M2000 Emulator for SICOMP – Your Future-Oriented Alternative

Time to scrap a proven system?

Some years ago your company invested in hardware and engineering for the implementation of a Siemens SICOMP computer system.

And now it seems the personal computer is able to do everything much better.

Today, industry can no longer do without the powerful Windows platform because its standardized interfaces are able to open industrial computers, automation systems and the all important process data to all other areas of the company itself and, if necessary, to its clients.

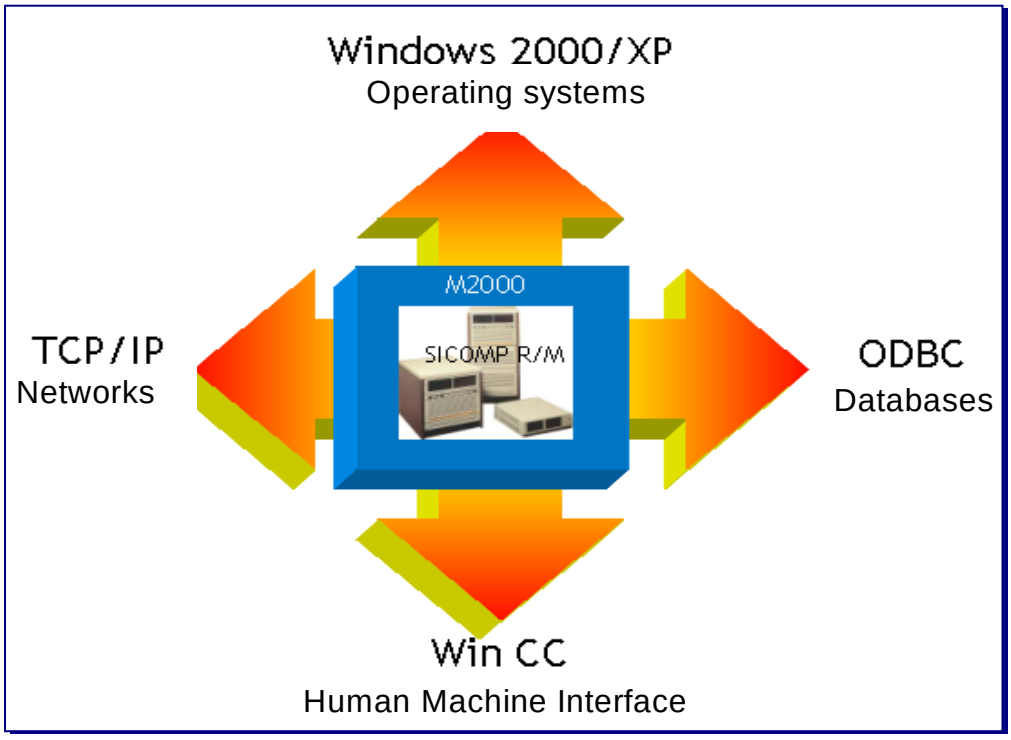
Costly new investment decisions?

So is now the time to dispose of the SICOMP installation and invest in costly new development? Start again from scratch? Build up new know-how and pay once again for training courses to introduce a new system to your personnel?
No, this doesn't have to be your decision scenario with the M2000 solution!

M2000 keeps your SICOMP working for you!

M2000 emulates your entire SICOMP system on an open Windows 2000/XP platform. With the 1-to-1 emulation of the SICOMP hardware command set and SICOMP level structure, M2000 maps your SICOMP applications onto the command set of the Intel Pentium processors. This enables you to run your SICOMP software system very efficiently and without limitations on a Windows server or Windows workstation.

So, there is really no need for an abrupt and expensive switch to new software. With M2000 you can adapt your SICOMP installation to the Windows world, step-by-step. This approach saves you development costs, down times due to commissioning and test runs, and new, unstable operating sequences that always come with the change to a new system.



With M2000, you open your SICOMP computer system to today's Windows world.

And to the computer platform of tomorrow!

And what are the strategic benefits?

When I emulate my SICOMP system with M2000, will I be able...

		Yes	No
To make use of latest PC hardware components?	Reduced maintenance costs, open platform!	☑	☐
To use my existing SICOMP applications?	No need for costly new system development!	☑	☐
To benefit from the newest technology in the PC world?	Network integration, open data exchange, visualization!	☑	☐
To achieve a higher degree of fault tolerance?	High server availability, RAID, cluster and fibre channel solutions!	☑	☐

With an M2000 solution your installation is ready for the future. And you can rest assured that none of your former investment in engineering work and accumulated know-how have been wasted.

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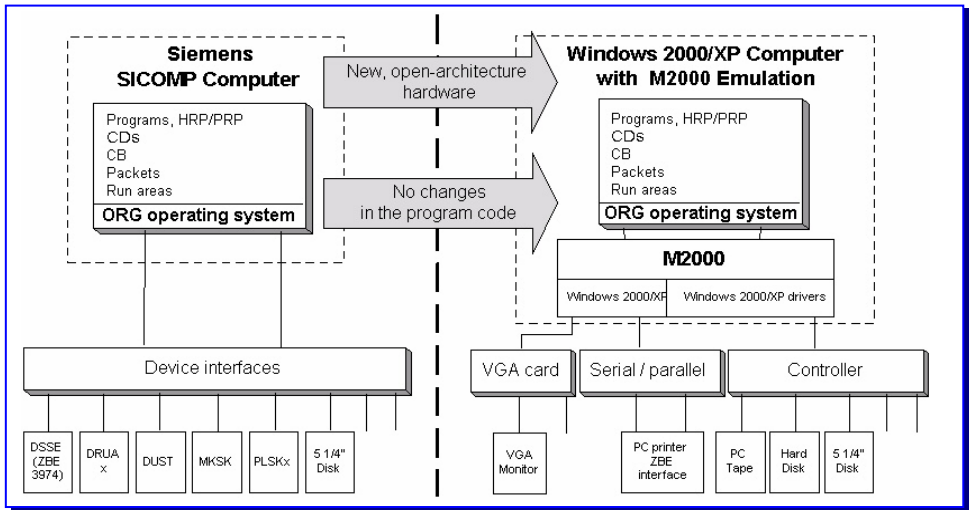
M2000
Technical Highlights

The concept

M2000 is an enhancement of the proven PC-SIC emulator and maps the hardware, software and applications of the Siemens SICOMP M/R computer systems onto the Windows platform. The emulation is binary compatible. This means that M2000 converts the hardware command set and the SICOMP level structure to the command set of Intel Pentium processors. No changes whatsoever have to be made to your existing SICOMP application software.

An M2000 system behaves like the original SICOMP system but offers improved time performance. As the CPU emulation produces an accurate copy of the hardware characteristics of the SICOMP central unit, it doesn't matter which software or operating system (ORG PV, BS-M, AMBOSS) the emulated user system is based on.

1-to-1 emulation of SICOMP hardware and applications in the Windows 2000/XP environment



Open your system with M2000

- Export of library elements and ORG files in Windows files, and vice versa
- SICOMP user programs have direct access to Windows 2000/XP files, and vice versa
- Data exchange between SICOMP programs and Windows 2000 processes via *named pipes* with networking capability
- SICOMP programs have direct access to ODBC-databases, with and without SQL
- Network capability via the TCP/IP function in M2000

Communication with SICOMP I/O equipment

- Autonomous Windows processes emulate SICOMP I/O devices:
  - Video display terminals
  - DISIT terminals
  - Cartridge tape drive
  - PROMEA
  - Data transmission control units
- Connection of remote serial I/O via LAN

Communication with the process interface system

- Device emulation for I/O access to process interface system (PE F7/PE3600)
- Direct connection of PE F7 peripherals and PE 3600 process elements via PCI adaptor
- PE F7, PE3600 replacement through Profibus peripherals
- Timer emulation (ZIG1)

M2000 user interface

- User-friendly Windows dialog with functions for:
  - Status indication, Explorer for SICOMP data media
  - Parameter editor with automatic initial generation of the mpar.sys file
  - Import to and export from magnetic tape cassette and MOD data media
  - Enabling and disabling of data media
  - Emulation monitor, version and dongle viewer

AC-SeMa ES: M2000 add-in tool

- No-operator, web-based alarm management
- Alarm acquisition via SNMP, Event Log and Operator log book
- Message output via telephone, GSM, SMS, E-mail, Intranet/Internet and chronological alarm reports

And how do I convert from SICOMP to M2000?

All you need for the conversion of your SICOMP installation to a Windows computer running the M2000 emulator is a binary dump of the system data media (on magnetic tape cassette or MO disk). You then store these dumps in Windows 2000/XP files on the PC and edit an assignment list for the connected devices. Your M2000 emulation is now ready for operation. No changes whatsoever have to be made to your SICOMP software. No porting, compiling, etc. is necessary as SICOMP and M2000 are **binary compatible!**

For further information, please contact our branch in Erlangen. All of our Technical Support personnel will be pleased to help you with your system conversion and commissioning. If you wish, we can do the complete, plug-compatible conversion for you. And of course, there is our technical hotline. Our services are set at standard prices. So don't hesitate to contact us!

