

Information systems are becoming an inseparable part of today's world. Together with their significance arise an emergency to integrate them to enable their mutual cooperation and so extend the facility and quality of their use. Nevertheless, this integration is carrying a number of difficulties and obstacles, which are needed to be dealt with by architects of these new and often unexplored solutions. In this work the given problematic is summarized, the basic concepts of possible approaches are introduced and the concrete challenge connected to the integration are aimed together with the ways how to solve them. Thanks to this, the project Integration of Information Systems of Charles University with its architecture of Data-Pile structure and the project Unitary Network of Italian Government as an example of Cooperating Information System can be analyzed in detail. These two integrating solutions from practice are illustrative examples of actual problems in this field, which we face in this day and age.