

Title (en)

METHOD AND INTEGRITY CHECKING SYSTEM FOR PERTURBATION-FREE INTEGRITY MONITORING

Title (de)

VERFAHREN UND INTEGRITÄTSPRÜFSYSTEM ZUR RÜCKWIRKUNGSFREIEN INTEGRITÄTSÜBERWACHUNG

Title (fr)

PROCÉDÉ ET SYSTÈME DE CONTRÔLE D'INTÉGRITÉ PERMETTANT LA SURVEILLANCE DE L'INTÉGRITÉ SANS EFFET RÉTROACTIF

Publication

**EP 3437297 A1 20190206 (DE)**

Application

**EP 17720756 A 20170426**

Priority

- DE 102016207546 A 20160502
- EP 2017059861 W 20170426

Abstract (en)

[origin: WO2017190997A1] A method and an integrity checking system having an integrity checking unit (105) and an integrity reporting unit (106) for perturbation-free integrity monitoring of at least one first device (103), which is arranged in a first network (101) having a high security requirement, by an integrity checking device (106), which is arranged in a second network (102) having a low security requirement, having the method steps of: – providing (11) check information (IM) for the data of the first device (103) that are to be monitored to an integrity checking device (106) by means of a perturbation-free one-way communication unit (104), – checking (12) the check information (IM) in the second network (102) against at least one piece of reference information, and – transmitting (13) a status report (SM) to an integrity reporting device (105) in the first network (101). This ensures integrity monitoring of the data communication and of the software configuration of devices in a security-critical network without introducing additional data into the security-critical network in the process or perturbing the communication within the security-critical networks.

IPC 8 full level

**H04L 29/06** (2006.01)

CPC (source: EP US)

**H04L 63/105** (2013.01 - EP US); **H04L 63/123** (2013.01 - EP US); **H04L 63/1416** (2013.01 - US); **H04L 9/0643** (2013.01 - US)

Citation (search report)

See references of WO 2017190997A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102016207546 A1 20171102**; CN 109328453 A 20190212; EP 3437297 A1 20190206; US 2019149557 A1 20190516; WO 2017190997 A1 20171109

DOCDB simple family (application)

**DE 102016207546 A 20160502**; CN 201780041069 A 20170426; EP 17720756 A 20170426; EP 2017059861 W 20170426; US 201716097845 A 20170426