

(12) International Application Status Report

Received at International Bureau: 16 March 2017 (16.03.2017)

Information valid as of: 01 November 2017 (01.11.2017)

Report generated on: 21 September 2019 (21.09.2019)

(10) Publication number:

WO2017/153983

(43) Publication date:

14 September 2017 (14.09.2017)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/IL2017/050277

(22) Filing Date:

07 March 2017 (07.03.2017)

(25) Filing language:

English (EN)

(31) Priority number(s):

62/304,958 (US)

(31) Priority date(s):

08 March 2016 (08.03.2016)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

G06F 21/56 (2013.01); *G06F 21/60* (2013.01); *G06F 21/55* (2013.01); *G06F 21/50* (2013.01)

(71) Applicant(s):

B. G. NEGEV TECHNOLOGIES AND APPLICATIONS LTD., AT BEN-GURION UNIVERSITY [IL/IL]; P.O.B. 653 8410501 Beer Sheva (IL) (*for all designated states*)

(72) Inventor(s):

GURI, Mordechai; 28 Emek Ayalon Street 7170656 Modi'in (IL)
ELOVICI, Yuval; 9 Moshav Arugot 7986400 D.N. Lachish (IL)

(74) Agent(s):

FUERST, Zadok; Luzzatto & Luzzatto P.O. Box 5352 8415202 Beer Sheva (IL)

(54) Title (EN): SYSTEM AND METHOD FOR PERFORMING IN-CLOUD SECURITY OPERATIONS ON CONNECTED DEVICES#

(54) Title (FR): SYSTÈME ET PROCÉDÉ PERMETTANT D'EFFECTUER DES OPÉRATIONS DE SÉCURITÉ EN NUAGE SUR DES DISPOSITIFS CONNECTÉS

(57) Abstract:

(EN): The invention relates to a system for protecting IoT devices from malicious code, which comprises: (a) a memory extracting module at each of said IoT devices, for extracting a copy of at least a portion of the memory content from the IoT device, and sending the same to an in-cloud server; and (b) an in-cloude server for receiving said memory content, and performing an integrity check for a possible existance of malicious code within said memory content.

(FR): L'invention concerne un système permettant de protéger des dispositifs IoT contre un code malveillant, ledit système comprenant : (a) un module d'extraction de mémoire sur chacun desdits dispositifs IoT permettant d'extraire une copie d'au moins une partie du contenu de mémoire du dispositif IoT, et d'envoyer celle-ci à un serveur en nuage ; et (b) un serveur en nuage permettant de recevoir ledit contenu de mémoire, et d'effectuer un contrôle d'intégrité pour détecter une éventuelle présence d'un code malveillant dans ledit contenu de mémoire.

International search report:

Received at International Bureau: 18 June 2017 (18.06.2017) [IL]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KH, KN, KP, KR,

KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG
African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM

Declarations:

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America