

CLAIMS

1. Method for supervising a communication session over a data network, said session comprising a first data flow, referred to as the parent flow, using a first protocol, said parent flow comprising data which allow establishing a second data flow, referred to as the child flow, using a second protocol for said session, said method comprising:
 - searching ~~(13)~~ the parent flow for the data that allow establishing the child flow;
 - generating ~~(15)~~ and storing ~~(17)~~ a signature, referred to as the parent key, using said data;
 - auditing ~~(19)~~ data flows using the second protocol on said data network;
 - creating ~~(1)~~ a signature for each of said flows;
 - comparing ~~(23)~~ said signature of each of said flows to the parent key; and
 - if the comparison is positive, determining ~~(25)~~ that the corresponding data flow is the child flow of the session.
2. Method according to claim 1, wherein, the session comprising a determined plurality of child flows, the data flows are audited until the set of child flows is determined.
3. Method according to claim 1 or claim 2, wherein, said child flow comprising data which allow establishing a third data flow using a third protocol for said session, a signature is generated using said data, and data flows using the third protocol are audited until the data flow corresponding to the session is determined.
4. Method according to any one of the above claims, wherein, said method monitoring a plurality of sessions each comprising a parent flow for which a parent key is generated and stored, for each of said flows using the second

protocol, the signature is compared to each of the parent keys to determine whether or not said flow is the child flow of one of said sessions.

- 5 5. Computer program product, comprising program code stored on a computer-readable medium, for carrying out the steps of the method according to any one of claims 1 to 4 when said program is executed on a computer.

- 10 6. System for supervising a communication session over a data network, said session comprising a first data flow, referred to as the parent flow, using a first protocol, said parent flow comprising data which allow establishing a second data flow, referred to as the child flow, using a second protocol for said session, said system comprising:
 - 15 • a first flow analyzer ~~(31)~~ for searching the parent flow for data that allow establishing the child flow;
 - a first signature generator ~~(33)~~, for generating a signature, referred to as the parent key, using said data;
 - memory ~~(35)~~ for storing said signature;
 - 20 • a second flow analyzer ~~(37)~~ for auditing data flows using the second protocol on said data network;
 - a second signature generator ~~(39)~~ for each of said flows;
 - a comparator ~~(41)~~ for comparing said signature of each of said flows to the parent key; and
 - 25 • a tagger ~~(43)~~ for tagging the flow corresponding to the signature, if the result of the comparator is positive, as the child flow of said session.

7. System according to claim 6, wherein it comprises at least two devices connected by a data network, the first device including at least the memory, the signature comparator, and the tagger, and the second device including