

Title (en)  
SECURING MULTICAST DATA

Title (de)  
SCHUTZ VON MULTICAST-DATEN

Title (fr)  
SÉCURISATION DE DONNÉES MULTIDIFFUSÉES

Publication  
**EP 2127204 A2 20091202 (EN)**

Application  
**EP 07873655 A 20071204**

Priority  
• US 2007086343 W 20071204  
• US 87381806 P 20061208  
• US 98211207 A 20071101

Abstract (en)  
[origin: WO2008118227A2] Systems and methods for securing multicast data are described. Data of a multicast, is protected through the use of at least double encryption keys, such as a community-of-interest key and session key. Data of a multicast is also split into portions of multicast in accordance with the session key, and transmitted over a choice of different pathways to one or more endpoints. The community-of-interest key is a prerequisite to joining or requesting deliver of a particular multicast. The community-of-interest key initializes, and exchanges a session key. All endpoints in a particular multicast community-of-interest group share the same session keys values. Endpoints that join a group (tune- in) must be notified of the session keys that are being used by the group at that particular time. A "Join" request is usually sent to an Ethernet address group. That address, is mapped to a community-of-interest of N IP addresses corresponding to each VLAN associated with the community-of-interest (the group) for the multicast.

IPC 8 full level  
**H04L 12/18** (2006.01)

CPC (source: EP)  
**H04L 12/18** (2013.01); **H04L 63/0435** (2013.01); **H04L 63/065** (2013.01); **H04L 63/105** (2013.01); **H04L 63/18** (2013.01); **H04L 12/1881** (2013.01)

Citation (search report)  
See references of WO 2008118227A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2008118227 A2 20081002**; **WO 2008118227 A3 20090305**; EP 2127204 A2 20091202; EP 2154822 A2 20100217

DOCDB simple family (application)  
**US 2007086343 W 20071204**; EP 07873655 A 20071204; EP 09173672 A 20071204