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## **CAD system as the design object. Status of issue**

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The development of systems for the design works automation (CAD systems) rises from the middle of the last century as the first attempts to computerize the design works. Around the world such approach is known as CAD (Computer Aided Design) – the computer oriented design. Every usage of programs to solve design tasks on computers belongs to the CAD field.

In our country there is the general task of the system solution of the design works automation by the creation of the appropriate systems. It was figured out that the universal system is impossible to create and the creation of CAD systems has accepted a branch orientation.

CAD system, as the popular abbreviation, is almost always used groundlessly for providing the separate design work, which was performed, with more important status. At the same time the important issues of concrete subject areas are resolved. The overview of the tasks solved by means of software products, which classify as CAD systems, has shown that their vast majority still hasn't found its formal solution within the applied branch and has no system character.

Publications regarding software implementations focus on separate aspects of the design process or service processes. The proposed solutions have individual character. On the basis of the incoordination of information flows and data formats, they can't be used in the development of the design system in general.

Unproductiveness of such approach to design, according to the scheme “from down to top”, have caused a flow of scientific works under the general name "integration", which, except separate cases of a computerization of simple systems, have no prospect.

According to aforesaid the architecture of the proposed CAD system with the concordance of all its components was developed at the conceptual level to overcome the described problems.

Conclusion. In modern manufacturing there is an urgent need to develop the full functional CAD system. Its received generalized information model will allow to develop the real project of the proposed CAD system.