

- PRESS RELEASE -

MAGUS (PTY), CST and EMSS announce the next major release of Antenna Magus, version 2.0 – the first antenna design software of its kind.

Stellenbosch, South Africa & Darmstadt, Germany, April 14th, 2010, MAGUS (Pty) Ltd, CST - Computer Simulation Technology AG (CST), EMSS - EM Software & Systems-S.A. (Pty) Ltd announce the release of the second major version of Antenna Magus.

The number of antenna topologies in the Antenna Magus database has almost doubled since the release of version 1.0. There are now 113 popular antennas available to be designed for a wide variety of objective values. Some of the more popular additions are the bi-quad, the axial choke horn, the travelling wave waveguide slot array, various patch arrays, the Vivaldi and the probe fed cheese.

Many other aspects of Antenna Magus have been improved with additional functionality. One addition is the new Antenna Array Synthesis tool which was added to assist engineers with array synthesis. This tool designs spacings and excitation tapers for a variety of different array topologies, based on performance requirements such as gain, beamwidth or squint angle. The array design can be simulated with isotropic elements or with any one of several typical patterns. The designed spacings, excitation taper and patterns are ready for export to FEKO and CST MICROWAVE STUDIO®.

“The response of the market to Antenna Magus Version 1.0 has been very positive. We have received a lot of valuable feedback from customers that has been used in developing the antennas and improvements implemented in Antenna Magus Version 2.0,” stated Sam Clarke, Managing Director, MAGUS (Pty) Ltd. *“We are confident that version 2 will add as much value to the end-user as the introduction of this tool did in version 1.0”*

Highlights of Antenna Magus 2.0

- Antenna Array Synthesis tool
- 113 antennas in the database
- Major analysis speedups of over 50 antennas. A number of antennas run > 100 times faster
- Exporting reports and numeric graph data
- Side-by-side comparison of antenna “info docs”
- More modeling options when exporting to FEKO and CST MICROWAVE STUDIO
- Substrate library redesign
- Selection of antennas also export to TICRA’s CHAMP, an additional CEM tool
- Major user interaction improvements

Availability

Antenna Magus Version 2.0 is immediately available and can be purchased through any CST or FEKO reseller.

About MAGUS (Pty) Ltd

MAGUS (Pty) Ltd develops antenna design software. Antennas designed using its software can be used in a wide variety of applications at various frequency bands, including, but not limited to, telecommunications, mobile devices, aerospace, satellite, automotive, radio astronomy and defence. For further information please visit www.antennamagus.com.

About CST – Computer Simulation Technology AG

CST develops and markets high performance software for the simulation of electromagnetic fields in all frequency bands. Its success is based on the implementation of unique, leading edge technology in a user-friendly interface. CST's customers operate in industries as diverse as Telecommunications, Defence, Automotive, Electronics, and Medical Equipment, and include market leaders such as IBM, Intel, Mitsubishi, Samsung, and Siemens. With 170 employees worldwide and a network of qualified distributors, over 200 people are dedicated to the development and support of its EM products in more than 30 countries. CST's flagship product, CST MICROWAVE STUDIO® (CST MWS) is the market leader in Time Domain simulation. It enables the fast and accurate analysis of high frequency (HF) devices such as antennas, filters, couplers, planar and multi-layer structures and SI and EMC effects. CST MWS offers considerable product to market advantages such as shorter development cycles, virtual prototyping before physical trials, and optimization instead of experimentation.

Further information about CST is available on the web at www.cst.com.

About FEKO and EMSS - EM Software & Systems-S.A. (Pty) Ltd.

FEKO is a comprehensive computational electromagnetics code (CEM code) used widely in the telecommunications-, automobile-, space- and defence-industry. FEKO offers several solution techniques (MoM, MLFMM, PO, UTD and FEM) enabling the analysis of a very broad spectrum of EM problems e.g. 3D antenna design, antenna placement on electrically large structures, microstrip-antennas, microstrip-circuits, EMC, biomedical and scattering. FEKO has a well established global distribution and technical support network.

For further information, visit www.feko.info.

EMSS was started in 1994 as an engineering company consulting in general electromagnetic problems. EMSS (USA) Inc. and EMSS GmbH serve customers in North America (US, Canada and Mexico) and Europe respectively.

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Graphics

PR graphics can be downloaded from the news section of CST's website at:

www.cst.com/content/news/documents/news_item_152/2010_4_AM_v2_graphics.zip

2010_4_synthesis_tool: "Antenna Magus Version 2 includes a new tool to assist engineers with array synthesis."

2010_4_AM_database.tif: "Antenna Magus Version 2 features a database of 113 designed antennas which can be exported to CST MICROWAVE STUDIO® for further analysis and optimization."

2010_4_AM_Array.tif: "An antenna array designed in Antenna Magus Version 2"