Chess Technologies
Profile Chess-group

<table>
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<tr>
<th>Profile</th>
<th>Services</th>
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<tr>
<td>Chess is a successfully group of companies specializing in high end firmware and software development for electronic products, embedded systems and critical systems.</td>
<td>Chess has products &amp; solutions and does projects in the area of Technical Automation.</td>
<td>Netherlands : Haarlem, Eindhoven, Groningen</td>
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<td>Customers : Top 100 Netherlands that often have a leading position at International level.</td>
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<td>Founded 1988, +/- 160 employees</td>
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Chess-iT b.v.
- 60 fte
- embedded software
- critical systems
- solutions
- services

finance, support, facilities

Chess-eT b.v.
- 90 fte
- embedded technology
- chip, board, system
- products
- operations
# Service offerings Chess IT

## Embedded systems
- Electronic Product companies
- Process industry
- Automotive
- R&D

## Critical systems
- Financials
- Space
- R&D
- Traffic
- Retail
- Publishers
- Pharmaceutical industry

### Market focus

### Services/Solutions
- Embedded software & systems
- Tracer solution
- Remote management
- Security services
- Projects & Pilots
- Software engineering services
- Payment Engine solutions
- Simulation-Sham
- Remote management
- Part 11 IT-services
- Security/DRM services

### Expertises
- Linux
- Java

### Services
- CAUTION
- Test in progress
- Do not disturb

### Solutions
Business model of Chess

Innovative design centre for embedded products and systems (end-to-end)

- We design for our customers
- We develop and produce (virtually)
- We take care for the product over its life time (LCM)
- We sell our designs under a license agreement

- We deliver our services to OEM and
- we work with strong market players
Embedded Systems

Interpay: interbancaire terminal architecture
Embedded Software & Chip design pay-terminals.
Remote management software 170,000 nodes in network.

Siemens / VDO
Car navigation systems; Developing the architecture,
Projectmanagement for Audi, Peugeot a.o.
Embedded software development.

Tracer embedded software; low cost pci based solution for real time
tracing/monitoring communication-traffic data. All communication
bus types and multi-protocol supported.

Multi-application platform ICE®. Public standard: embedded Linux OS +
Java Low power ARM with 16 MB memory and flash GPRS modem and
Lion battery. Security design. Multiple extendable. Staring point: generic
payment terminal, portable pin pad, vending, parking

Océ Technologies; as a partner Chess was responsible for the calibration
component for a wide-format color inkjet printer with mechanical, electro
and iT aspects.

Estec, the technology center for ESA; Sofware supporting the mission,
Chess also delivers to the ESA program the SHAM, which is a hardware
emulator that is able to control the execution of the developed OnBoard
Software on the real target CPU.
**Multi Channel Critical Systems**

**ING Digital Safe**
Esafe combined with callcenter. Online management for documents, payment cards, traveldocs and plans. Callcenter and sms services for calamities, moving and alerts.

**Hunter Douglas, Marketplace Tapestria**
B2B online buying for HD products including settlement, simulator

**TUI; Internet portal for online travel bookings, multibranded, transactions. Distributed architecture**

**Yeahronimo; Eredivisie; Online Portal for digital content, music, sports, streams, storage, payment, drm, shop, settlement**

**Shareholder Voting System:** an integrated solution (hard- and software) for supporting the registration and voting process at shareholders meetings (ABN-AMRO, Philips, Shell, Akzo Nobel). Meanwhile implemented internationally. Knowledge of e-voting used in consultancy assignment on electronic voting for the Dutch Government

**Dutch flower auction**
Complete new real time auction system for remote buying-selling on public infrastructure with voice over ip/ video over ip.
Payments systems

Micropayment system; Rabobank Nederland
Internet and Mobile solution for small payments, advanced architecture.
White label solution for transactions, slices and streams

ING; payment service provider TWYP
J2EE solution for multi-merchant, online payments

For the combined Dutch banks in Interpay in 2002/2003 an extended multi-bank payment platform for the Internet. More channels like moto, callcenter, ecommerce and batch. Each bank with its own label.

Eredivisie, Yeahronimo, MR, Banks. PURE, A J2EE multi-merchant middleware solution for routing and managing payment transactions. The solution can be extended with storage, streaming/download functions and digital rights management.

Vialis/Real Time Parking
Payment solution and Remote management for parking meters.
Wireless-GPRS and Web based technology.

Dutch Railways
Design of a online payment facility for multiple business initiatives for the internet and mobile. Special attention for the backoffice systems and electronic ticketing.
Chess customers

Chess clients develop products and services, or bear the responsibility for critical processes, of which the added value is determined by ICT.

- Aalsmeer Flower Auction
- ABN/AMRO
- AKZO
- ASML
- Dutch Railways
- Erédvisie NV
- ESA
- ING
- Interpay
- NIVR
- NOB
- NLR
- NS
- Océ
- Philips
- Rabobank Nederland
- Shell
- Stork
- Terma
- TNO
- TUI
- Vialis
- VDO / Siemens
Chess locations

Nieuwe Gracht 13
2011 NB Haarlem
The Netherlands

t: + 31 23 5149180
f: + 31 23 5149266
e: info@chess.nl
w: http://www.chess.nl

Westerkade 15-4
9718 AS Groningen
The Netherlands

t: + 31 50 3695858
f: + 31 50 3695855
e: info@evermind.com
w: http://www.evermind.com

De Ronde 15b
5683 CZ Best
The Netherlands

t: + 31 499 331050
f: + 31 499 331055
e: info@chess.nl
w: http://www.chess.nl