



Portfolio of Products and Services

March 2009

The ONUVA Way: Making FOSS deliver measurable and sustainable value-added!

ONUVA is a global consulting firm which enables enterprise grade, business oriented and cost effective IT solutions using free and open source software (FOSS) based on open standards. We strive for high quality and full interoperability in all of our products and services.

The team

Our team is comprised of 50+ experienced professionals, mainly located in Venezuela, Ecuador and the United States. This superb technical staff has a proven track-record in the field, and has been involved in research, architecture, design, development, deployment, operation and maintenance of enterprise-grade solutions ranging from networking to business intelligence for public and private clients in the region.

Our customers span multiple industries and operate on a global basis. Our products and services support multiple operational and critical processes.

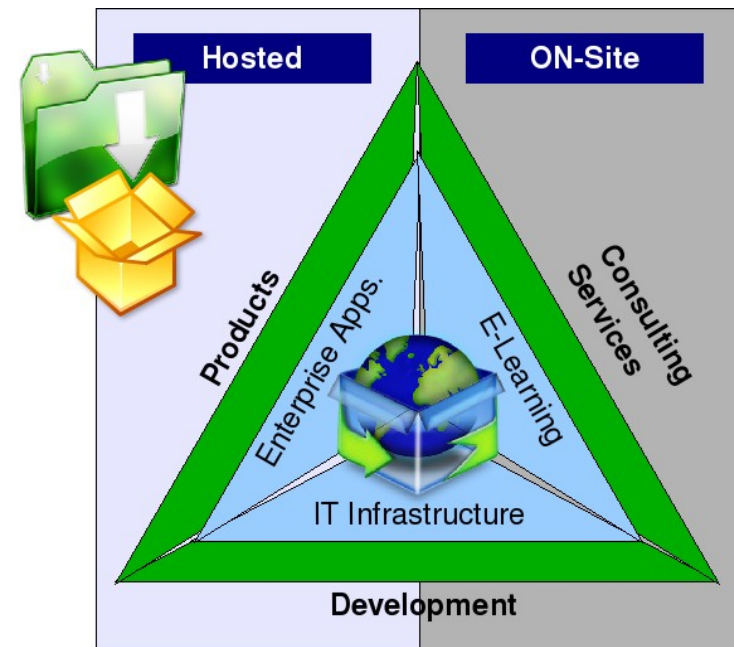


Portfolio of Products and Services

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Products and services

ONUVA's offering includes **original products** based-on FOSS and Open-standards. These allow customers to rapidly deploy and operate specific IT services with extremely favorable TCO (Total Cost of Ownership) and robustness. Our products are complemented and backed-up by a plethora of well-rounded and proven **consulting services** that enable our customers to favorably face challenging and ever-evolving business and organizational situations. As ONUVA operates a 24/7 platform, we are also able to offer **hosted and managed services** with extremely competitive cost structures, TCO and flexibility.





Portfolio of Products and Services

March 2009

IT Infrastructure

- Network services
- Domain control and single sign-on
- Messaging and groupware
- Clusterization, high-availability and virtualization
- Special purpose OS packaging and infrastructure
- Disaster Recovery
- Databases
- Information and platform security

Enterprise-grade Applications

- Document Management and archiving
- ERP / CRM
- BI (Business Intelligence) / DW (Data warehousing) / Risk Management / Prospective
- VoIP Call center management / ITIL-compliance operations



Portfolio of Products and Services

March 2009

| <i>Service Area</i> | <i>ONUVA Products</i> | <i>FOSS components</i> | <i>Consulting Services</i> | <i>Hosted Services</i> |
|--|--|---|---|--|
| Network services | <ul style="list-style-type: none"> ◆ ONUVA's NetON Appliance Server ◆ ONUVA's WebAC Appliance Server | <ul style="list-style-type: none"> ◆ ISC DNS/DHCP Server ◆ Linux Netfilter and Advanced IP Routing Control and QoS ◆ OpenVPN ◆ Squid Proxy Server with content filtering: Dansguardian and SquidGuard ◆ NTP Ref. Imp. ◆ IPv6 Tunnels and Router Advertisement Control ◆ FreeRADIUS | <ul style="list-style-type: none"> ◆ Site-wide DNS/DHCP solutions ◆ IPv6, IPv4/IPV6 Network Deployment ◆ Secure, interoperable VPN networks ◆ Site-wide advanced routing and traffic control ◆ Web Access Control and Compliance ◆ Time servers ◆ Integration with legacy directory services | <ul style="list-style-type: none"> ◆ 24/7 ONUVA's Network Operation Center ◆ Master/slave DNS outsourcing ◆ Public, low-offset NTP servers ◆ Web, database and application hosting |
| Domain control and single sign-on | <ul style="list-style-type: none"> ◆ ONUVA's OnDIR AS | <ul style="list-style-type: none"> ◆ OpenLDAP ◆ Fedora Directory Server ◆ phpLdapAdmin ◆ Apache Directory Studio ◆ MIT Kerberos KDC ◆ Samba 3/Samba 4 ◆ OCS Inventory-NG | <ul style="list-style-type: none"> ◆ Single- and multi-master distributed LDAP directories ◆ Domain Control and SSO for Microsoft Windows and Linux clients ◆ LDAP proxying and interoperability | <ul style="list-style-type: none"> ◆ Hosted LDAP directories for public applications |



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| | | <ul style="list-style-type: none"> ◆ Linux Pluggable Authentication Modules ◆ pGINA | <ul style="list-style-type: none"> ◆ Linux connectors for Microsoft Active Directory ◆ Hardware and software inventory and reports | |
| Messaging and groupware | <ul style="list-style-type: none"> ◆ ONUVA's Mail Cluster ◆ ONUVA's CACE Contact Center | <ul style="list-style-type: none"> ◆ Asterisk and FreePBX ◆ Zimbra Collaboration Suite, clustering (HA/LB) and Mobile ◆ Dovecot Mail Server ◆ Postfix MTA ◆ SpamAssassin, ClamAV and Postgrey under Amavis Content Filter ◆ Ejabber/OpenFire ◆ Horde Groupware ◆ OTRS/OTRS::ITSM ◆ GLPI ◆ Request Tracker ◆ Mailarchiva ◆ XAM | <ul style="list-style-type: none"> ◆ Asterisk VoIP PBX integral consulting ◆ Electronic messaging solutions ◆ Instant messaging solutions ◆ Groupware solutions ◆ Messaging services high availability and load balancing ◆ Integration with standards-based archiving platforms ◆ Ticket, incident and problem management | <ul style="list-style-type: none"> ◆ ONUVA's Maple: Zimbra-based mail provider ◆ Ecuador-Venezuela-USA SIP transit ◆ ONUVA's Issue Tracker |



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March 2009

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| Clusterization, high-availability and virtualization | | <ul style="list-style-type: none"> ◆ FreeNAS ◆ Heartbeat ◆ Linux Virtual Server ◆ HA NFS/Global File System ◆ Nginx ◆ Red Hat Cluster Suite ◆ Xen/OpenVZ ◆ VirtualBox/VRDP ◆ OpenNebula ◆ DRBD | <ul style="list-style-type: none"> ◆ High availability and load balancing cluster solutions for most platform applications ◆ Shared and distributed storage for NAS and SAN ◆ Para-virtualization and operating systems contention ◆ Cloud Computing | <ul style="list-style-type: none"> ◆ ONUBE: Cloud Computing capabilities for customers |
| Special purpose FOSS Operating Systems (OS) and platform | <ul style="list-style-type: none"> ◆ ONUVA's Rapid Distribution Deployment Methodology | <ul style="list-style-type: none"> ◆ Debian Live ◆ Reprepro ◆ APT Packaging Tool ◆ Puppet ◆ Clonezilla ◆ SystemImager | <ul style="list-style-type: none"> ◆ Design and development of purpose-specific APT-based operating systems ◆ Entry points: remote configuration management and software distribution ◆ Interoperability and systems integration ◆ End-user migration to Linux | <ul style="list-style-type: none"> ◆ Software mirrors |



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| Disaster recovery | | <ul style="list-style-type: none"> ◆ Bacula ◆ Clonezilla ◆ Partimage ◆ FreeNAS ◆ DRBD | <ul style="list-style-type: none"> ◆ Interoperable backup and restore solutions with integrity control and tape/robot management ◆ Data center replication and high availability | <ul style="list-style-type: none"> ◆ 24/7 ONUVA's Network Operation Center ◆ Remote storage |
| Databases | | <ul style="list-style-type: none"> ◆ MySQL/MySQL Cluster ◆ PostgreSQL/Slony ◆ DRBD ◆ EnterpriseDB ◆ CouchDB ◆ Heartbeat ◆ Linux Virtual Server ◆ NFS | <ul style="list-style-type: none"> ◆ ONUVA's DBA Services: data migration from legacy RDBMS, DB optimization, query reviews and integral auditing ◆ Database mirroring ◆ Database clustering with high availability (A/P, A/A) ◆ Database security and performance tuning ◆ Database access control ◆ Database auditing and monitoring ◆ Web service and database | <ul style="list-style-type: none"> ◆ Hosted databases |



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| | | | <ul style="list-style-type: none"> model integration ◆ Integration with industry NAS/SAN vendors | |
| Information security | <ul style="list-style-type: none"> ◆ ONUVA's Awareness Console ◆ ONUVA's SecTap ◆ ONUVA's Penetration Testing | <ul style="list-style-type: none"> ◆ Nagios ◆ Zabbix ◆ Prelude ◆ ntop ◆ OpenCA ◆ OpenPGP ◆ OpenSSL | <ul style="list-style-type: none"> ◆ Network monitoring, alerts and escalation ◆ Log aggregation and correlation ◆ Protocol monitoring, packet-level logging ◆ SSL Certification Authorities ◆ Multi-tier authentication mechanisms for critical services ◆ Integrity, authentication and encryption for electronic communications ◆ Penetration Testing ◆ Application-level Security Assessments | <ul style="list-style-type: none"> ◆ ONUVA's 24/7 Network Operation Center ◆ Remote CA Hosting |
| Business | ◆ ONUVA Reports | ◆ Pentaho | ◆ Datawarehousing | <i>see Databases and</i> |



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March 2009

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| Intelligence | | <ul style="list-style-type: none"> ◆ SpagoBI ◆ Mondrian ◆ Process Maker ◆ PostgreSQL ◆ MySQL | <ul style="list-style-type: none"> ◆ Top-to-bottom BI design and development ◆ Migration from legacy indicators (Excel et al.) | <i>Network Services</i> |
| Information and Knowledge Management | <ul style="list-style-type: none"> ◆ ONUVA's Docogen ◆ ONUVA's Corporate Yellow Pages | <ul style="list-style-type: none"> ◆ Knowledge Tree ◆ GNU Eprints ◆ Alfresco ◆ ORFEO ◆ CuteFlow ◆ Koha ILS ◆ PMB ILS ◆ Process Maker ◆ XAM | <ul style="list-style-type: none"> ◆ Turnkey document management systems with legacy integration ◆ Corporate knowledge management systems ◆ Turnkey Integrated Library Systems and data migration ◆ Document cataloguing and archiving consulting ◆ Integration with standards-based archiving platforms | <ul style="list-style-type: none"> ◆ Hosted Document Management Services |
| E-Learning | <ul style="list-style-type: none"> ◆ ONUVA's Student progress assessment and planification for | <ul style="list-style-type: none"> ◆ Moodle | <ul style="list-style-type: none"> ◆ Turnkey e-learning solutions: from paper to e-learning systems ◆ Module development for | <ul style="list-style-type: none"> ◆ Course hosting ◆ Tutor outsourcing |



Portfolio of Products and Services

March 2009

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|---------------------|-----------------------|------------------------|--|------------------------|
| | Moodle | | Moodle: student progress and integration with knowledge management | |



Portfolio of Products and Services

March 2009

Consulting services

ONUVA is able to face global challenges through an experienced consulting team. Our professionals know and develop FOSS and standard's-based software. **ONUVA** is able to deploy state-of-the-art solutions in a rapid manner, addressing specific needs for any organization or industry sector. Our focus is to serve as a one-stop-shop for enabling mission critical products and services that support corporate-grade TIC environments.

Development services

Got an idea or need that needs a solid, cost effective IT solution to support it? With years of successful experience developing applications based on FOSS and open-standards, **ONUVA's** development services provide tailored solutions with customer involvement from the very beginning of the project all the way to delivery and support.

Our team has experience developing in a huge range of technologies, including PHP, Perl, Python,



Portfolio of Products and Services

March 2009

C, C++, Java and Ruby, and masters development frameworks such as Symfony, Catalyst, Django and Rails. Do you need to exchange data with other systems? Think SOA with **ONUVA**. We can design and develop web services using technologies such as SOAP, XML-RPC and WSDL backed up by powerful databases such as MySQL and PostgreSQL.

No matter if you're an end user or a reseller (ISV), let our *Sales Team* know your specific needs, and we'll arrange the meetings and project planning that will satisfy your needs with you as a part of the team!

As lots of FOSS developers and community projects enable system integrators and end-users to enhance and distribute improvements of their products, **ONUVA's** *development services* build powerful, specially-tailored business-oriented applications for organizations (end users) and ISVs (OEM) on-top of key and sounded global FOSS initiatives. Our development team combines deep technical and functional know-how with agile-development strategies and tools. We add flexible project management techniques to accurately deliver on-time and on-budget application-objects and components. **The result:** Applications that can be deployed extremely rapidly, and intrinsically provide flexibility and value-added to your IT platform, thus significantly extending its life-cycle.



Portfolio of Products and Services

March 2009

Hosted services

ONUVA's 24/7 data center facilities can host several open source based applications such as Web Applications, Site Backups, Document Management Systems, E-Learning Systems, or even your message and mail servers! Let our *Sales Team* know your specific needs and we'll arrange a setup that is reliable, flexible and cost effective for you and your organization.

Support and maintenance

Mission Critical systems support key business processes for their users. This environment needs to be up and running on a continuous basis, and provide pre-set operational levels depending on industry standards, regulations or corporate best practices. **ONUVA** and its business allies are fully prepared to support these critical requirements. Through our unique partnership with HP (Hewlett-Packard) we can provide contractual-SLA (Service Level Agreements) that match customer operational requirements and serve as a one stop shop for operationally-demanding IT infrastructures, including all FOSS and Open-standard components.



Portfolio of Products and Services

March 2009

Our technical staff fully understand the needs of a wide range of organizations and industry sectors.

ONUVA makes FOSS and open standards deliver measurable and sustainable value-added to your IT and operational requirements over time!

This is THE ONUVA WAY!

Feel free to visit our website and contact our staff: www.ONUVA.com, your tie-line to superb FOSS-based IT products and services.