

2016 MALCON 



Tuesday, October 18, 2016 - AM		
7:00 - 9:00 AM	Registration & Breakfast	
9:00 - 9:15 AM	Welcome Remarks - Dr. Fernando Colon Osorio, General Program Chair	
, 1 1 1	Keynote - Dmitri Vitaliev, Director at Equalit.ie and Information Technology and Services Consultant	
9:15 - 10:15 AM	Biography: Dmitri is the founder and director of eQualit.ie with over a decade of experience working on digital security and privacy technology within the human rights and independent media sector. He has led and participated in missions to over 40 countries, and is a recognized expert on technology training and organizational security. He is the author of the Digital Security and Privacy for Human Rights Defenders manual and was a founding member and coordinator of the NGO-in-a-Box Security Edition project. He has helped to create worldwide networks of trainers, developed curricula for various security programs and is also a regular contributor to technology publications. But his real job is bringing up two kids and trying to be more at home.	
	Topic: Privacy, Security and the Future of Our Society	
10:15 - 10:30 AM	Break	
10:30 - 12:30 PM: Session # 1: Emerging threats and Malware classification Session Chair: Dr. Colon Osorio	1570293834: Malware Provenance - Code Reuse Detection in Malicious Software at Scale by Jason Upchurch, United States Air Force Academy & University of Colorado at Colorado Springs, USA; Xiaobo Zhou. University of Colorado at Colorado Springs, USA	
	1570297790: Reverse Engineering with Bioinformatics Algorithms Over a Sound Android Covert Channel by Sergio Vargas and Eleazar Aguirre, Instituto Politécnico Nacional Centro de Investigación en Computación, Mejico	
	1570297288: Dissecting Developer Policy Violating Apps: Characterization and Detection by Su Mon Kywe and Yingjiu Li, Singapore Management University, Singapore; Jason Hong, Carnegie Mellon University, USA; Yao Cheng, Singapore Management University, Singapore	
	1570297243: Impact of Base Transceiver Station Selection Mechanisms on a Mobile Botnet Over a LTE Network Asem Kitana and Issa Traore, University of Victoria, Canada; Isaac Woungang, Ryerson University, Canada	
12:30 - 01:30 PM	Lunch	







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Tuesday, October 18, 2016 - PM				
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01:30 - 03:00				
<mark>Panel</mark> Moderator: Randy J. Jordan, FBI	Description: It is universally agreed amongst "Security Professionals" that the most significant weakest links in the cyber security chain are:			
	1. System complexity - if Windows XP is estimated to have 40 Million lines of code, and Windows 10 even a higher number, then,			
	a. the ability to proof the correctness of the code is NOT possible, and			
	b. the number of defects present in most modern systems increases with the increased complexity of the system. Said complexity leads to incremental defects, and therefore, increased vulnerabilities that can be exploited. Bottom line is that increase functionality results in higher security risks; and			
	2. Humans.			
	In the past a lot of emphasis has been applied to item # 1. However, often the efforts to deal with vulnerable humans is less defined, with limited number of tools available to address the problem.			
	This difficulty, and the corresponding tension between Privacy and Security is a critical issue that must be addressed. The panelist will have an opportunity to discuss the limits that must be present when organizations infringe on its members privacy.			
03:00 - 03:15	" Break			
03:15 - 05:30 PM	11 Di Can 11 11 11			
Session 2 - Broad Spectrum Malware, Defense Strategies & Mechanisms	1570294110: Reconstructing packed binaries with dynamic binary instrumentation by David Korczynski, University of Oxford, United Kingdom			
Session Chair: Dr. Anthony Arrott	1570289540: CARDINAL - Similarity Analysis to Defeat Malware Compiler Variations by Luke T Jones, United States Air Force Academy & Chthonian Cyber Services, USA; Andrew Sellers, US Air Force Academy, USA; Martin Carlisle, Carnegie Mellon University, USA			
	1570289001: Automatic Extraction of Malicious Behaviors by Khanh-Huu-The Dam, IRIF, University Paris Diderot and Tayssir Touili, CNRS and University Paris 13, France			







Tuesday, October 18, 2016 - Evening Program				
05:30 -07:30 PM	JiFree Time			
07:30 - 08:00 PM	Cocktail Reception			
08:00 - 10:30 PM	""Best Paper" Award Gala Dinner			

Wednesday, October 19, 2016 - AM		
7:00 - 8:00 AM	Registration & Breakfast	
8:00 - 10:15 AM	1570297970: SigPID - Significant Permission Identification for Android Malware Detection by Lichao Sun, Zhiqiang Li, Qiben Yan, Witawas Srisa-an and Yu Pan, University of Nebraska, Lincoln, USA	
<u>Session 3 -</u> Mobile Malware, Detection & Thwarting	1570300232: Native Malware Detection in Smartphones with Android OS Using Static Analysis, Feature Selection and Ensemble Classifiers by Salvador Morales-Ortega, P.J. Escamilla-Ambrosio, A. Rodríguez-Mota and L.D. Coronado-De-Alba, Instituto Politécnico Nacional, Centro de Investigación	
Session Chair: Prof Arun Lakhotia	en Computación. Mejico	
	1570293916: On the Effectiveness of Application Characteristics in the Automatic Classification of Malware on Smartphones by Matthew Ping and Spiros Mancoridis, Drexel University, USA	
10:15 - 10:30 AM	Break	
-	1570297589: On Periodic Behavior of Malware - Experiments, Opportunities and Challenges by Anh Huynh, Wee-Keong Ng and Hoang Giang Do, Nanyang Technological University, Singapore	
Session 4 - Offense, Defense, and		
	1570289049: A covert data transport protocol by Yu Fu, Jia Zhe, Lu Yu and Richard Ree Brooks, Clemson University, USA	
Session Chair: Fernando Colon	II II	
	1570293834: Malware Provenance - Code Reuse Detection in Malicious Software at Scale by Jason Upchurch, United States Air Force Academy & University of Colorado at Colorado Springs, USA; Xiaobo Zhou. University of Colorado at Colorado Springs, USA	
12:30 - 01:30 PM	LUNCH 1570297595: ZoneDroid: Control Your Droid Through Application Zoning by Md Shahrear Iqbal,	
	Queen's University & Bangladesh University of Engineering and Technology, Canada; Mohammad	
emergence of New Threats, and the analysis of old friends	Zulkernine, Queen's University, Canada	
	1570297781: Advanced Transcriptase for JavaScript Malware by Fabio Di Troia and Visaggio Corrado,	
01:30 - 03:00 PM:	Universita degli Studi del Sannio, Italy; Thomas Austin and Mark Stamp, San Jose State University, USA	
	1570304504: Anti-Analysis Trends in Banking Malware by Paul Black and Joseph Opacki, PhishLabs,	
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03:00 - 03:15 PM	Break
03:15 - 05:30 PM	1570294080: DySign: Dynamic Fingerprinting for the Automatic Detection of Android Malware by ElMouatez Billah Karbab, Mourad Debbabi, and Saed Alrabaee, Concordia University, Canada; Djedjiga Mouheb, University of Sharjah, United Arab Emirates (UAE)
<u>Session 6</u> -Mechanisms & Strategies to Detect Mobile Malware	1570299944: Signature Limits: An Entire Map of Clone Features and Their Discovery in Nearly Linear Time by William Casey, Carniege M ellon University and William Casey and Aaron Shelmire, Anomali,
Session Chair: Fernando Colon Osorio	USA 1570297648: Function Identification and Recovery Signature Tool by Angel Villegas, Cisco Systems, 1. Inc., USA
04:30 - 05:00	Concluding Remarks - Dr. Fernando Colon Osorio, General Program Chair
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Thursday, October 20, 2016 - ALL DAY				
07:00 - 08:00 AM	Option # 1: Capture teh Flag Contest Registration & Breakfast Welcome Remarks - Dr. Fernando Colon Osorio, General Program Chair			
08:15 - 12:15 PM	Session A: Penetration Testing Tutorial - Assessing Your Overall Security Before the Attackers do.			
	What is Pen-Testing? Why Perform Pen-Testing? Pen-Testing Tools And Reporting Analysis Of CORE IMPACT Metasploit Framework 3.0			
	Lunch			
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	2nd Annual Capture The Flag Contest as part of the		
	First Price (Must capture all 5 flags)	\$2,000.00 USD	
01:15 pm to 05:00 pm Session Chair: Dr. Jose A. Morales	2nd Price	Certificate 2nd Place plus \$ 150.00	
Session Chair: Dr. Jose A. Morales	3rd Price	Certificate 3rd Place plus \$ 75.00	
	Winners will be announced and prizes awarded at the end of the MALCO 2016 Conference.		
	All participants in the conference are welcomed to form a team.		
	For Further Information contact:		
	Dr. Jose A. Morales, CFT Organizer		
	and/or		
	Mr. Dan Klinedinst, CTF Organizer		
	To Register, <u>click here</u>		
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12:30 - 01:30 PM			







