



# UDS Enterprise

## UDS Enterprise in educational environments

www.udsenderprise.com

### Introduction

This document analyzes the specific user station problem at educational organizations and the benefits obtained by adopting and implementing a desktop virtualization platform with UDS Enterprise.

### Education, a complex environment

The educational environment is a complex environment on an IT level, very possibly more than many critical business platforms.

An educational campus (high schools, universities, business schools, etc) needs to deploy hundreds of applications and user stations to provide service to the faculty, the students and its own administrative staff.

Furthermore, it must have multi-disciplinary classrooms where different courses are taught, with completely different software that needs to be ready in a very short period of time.

Many of the tools used in Education are Open Source, which generally means that they will require the deployment of user stations under Linux OS in its different versions.

Likewise, there are tons of different platforms that the user must access within their training plan (laboratories, office environments, specific software for different courses, etc).

With the high rotation of different users through the same station and the use of different stations by a single user, it is very complicated to guarantee the stability and operation of different systems.

Another characteristic of these types of environments is the heterogeneity of the authentication systems adopted by the different organizations.

### Facing challenges with UDS Enterprise

Thanks to UDS Enterprise and its differentiating characteristics, it is possible to face all of these challenges in an effective, simple and economic way:

#### Native Windows and Linux Desktop Support. <sup>(1)</sup>

**Multi-hypervisor.** UDS Enterprise is capable of managing and deploying, from a single console, VDI platforms or IP services on different hypervisors simultaneously<sup>(1)</sup>

- <sup>(1)</sup> *With these two functionalities, any educational organization can use different platforms for deploying virtual desktops, with students and professors accessing the different educational tools available on the university campus and guaranteeing access to PCs in the administrative environment of working personnel. The use of different hypervisors permits optimization of hardware, administrative and economic resources.*



**Multi-authenticator.** UDS Enterprise allows you to assign virtual desktops to users and user groups from various sources at the same time and with a practically unlimited number of configurations <sup>(2)</sup>

**Creation of users, groups and meta-groups.** The metagroups are used to permit users who belong to several groups with the same name within the organization to connect to virtual desktops <sup>(2)</sup>



**Authentication system based on connection device.** UDS Enterprise permits the assignment of virtual desktops to specific connection devices depending on their IP address, MAC, etc, providing the system with great flexibility <sup>(2)</sup>

<sup>(2)</sup> These three UDS Enterprise characteristics allow us to define different criteria for assigning virtual desktops, for example:

- By connecting classroom
- By course
- By user type (faculty, students, administrative staff)
- By educational organization. It is possible for an educational organization to permit students from other organizations to access virtual desktops without registering the student in its authentication system

**Multi-protocol.** UDS Enterprise permits connection to virtual desktops or physical resources by using practically any connection protocol simultaneously. <sup>(3)</sup>

<sup>(3)</sup> *The support of multiple protocols, depending on the characteristics of the assigned virtual desktop (applications, target remote device and the characteristics of the connection network), will allow to specify which connection protocol we will use, allowing us to choose between licensed and non-licensed, with the consequent savings in costs, consumption of resources, consumption of bandwidth, etc.*

**WAN Security Access SSL.** UDS Enterprise makes secure connections to virtual desktops via tunneler, without requiring a heavy client, third-party products or product modules with additional costs. <sup>(4)</sup>

**User access from any web navigator and OS** without requiring client software, through connection plug-ins. The access may be made using RDP via HTML5. <sup>(4)</sup>

<sup>(4)</sup> *These UDS Enterprise characteristics guarantee the organization connection to the deployed desktops from any device and practically any location.*

**Practically unlimited configuration possibilities.** UDS Enterprise incorporates an additional module management system and the definition of configuration variables on two levels:

- Definition of systematic configuration variables <sup>(5)</sup>
- Definition of independent module configuration variables <sup>(5)</sup>

**Possibility of tool personalization** via personalized development in a simple, quick and effective way. <sup>(5)</sup>

**Easy integration with third-party software.** <sup>(5)</sup>

<sup>(5)</sup> *Thanks to these functionalities, UDS Enterprise can be easily integrated with different educational platforms, which will allow us to:*

- *Integrate with LMS (Learning Management System) platforms*
- *UDS Enterprise currently integrates with Moodle, the most used Open Source learning platform in the world, through the PC Virtual Plugin*
- *Integrate with different connection devices*
- *Plan the deployment of virtual desktops according to classrooms, temporary courses, etc*
- *Reserve virtual desktops*



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### Case studies

**Manuel Galán Lara, Computer Services Manager at the University of Jaén:**

"We chose UDS Enterprise due to the possibility of deploying Linux and Windows desktops and for the support of a diverse variety of communications and authentication protocols".

**Victoriano Fco. Giralt García, ICT Director of the University of Málaga:**

"Moodle is the first LMS platform with access to VDI thanks to the UDS Enterprise Virtual PC Plugin".

**Miguel Rueda, Computing and Communications Service Area Director at the University of Sevilla:**

"We were looking for new, sustainable DaaS models with an Open Source base that could easily be integrated into our digital ecosystem".

**Julio Álvarez, Head of Systems of the Technical Unit of Computer Support of the UAM:**

"We wanted to deploy Linux desktops and UDS Enterprise was the only VDI solution that allowed it."

**Antonio Serna, Responsible for Open Access Classrooms (ALAS) of the University of Murcia:**

"With UDS Enterprise, deploying a classroom is much simpler and more homogeneous for IT, it can manage hundreds of machines from a central point."

**Abelardo Belaustegui, Coordinator of Systems and Central Infrastructures of the Computing Area of the University of Cádiz:**

"VDI is a revolutionary concept and UDS Enterprise brings a drastic simplicity and savings of resources".

**Iban Maruri, Head of the Systems Department of Lea Artibai Ikastetxea:**

"We are saving costs and reducing IT work; now IT workers have an easy and simple VDI tool".

### Support and professional services

VirtualCable sells UDS Enterprise through a subscription model, including product support and updates in segments based on number of users.

Additionally, VirtualCable offers a broad portfolio of professional services to install and configure UDS Enterprise and other virtualization technologies.

For further information visit [www.udsenderprise.com](http://www.udsenderprise.com) or email us at [info@udsenderprise.com](mailto:info@udsenderprise.com)