



CONTEG DATA SHEET

version: 07-02-2011

Datacenter and server room CFD modeling services

CONTEG, spol. s r.o.

Headquarters Czech Republic:
Na Vítězné pláni 1719/4
140 00 Prague 4

Tel.: +420 261 219 182
Fax: +420 261 219 192
conteg@conteg.com
www.conteg.com

Local Offices:

Austria:	+43 699 1819 7071
Benelux:	+32 477 957 126
Eastern Europe:	+49 172 848 4346
France:	+33 686 074 386
Germany:	+49 170 523 4958
Russia:	+7 495 967 3840



Computational Fluid Dynamics (CFD) modeling is a technical service designed to provide the detailed data to assess and track the temperature and air flow within your existing or proposed data center, server room or main equipment room. This service uses industry proven CFD software to provide full color 3D visualizations of your ITS environment. This data can be used for:

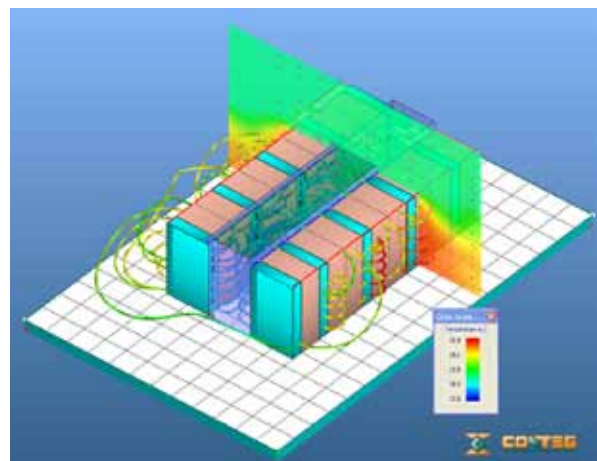
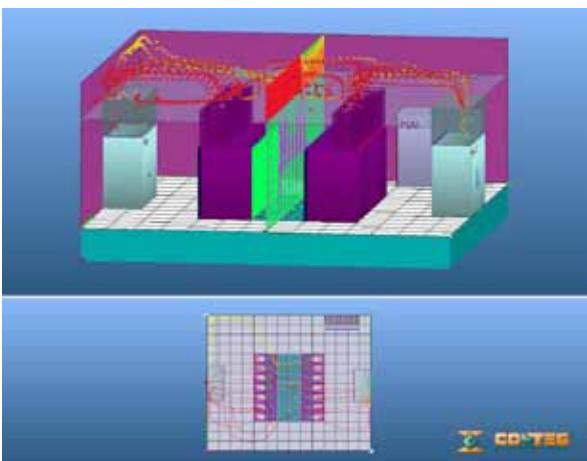
- Identifying recirculation and bypass air issues in an existing data center
- Optimization of an existing data center
- Creating “what if” scenarios for adding or moving IT equipment for a data center
- Verifying design assumptions for new data centers
- Creating failure scenarios to verify how the data center redundant systems will function

To meet your needs, CONTEG has two standard types of services available. Descriptions of the services are listed below.

1. CONTEG Technical Team prepares model for an existing facility or retro-fit project based on scaled drawings and information provided by the customer.

Using scaled drawings in conjunction with rack level load details prescribed by the client, CONTEG’s technical team will create a CFD model of the existing data center, server room or main equipment room. This service includes detailed analysis of two failure scenarios using information provided by the client. Optionally, additional failure scenarios can be produced.

- Coordinate with client and gather information on the room conditions for project.
- Receive scaled detailed drawings, and rack level loads along with other heat load information, for example PDU’s, UPS, etc. for the data center. The level of accuracy for the resulting CFD model is directly proportional to the level of detail and accuracy of the information received.
- Create the CFD model for data center current conditions
- Coordinate with the client on two failure scenarios
- Create report of results to include recommendations for improving efficiency
- Optional creation of AVI video of nominal and failure scenarios

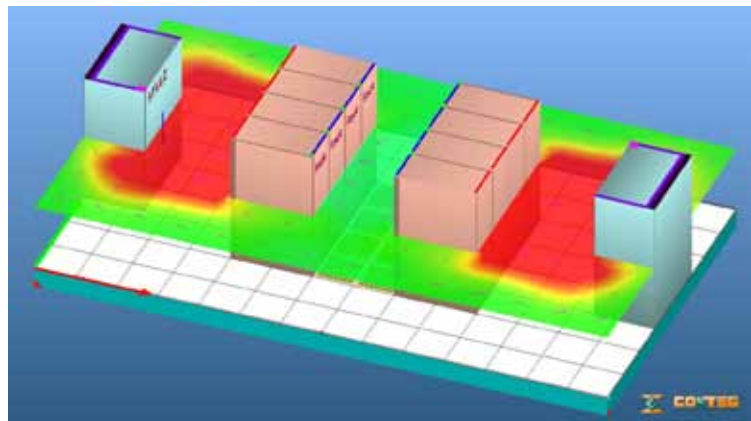
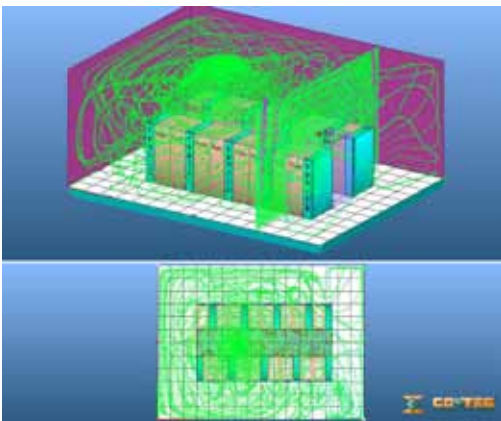




2. CONTEG Technical Team prepares model for new purpose built data center based on scaled drawings and data provided by customer.

Using scaled drawings in conjunction with rack level load details prescribed by the client CONTEG's technical team will create a CFD model for a new data center, server room or main equipment room. This service includes detailed analysis of two failure scenarios using information provided by the client. Optionally, additional failure scenarios can be produced.

- Receive scaled detailed drawings, and rack level loads along with other heat load information, for example PDU's, UPS, etc. for the data center. The level of accuracy for the resulting CFD model is directly proportional to the level of detail and accuracy of the information received
- Create the CFD model for data center for nominal conditions
- Coordinate with the client on two failure scenarios
- Create report of results to include recommendations for improving efficiency
- Optional creation of AVI video of nominal and failure scenarios



If you have a requirement that you do not see listed please contact the CONTEG Technical team at: presales@conteg.com