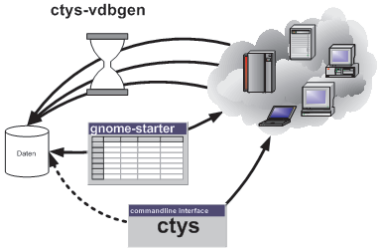
UnifiedSessionsManager

Virtualisation and Cloud-Computing as a personal Workspace

The UnifiedSessionsManager provides a scalable and neatless User and Adminstrations Interface for heterogeneous IT landscapes comprising various physical and virtual systems.

The technical focus is the simplified handling of individual and vendor independent distributed client and server based environments of various domains. The provided domain independent interfaces for application and automation comprise the creation, utilization, inventory generation, versioning, and administration in test and productive environments.

Therefore a framework including the required tools for the administration of network systems is deployed. The base components comprise the functions for the handling of huge amounts of machines by graphical and commandline interfaces.



Connections between machines and remote locations are secured by encrypted communications channels.

The UnifiedSessionsManager offers major cost savings by technical innovations. These target particularly systems administration, research and developement, module and systems tests. The major gains are the reduction of development and therefore deployment time, the reduction of general development costs. The enhancements thus lead to a common advance of flexibility for the customer driven processes as well as the internal requirements driven processes.

Applications

Systemsadministration

The integration and standardisation of physcial and virtual machines from multiple vendors, including native logins into contained systems, provides the systems administrator with interfaces for simplified installation, operations and maintenance of heterogeneous IT environments. This is provided e.g. by the scripting interface, group objects, and the standardized addressing.

Software Development, Modul and Systems-Test

The automated collection and administration of physical and virtual systems within an arbitrary number of databases - views/sets - supports the iterative process models by a simplified versioning and archiving of development environments, runtime systems, acceptance and unit tests. This comprises individual databases as well as the area of systems integration for the management of overall systems releases and versions.

Inventory Management and Desktop Integration

The provided ease of systematic archiving of complete development, test, and production environments opens for the opportunity of exactly reproducable environments by stored snapshots. The design of the interface particularly provides for the wide applicability by all project members for their own personal archiving of their individual releases. This is completed by a graphical database frontend for the selection and start of arbitrary machines and logins.

Automation

The script interface provides for fast integration of virtual systems components in personal runtime environments. This found e.g. the combination of complete systems with DejaGNU into comprising regression test facilities. The runtime resolution of actual addresses in addition provides for persistency of integration for complex dynamic User-Interfaces.

UnifiedSessionsManager

Virtualisation and Cloud Computing as a personal Workspace

Technical Data

Host OS 1.)

Linux®: CentOS, Debian, Fedora®, Mandriva®, RHEL®, ScientificLinux, SuSE®, OpenSUSE®, Ubuntu®
BSD®: FreeBSD, OpenBSD
SUN®: OpenSolaris®, Solaris®

Hypervisor 1.)

KVM®, QEMU®, VirtualBox®, VMware®(Player/Server/Workstation), XEN®

Guest OS 1.)

Linux®: Android®, CentOS, Debian, Enterprise-Linux®, Fedora®, Mandriva®, MeeGo®, RHEL®, ScientificLinux, SuSE®, OpenSUSE®, Ubuntu®
BSD®: FreeBSD, OpenBSD
SUN®: OpenSolaris®, Solaris®
Microsoft®: Windows®-NT, 2000, XP, 200x, DOS®
FreeDOS: Balder
Embedded: uCLinux, QNX®

Client OS 1.)

Linux®: CentOS, Debian, Fedora®, Mandriva®, ScientificLinux, SuSE®, OpenSUSE®, Ubuntu®
BSD®: FreeBSD, OpenBSD
SUN®: OpenSolaris®, Solaris®

User-Interfaces 1.)

X11, Gnome, KDE, fvwm, xfce

Consolen

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

Installation Pakages

Current version provides the formats tgz(all supported systems) and rpm(CentOS and additional).

Announcements

- OpenLDAP and ActiveDirectory Integration.
- OpenVZ
- Testautomation with DejaGNU, Expect, and Tcl/TK.
- Integration with Eclipse and Emacs.
- Functionality as Evaluation and Training System.
- Administration support for database servers.
- CUDA® Integration with GPGPU Administration.

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

Licenses

BASE Pakage:

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

DOC Pakage:

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

Concepts and Developments

Ingenieurbuero Arno-Can Uestuensoez
Zentnerstr. 34
D-80798 Munich
Tel.: +49.89.27817287
WWW: http://www.i4p.com

VatID: DE192143924

Memberships:

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

Releas: 01.11.011 - 2010.08.26

Exclusive Sales

Vertrieb Soft- und Hardware
Arno-Can Uestuensoez
Zentnerstr. 34
D-80798 Munich
Tel.: +49.89.27817287

VatID: DE192143924