

# UnifiedSessionsManager

Virtualisation and mobility for Personal Applications and Home Offices

## What is a virtual machine?

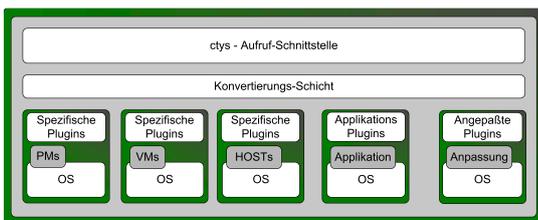
A virtual machine is the conversion of a physical computer into an ordinary program - actually an executable file.

## What are Sessions?

Sessions are complete sets of user interactions - also could be seen as a single login sessions.

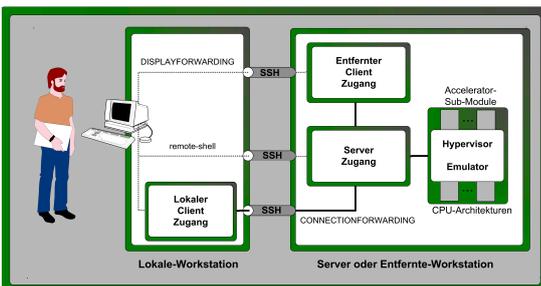
## What is Unified here?

Unified is here a Synonym for the integration of all supported hypervisors, emulators, and native access plugins by providing a common interface.



## What is the support of the Manager?

The meaning of the term manager comprises here the integration framework including the whole set of workflow definitions and related tools.



The Framework offers an extendible runtime system including the required base functionality. These comprise so called plugins which implement the functionality of the provided session types. Additionally base services for example related to addressing, administration, and security are provided by the framework, which includes also facilities for automation by MACROS.

## Application Examples

### Home-Office and Personal User Applications

The particular advances for an individual user are the automatic installation of guest OSs, the support of arbitrary user defined names and the automatic inventory scan for virtual machines. This is completed by the simple applicable backup workflow. The transparent provisioning of secure remote connections by usage of OpenSSH including the encryption of graphical desktop interfaces complements the automation features for careless mobility.

### Installation of Virtual Machines

The automated or dialogue based installation of virtual machines by provided tools enables also the casual user for safe provisioning of specific virtual machines. This is particularly provided by vendor independent tools supporting multiple vendors and products.

### Namebinding and Inventory Management

The custom assignment of arbitrary names as LABELS for a fully qualified address entity enables the simplified and smart handling of virtual machines. This is particularly complemented by the automated inventory scanning and management utilities for virtual and physical machines.

### Secure Internet Connections

The solely usage of OpenSSH encryption as the common communications channel for local LAN and remote LAN connections assures for a maximum of security by common standard tools. This particularly comprises the secure encryption of complete desktop session with graphical interfaces too. Thus a mobile user can safely and transparently interconnect for example to office applications by-passing various unsecure interconnecting networks.

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## Technical Data

### **Supported Host-Operating Systems 1.)**

Linux®: CentOS, Debian, Fedora, Mandriva, ScientificLinux, SuSE, OpenSUSE, Ubuntu

BSD®: FreeBSD, OpenBSD

SUN®: OpenSolaris, Solaris

### **Supported Hypervisors 1.)**

KVM®, QEMU®, VirtualBox®,

VMware®(Player/Server/Workstation), XEN®

### **Supported Guest-Operating systems 1.)**

Linux®: CentOS, Debian, Fedora, Mandriva, ScientificLinux, SuSE, OpenSUSE, Ubuntu

BSD®: FreeBSD, OpenBSD

SUN®: OpenSolaris, Solaris

Microsoft®: Windows®:NT, 2000, XP, 200x, DOS

FreeDOS: Balder

### **Supported Client-Operating systems 1.)**

Linux®: CentOS, Debian, Fedora, Mandriva, ScientificLinux, SuSE, OpenSUSE, Ubuntu

BSD®: FreeBSD, OpenBSD

SUN®: OpenSolaris, Solaris

### **Supported Graphical User Interfaces 1.)**

X11: Gnome, KDE, fvwm, xfce

### **Supported Consoles**

CLI, XTerm, gnome-terminal, Emacs, RDP, VNC, VMware, VMWRC

## Install Packages

Current supported formats are tgz(for all supported platforms) and rpm(CentOS and additional).

## Announcements

- Support for additional Linux distributions
- Extension of features for software development and test
- Functionality as evaluation and training system

1.) Partly limited functionality, for details refer to Releasenotes.

## Licenses

### **BASE-Package:**

- GPL3 Software
- FDL-1.3 - with invariant sections Basic-Documentation, see Releasenotes.

### **DOC-Package:**

- CCL-3.0 - NO-DERIV + NO-COMMERCIAL Extended documentation including the depicted concepts, processes and interfaces. Commercial - non exclusive - extensions are available.

## Development

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- IEEE
- FSF
- GI
- LinuxVerband e.V.
- VDE

Public release: 01.11.006u01 - 2010.07.14

## Sales

### **Vertrieb Soft- und Hardware Arno-Can Uestuensoez**

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