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SIMDAT Grid-based Solutions for the Virtual Product Design Process in the Automotive Industry and Lessons Learned.

Tuesday 2 October 2007 12:00 (20 minutes)

The growing competition in the automotive industry requires continuous reduction of development and innovation cycles. On the other hand the demands on quality, safety and comfort are increasing. During the past years, advances in the area of CAD (Computer Aided Design), CAE (Computer Aided Engineering) and CAT (Computer Aided Testing) technologies and processes have contributed significantly to the ability of the automotive industry to keep up with these requirements.

Today, the data resulting from the CAD-, CAE-, and CAT-processes are stored in separate databases without common interfaces. In addition, the development teams often work at distributed locations. It is due to the ongoing transition from many small manufacturers to a few large conglomerates. This transition requires the integration of previously separate teams into single virtual development teams. They need to work on common car platforms to reduce development costs. SIMDAT aims at to provide solutions for these problems.

The presentation will give an overview of industrial use cases SIMDAT project deals with in the automotive area and of solutions intended to ease the collaboration between engineering organizations and departments based on Grid Technologies employed and extended in the SIMDAT project.

Presenter: WIRCH, Walter (MSC Software)

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