

# HaXSoN<sup>®</sup>

## ***Integrated-Hardware- Software-System***



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**Direct Line Kft**



**DirectLine1**

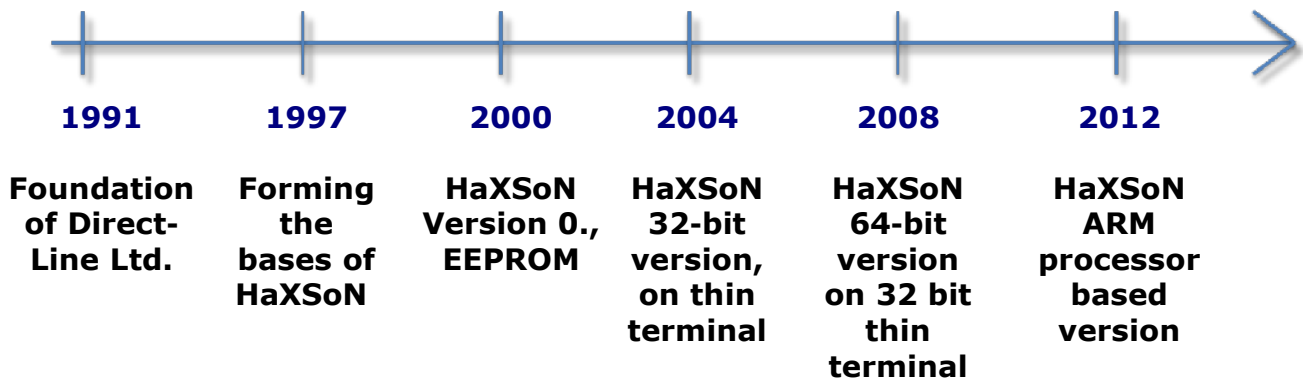
**Direct-Line Ltd.**  
14 street Jedlik Ányos  
H-2330-Dunaharaszti  
email: [info@dldh.hu](mailto:info@dldh.hu)  
webpage: [www.dldh.hu](http://www.dldh.hu)

# History

At its foundation, Direct-Line Ltd. has formed its need to develop an IT system that supports professional, secure and efficient work. The solution of this task lied in the use of open source code systems, as a result of a development work lasting 15 years.



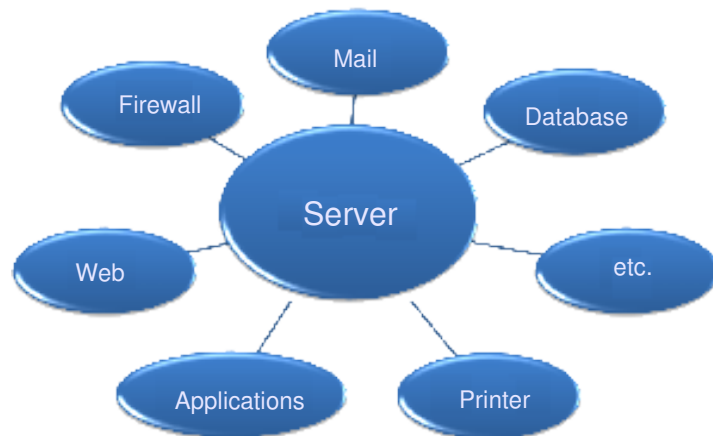
## Timeline



HaXSoN<sup>®</sup> hardware-software integrated system organizes Xwindow based terminals into a network.

In this IT system developed for professional use, users are served by a central server where the applications are available according to multi-user, multi-task logic.

## Integration



**The above functions have been integrated into a central server, which offers the following benefits:**

- All protection functions are required on the server
- Development and upgrade are required only on the server
- Backup is performed centrally
- Applications run only in one copy
- etc.

## Hardware features



### Main features of the server:

Its performance is scaled according to user needs  
The degree of system availability is highly above average  
It can be supervised from remote network well and safely

### Main features of the thin terminal:

- Long life cycle
- Low consumption
- Noiseless operation
- Applications running on the server are available
- No software installation or upgrades
- Several standard peripherals can be connected
- Multimedia support



# System features

## High degree of availability

- Secure and continuous operation
- Rapid upgrade
- Possibility of quick restoration
- The order of automatic switch in/off's can be pre-defined

## Customizability

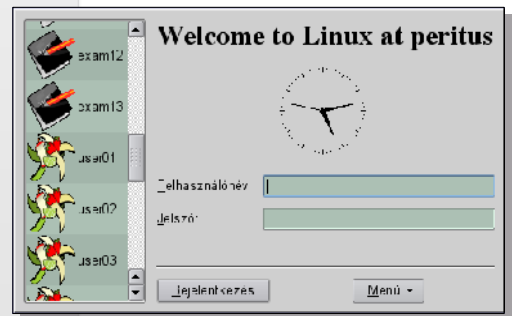
- Scaled hardware with suitable reserves
- Standardized existing tools can be integrated
- Group of server functions
- Organization is reflected in IT through setting the file structure and user profiles
- User environment
- Special applications can be installed subsequently
- Unique services related to operation

## Open source code

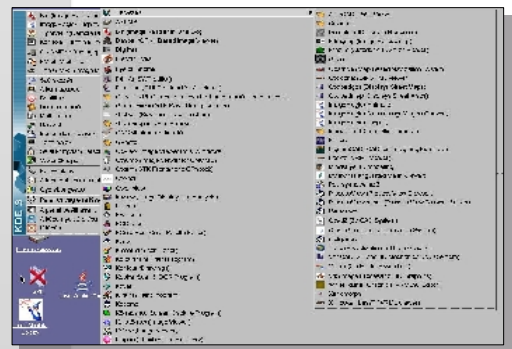
- Freedom for users and developers
- Full scale of universal applications
- Expanded documentation system
- Client comfort services

## Closed system

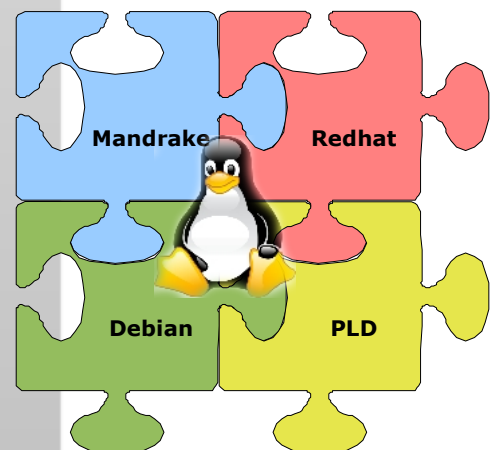
- Overall guarantee for permanent operation
- Unique firewall, protection against external attacks
- Intelligent profile management
- Continuous version control



**Login screen**



**Several thousand applications**



**Linux based open source code system**



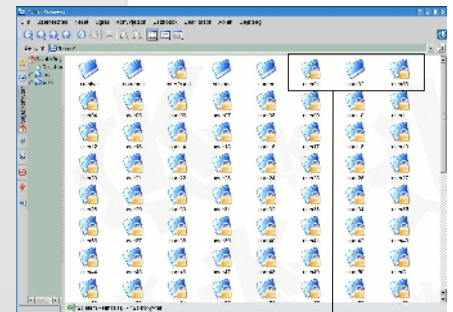
# Security

## Against external attacks

- Unique firewall solution
- Acceptance of response given to internal initiation only
- Root and others profiles are excluded
- Everything is stored as data file
- Environment unknown for viruses
- Virus activation can happen only by user mistake

## Against internal attacks

- Backup server with up-to-date backups
- User areas are protected
- The authorization to common areas is settled
- Additive backup technique



***User surfaces are protected***

# Cost efficiency

## Investment costs

- Better price-value ratio
- Longer life cycle

## Operation costs

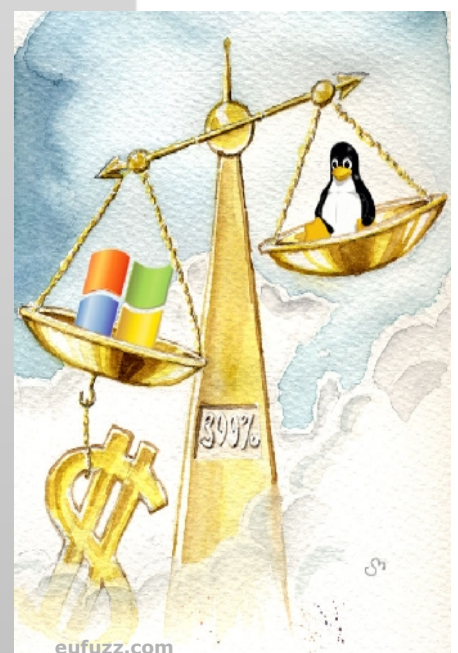
- Low level of energy consumption
- System operator instead of system administrator
- Large number of diagnostic functions

## Service costs

- Server professional layout
- Terminal only contains electronical devices

## License fees

- Free software in majority
- Paying versions are less expensive



# Software features



## Large number of applications

HaXSoN<sup>®</sup> has collected the most significant applications of several Linux distributions into a consistent environment, thus summing it up into a distribution containing more than 11 thousand packages as of today.

## Not a box software

The server is optimized to the pre-defined hardware, so available capacity is used at the most efficient way.

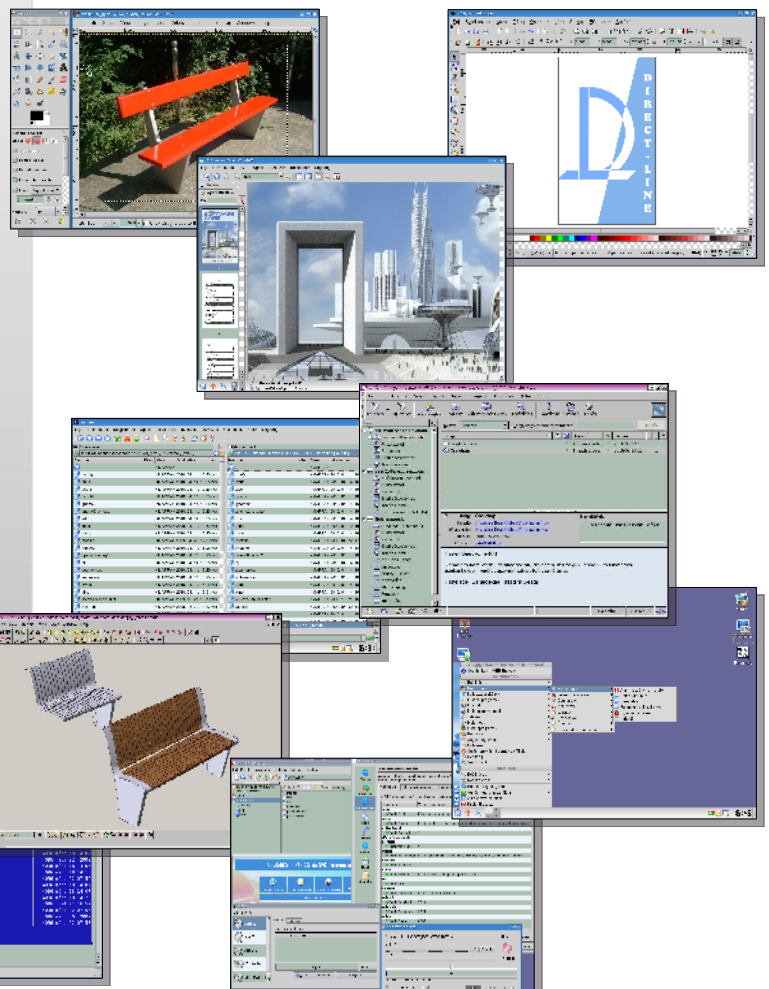
# Applications

## Universal applications

- Word processing
- Table processing
- File management
- Internet browser
- Graphical applications
- Email, chat
- CD, DVD writing
- etc.

## Professional applications

- Web development
- 3D modelling
- Database management
- ERP
- Network use
- Character based applications
- Different development environments
- etc.



## System differences

### Differences compared to the most widespread PC systems

	Windows	HaXSoN©
License fee	High	Not existing for universal applications, cheaper for paying versions
System type	Closed source code, closed format	Open source code, standardized data structure
Development possibilities	Development at manufacturer	Development can be taken into own hands
Upgrades	Continuous pressure for upgrades and enhancements	Thoroughly tested system, conservative development policy, change only in justified cases
Operation logic	One task, one user	Multi-task, multi-user
Where do applications run?	On workstations	On the server
User limitations	The user can login only on own PC	The user can login on any terminal
Protection against external attacks	On workstations, on the server	On the server
Protection against internal attacks	Required	Solved by user profile management
System surveillance	The interaction of system administrator is required	System operator
Locale management	New locale, new license	Locales can be set
Standards	It mostly does not comply with standards	It complies with standards
Compatibility with other systems	Low	High

## HaXSoN novelty

- Fully implemented network solution
- Several automated, uniquely development comfort functions
- Unique protection system, no virus problems
- 11.000 packages in consistent environment, automated maintenance
- Each application is shareable
- Extended use of locales to manage languages
- Optimization to hardware capabilities
- Development environments in different programming languages
- The developments of others can be integrated easily
- Automatic boot technology
- Special deployment solution

**HaXSoN 64**<sup>®</sup>  
Hardware-XWindow-Software-Network

## What does HaXSoN solve?

- Full scale operation system, several applications for each general function
- Hungarian font set in unified structure
- It can be used at different levels of IT education
- Ideal to establish the professional IT background of large companies and SMEs
- Private purpose use, family networks
- It might represent a unified platform in business administration
- Excellent opportunities for further system developments
- Special unique systems





# User benefits

- Noiseless, comfortable workplaces
- Cost saving
- Advantages raised from locale customization
- Hungarian development
- Automatic protection and comfort functions
  - Filtering duplications
  - User profiles set by the system
  - Switch in/off
  - Backups
  - Sending system messages, warnings
  - Large number of diagnostic functions
  - Rational allocation of resources
  - System clock surveillance, harmonization to world clock
  - Wide scale of system logs
  - Digital signature
  - Different archiving formats
  - Virtual terminal



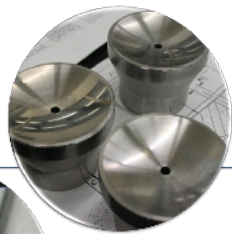
**HaXSoN®**  
**User manual**



## IT services

- Assessment of client needs, design of hardware infrastructure
- Deployment of network, connection of printer and other peripherals
- Installation of HaXSoN operation system
- Setting access rights and further parameters
- Training of local system administrator
- System operation
- Regular maintenance, upgrades

## **Our further services**



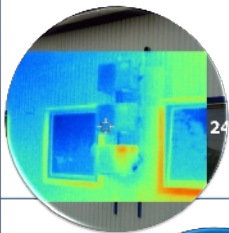
***Integrated engineering***



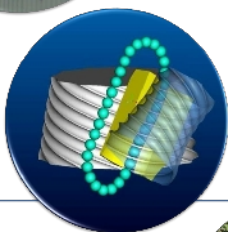
***High precision technologies***



***Design and implementation of solar collector systems***



***Energy rationalisation, energy monitoring***



***Product and technology development***



***Production and sales of own developed products***

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14 street Jedlik Ányos

H-2330-Dunaharaszti

Phone: +36 (24) 492-111

Fax: +36 (24) 492 112

email: [info@dldh.hu](mailto:info@dldh.hu)

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