



UDS Enterprise 4.0 Functionalities



#SmartDigitalWorkplace
VIRTUAL CABLE

Index

Introduction	2
UDS Enterprise features	3
Hypervisor platforms, clouds and Service Providers.....	3
Authenticators	4
Services.....	5
Connection protocols.....	6
Devices.....	7
Other features.....	8
About Virtual Cable's Smart Digital Workplace solution	9
About UDS Enterprise	9
About Virtual Cable.....	9

Introduction

UDS Enterprise is a cross-platform connection broker that enables the consolidation of desktop services. To achieve this, it supports various types of services, including:

- VDI: Automated deployment and management of virtual desktops with Windows and Linux operating systems.
- vAPPs: Virtualization of desktop sessions and applications on servers running Windows or Linux.
- Secure remote access to physical or virtual devices with Windows, Linux, or macOS.
- In short, UDS Enterprise manages user access to IT resources hosted in the Data Center or the Cloud.

UDS Enterprise features

Below are the main features of UDS Enterprise and the supported technologies:

Hypervisor platforms, clouds and Service Providers

Multi-platform support, being able to configure several of the hypervisors, clouds and service provider platforms at the same time.

These are the concurrently supported platforms:

- Amazon Web Services (AWS)
- Google Cloud
- Huawei Cloud
- Microsoft Azure
- Microsoft Hyper-V
- NodeWeaver
- Nutanix Acropolis AHV
- oVirt
- OpenGnsys
- OpenNebula
- OpenStack
- OVHcloud
- Nutanix Prism Central
- Proxmox
- Oracle Linux Virtualization Manager (OLVM)
- Scale Computing
- SharxDC
- VMware Cloud Director (vCloud)
- VMware vSphere
- XenServer / XCP-ng
- Connection to static machines: physical and virtual
- RDS: Virtual application sessions (vAPPs) and desktop sessions

Authenticators

Multi-authenticator support, allowing multiple authenticators to be configured simultaneously for users.

The following authenticators are supported concurrently:

- Active Directory
 - Single domain, Windows NT compatibility
 - Single domain, Windows 2000 and later compatibility
 - Active Directory Forest
- Entra ID
- eDirectory (Novell Directory Services - NDS)
- LDAP, in any of its versions
- Federated authenticators using the following protocols:
 - OAuth2
 - SAML V2
- By connection device IP address
- Radius
- Built-in UDS database, for environments without an external authenticator

Services

Multi-service support, allowing simultaneous configuration of desktop and application virtualization.

The following services and types are supported concurrently:

- VDI – Desktop Virtualization*
 - Windows
 - With user-defined password (WorkGroup)
 - With domain machine account (Active Directory)
 - Support for provisioning Windows desktops with random passwords
 - Linux
 - With user-defined password
 - With domain machine account (Active Directory)
 - Support for provisioning Linux desktops with random passwords
- vApp – Application Virtualization
 - Microsoft Windows applications
 - With Microsoft Windows client
 - With Linux client
 - Linux applications
 - With Microsoft Windows client
 - With Linux client

(*) Possibility to implement both persistent and non-persistent desktops for Windows and Linux.

Connection protocols

Multi-protocol support, allowing multiple connection protocols to be configured simultaneously and assigned to specific devices based on operating system or physical device address.

The following protocols are supported concurrently, depending on the service and system type:

- VDI – Desktop Virtualization
 - Windows
 - HTML5 RDP
 - HP Anyware (PCoIP)
 - Nice DCV
 - RDP
 - NoMachine
 - SPICE
 - Linux
 - HTML5 RDP
 - HTML5 SSH
 - HP Anyware (PCoIP)
 - NoMachine
 - RDP
 - SPICE
 - X2Go
- vApp – Application Virtualization
 - Windows
 - HTML5 RDS
 - RDS
 - Linux
 - X2Go

All protocols are accessible from both WAN and LAN environments.

The platform includes an automatic network detection mechanism to filter protocol access based on the IP address of the connecting device.

Devices

Access from almost any browser-enabled device via HTML5 connector.

UDS Enterprise enables connections from multiple low-cost devices, thanks to the integration of the HTML5 connector on platforms such as:

Obsolete or repurposed devices

- Thin Clients
- Zero Clients
- Raspberry Pi
- Chromebooks
- etc.

Support for Linux platforms and derivatives (*)

- CentOS
- Debian
- Fedora
- OpenSUSE
- Red Hat
- Ubuntu
- etc.

(*) Requires Python 3.9 dependencies.

You can also use Windows Server and Windows Desktop as client OS and/or VDI platforms.

Other features

- Multilanguage support: English, Spanish, French, Italian, German, Portuguese, Russian, Chinese, Basque, Catalan, and Arabic.
- Full and automated service lifecycle management through multi-level caching for efficient resource usage.
- Task scheduling.
- Calendar-based access control to services.
- Platform usage reporting.
- WAN connections secured via SSL tunnels.
- Split authentication and native support for Multi-Factor Authentication (MFA) using email, SMS, TOTP tokens, and RADIUS.
- Support for deploying corporate certificates for enhanced connection security.
- User reassignment capabilities for services.
- Selective user assignment to static machines (physical or virtual).
- User session control on static machines (physical or virtual).
- Compatible with MySQL-based databases.
- All components (Tunneler, Server, and Database) can be deployed in High Availability mode using load balancers or clusters.
- Components are provided as preconfigured virtual machines based on Debian Linux.
- Easy to deploy, manage, and use.
- UDS Enterprise can be deployed in just a few minutes.
- Minimal resource consumption (disk space, memory, CPU).
- Simple platform update process.
- Integration with e-Learning platforms (e.g., Moodle).
- Open Source foundation, enabling easy integration with third-party software.
- Customizable access portal and service dashboard to match corporate branding.
- Desktops and applications can be grouped into service groups.
- Service icons and images are fully customizable.
- Integration with notification systems (email and Telegram) for system event alerts.
- Built-in accounting module that logs service usage time.
- Advanced filtering in authentication systems and protocols based on source IP address detection.

About Virtual Cable's Smart Digital Workplace solution

About UDS Enterprise

[UDS Enterprise](#) is a new software concept to create a **fully** customized **workplace virtualization** platform. It provides **24x7 secure access**, from anywhere and on any **device** to all the applications and software of an organization or educational center.

It allows virtualization of **Windows** and **Linux** desktops and applications in a **single console**, as well as **remote access** to Windows, Linux and macOS computers. Its Open Source base guarantees **compatibility with any** third-party technology. It can be deployed **on-premise**, in public, private, hybrid or **multicloud** cloud. Even **combine** multiple environments at the same time and perform **automatic, intelligent overflows** to optimize performance and efficiency. All with a **single subscription**.

About Virtual Cable

[Virtual Cable](#) is a company specialized in the **digital transformation** of the **workplace**. The company develops, supports and markets UDS Enterprise. It has recently been recognized as an *IDC Innovator in Virtual Client Computing* worldwide. Its team of experts has designed **smart digital workplace solutions (VDI, vApp and remote access to physical computers)** tailored to **each sector** to provide a unique user experience fully adapted to the needs of each user profile. Virtual Cable's professionals have **more than 30 years of experience** in IT and software development and more than 15 years in virtualization technologies. Every day, **millions of Windows and Linux virtual desktops are deployed with UDS Enterprise around the world**.