regulations, respectively.

It should be understood that features (individually or in any combination) disclosed, described, mentioned, explained or applied to a first control node, to a second control node, or to a communication network may also be applied (individually or in any combination) for an embodiment of a first communication method and a second communication method described below or vice versa.

According to an embodiment, a first communication method is provided which comprises providing a first control node comprising a first control node communication module for forming a first-level communication network with at least one second control node, and a first intermediary node communication module for forming a first second-level communication network with a first intermediary node; transmitting a first user request from a first user node to the first intermediary node; receiving, by the first intermediary node communication module, an anonymous request from the first intermediary node, the anonymous request being based on the first user request; searching, based on the anonymous request, in a first storage of the first control node for anonymous response data; transmitting, by the first intermediary node communication module via the first-level communication network, the anonymous request to the second control node; receiving by the first control node, via the first-level communication network, the anonymous response data, responding to the anonymous request, from the second control node; and transmitting, by the first intermediary node communication module, the anonymous response data, via the first second-level communication network, to the first intermediary node for transmission of response data which are based on the anonymous response data to the first user node.

According to another aspect, a second communication method is provided, which comprises providing a second control node comprising a second control node communication module for forming a first-level communication network with at least one first control node, and a second storage for storing control node data; receiving, by the second control node communication module via the first-level communication network, an anonymous request from the first control node; retrieving, by the second

storage, based on the anonymous request, anonymous response data, responding to the anonymous request, from the second storage; and transmitting, by the second control node communication module via the first-level communication network, the anonymous response data to the first control node.

According to another embodiment of the present invention, a communication method comprises the method steps of the first communication method as described above and the method steps of the second communication method as described above.

According to further aspects of the present invention, a program element, in particular stored on a computer-readable medium, and a computer-readable medium are provided, wherein when the program element is executed by a processor, the program element is adapted to control or carry out the first communication method, the second communication method and/or the communication method as described above.

Embodiments of the present invention, findings and considerations by the inventors and comparative examples by the inventors are now described with reference to the accompanying drawings. The embodiments of the present invention are not restricted to the illustrated and described embodiments. Similar elements in the drawings are labelled with similar reference sign differing only in the first digit.

Brief description of the drawings

Fig. 1 schematically illustrates a communication network according to an embodiment of the invention;

Fig. 2 schematically illustrates a conventional communication network;

Fig. 3 schematically illustrates a communication network according to findings by the inventors;

Fig. 4 schematically illustrates a communication network according to findings and considerations by the inventors;

Fig. 5 schematically illustrates a communication network according to