitize these vulnerabilities through defensive foreign policies are largely failing the books makes the case for prioritizing economic development and human security   **The New World of Transitioned Media** Gali Einav,2014-10-01 The media industry is undergoing an accelerated pace of change driven in large part by the proliferation of digital platforms In many cases the speed of adoption has exceeded our ability to process the impact of these changes on individuals and society at large This book provides a behind the scenes look at the media industry s transition into the digital era and examines its impact on marketing advertising innovation and other economic and social activities The impact of digital technologies on traditional media sectors such as advertising video games film and television

is well documented Less understood is its effect on our perceptions thought processes and inter personal relationships Social media for example represents a fundamental change in the ways we interact with media communicate with each other and even present ourselves to the world This has shaped the way we communicate with institutions and brands Similar to the first Transitioned Media book Transitioned Media A Turning Point into the Digital Realm this book combines media industry leaders and academics to explore various transformative trends and issues Themes include measuring cross platform behaviour artificial intelligence in journalism the evolution of video games digital media and physical space the mobile use trends social media and the corporate world the changes in the television and newspaper business and the evolving relationship between advertisers and target audiences The varied backgrounds of contributors and array of topics make for a unique and insightful point of view   **Congressional Record** United States. Congress,2013   **Military Review** ,2017   **Congressional Record, Daily Digest of the 113th Congress, First Session Volume 159 - Part 15** ,   Naval War College Review ,2014   *JPRS Report* ,1993   **Cyberspace Operations** Department of Defense,U. S. Military,Defense Science Board,U. S. Army War College,U. S. Government,2017-04-08 The Cyberspace Operations Group of the Center for Strategic Leadership U S Army War College conducted a three day workshop to explore the cyberspace issues that should be addressed in senior service college level education and similar senior leader education programs This workshop was designed to acknowledge and leverage existing education programs and to identify new programs and curricula that need to be developed Have to know topics as well as nice to know topics were identified These topics were further categorized by subject and the educational methodology that would best facilitate senior leader education Also included in this collection is a vital 2013 report from the U S Defense Department warning of serious cyber threats to the military including the critical nuclear weapons infrastructure Task Force Report Resilient Military Systems and the Advanced Cyber Threat The report addresses the risk of catastrophic cyber attacks and discusses the need for offensive operations This Task Force was asked to review and make recommendations to improve the resilience of DoD systems to cyber attacks and to develop a set of metrics that the Department could use to track progress and shape investment priorities After conducting an 18 month study this Task Force concluded that the cyber threat is serious and that the United States cannot be confident that our critical Information Technology IT systems will work under attack from a sophisticated and well resourced opponent utilizing cyber capabilities in combination with all of their military and intelligence capabilities a full spectrum adversary While this is also true for others e g Allies rivals and public private networks this Task Force strongly believes the DoD needs to take the lead and build an effective response to measurably increase confidence in the IT systems we depend on public and private and at the same time decrease a would be attacker s confidence in the effectiveness of their capabilities to compromise DoD systems This conclusion was developed upon several factors including the success adversaries have had penetrating our networks the relative ease that our Red Teams have in disrupting or completely beating our forces in exercises using exploits

available on the Internet and the weak cyber hygiene position of DoD networks and systems The Task Force believes that the recommendations of this report create the basis for a strategy to address this broad and pervasive threat Nearly every conceivable component within DoD is networked These networked systems and components are inextricably linked to the Department s ability to project military force and the associated mission assurance Yet DoD s networks are built on inherently insecure architectures that are composed of and increasingly using foreign parts While DoD takes great care to secure the use and operation of the hardware of its weapon systems the same level of resource and attention is not spent on the complex network of information technology IT systems that are used to support and operate those weapons or critical IT capabilities embedded within them DoD s dependence on this vulnerable technology is a magnet to U S opponents In fact DoD and its contractor base have already sustained staggering losses of system design information incorporating decades of combat knowledge and experience that provide adversaries insight to technical designs and system use Despite numerous DoD actions efforts are fragmented and the Department is not currently prepared to effectively mitigate this threat Cyber is a complicated domain There is no silver bullet that will eliminate the threats inherent to leveraging cyber as a force multiplier and it is impossible to completely defend against the most sophisticated cyber attacks **Hearings before and special reports made by Committee on Armed Services of the House of Representatives on subjects affecting the naval and military establishments, 1972** United States. Congress. House. Committee on Armed Services,1973 **Washington Report on the Hemisphere** ,2000 Encyclopedia of Governmental Advisory Organizations ,1998 **Government Reports Annual Index** ,1994

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