MONTHLY STATUS REPORT

April 2001

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VeriSign Registry Monthly Report – April 2001

This report provides an overview of VeriSign Registry activity through the end of the reporting month. The information is primarily presented in table and chart format with text explanations as deemed necessary. To simplify charts, numbers have been rounded to the nearest significant digit shown.

Information is organized as follows:

Table 1 displays the current number and status of the ICANN accredited registrars. The registrars are grouped into three categories:

1. **Operational Registrars:** Those who have authorized access into the Shared Registration System (SRS) for processing domain name registrations. It should be noted that operational registrars are not listed on the InterNIC.net web site until they specifically request the Registry to do so. This means that a registrar may be operational from the point of view of the Registry but not listed on the InterNIC site, so it is possible that the number of operational registrars shown below may differ from the number included on the InterNIC site.

2. **Registrars In The Ramp-Up Period:** Those who have received a password to access the Registry operational test and evaluation (OT&E) environment. The OT&E environment is provided to allow registrars to develop and test their systems with the SRS.

3. **Registrars In The Pre-Ramp-Up Period:** Those who have been sent a welcome letter from the VeriSign Registry but have not yet executed the Registry Confidentiality Agreement and/or have not yet submitted a completed Registrar Information Sheet. In most cases registrars are sent welcome letters via overnight express mail on the same day accreditation notification is received from ICANN.

Table 1 – Accredited Registrar Status –April 30, 2001

Status	# of Registrars
Operational Registrars	84
Registrars In Ramp-Up Period	44
Registrars In Pre-Ramp-Up Period	30
Total	**158**

Table 2 compares Service Level Agreement (SLA) Requirements with Actual Performance for the reporting month. As required by Section 18 of the ICANN-NSI Registry Agreement, the VeriSign Registry has negotiated an SLA with all accredited registrars. The SLA is incorporated into the NSI-Registrar License and Agreement that is executed with all operational registrars. **Note:** *The SLA permits two 12-hour windows per year to perform major upgrades.*

Table 2 – Service Level Agreement Performance –April 2001

Metric	SLA Requirement	Actual Performance
Total outage	8 hours	**3 hours 8 minutes**
Unplanned outage	4 hours	**0 hours 12 minutes**
Check domain average	3 seconds	**.05 seconds**
Add domain average	5 seconds	**.35 seconds**

Table 3 lists all current and planned 64-bit gTLD servers. The VeriSign Registry is responsible for operating and maintaining the Domain Name System (DNS) generic top-level domain (gTLD) name servers that support the .com, .net, and .org domains. To optimize DNS services provided to the Internet community and accommodate for the continued growth of the Internet, the VeriSign Registry re-architected the DNS infrastructure. This included replacing the current 32-bit name servers with more powerful 64-bit systems that will improve the availability, reliability, and performance of the DNS services. This also included placing the servers closer to the topological cores of the Internet where they are now more accessible to a greater number of hosts and users. In conjunction with this task, the gTLD server function is being separated from the root server function.

Table 3 – gTLD 64-Bit Server Project Status –April 30, 2001

gTLD Server	Under NSI Control?	64-bit Implementation	Location
a.gtld-servers.net	Yes	Completed	Herndon, VA USA
b.gtld-servers.net	Yes	Completed	Mt. View, CA USA
c.gtld-servers.net	Yes	Completed	Dulles, VA USA
d.gtld-servers.net	Yes	Completed	Herndon, VA
e.gtld-servers.net	Yes	Completed	Los Angeles, CA USA
f.gtld-servers.net	Yes	Completed	Seattle, WA USA
g.gtld-servers.net	Yes	Completed	Mt. View, CA
h.gtld-servers.net	(future)[1]	Unknown	Amsterdam, NL
i.gtld-servers.net	Yes	Completed	Stockholm, SE
j.gtld-servers.net	Yes	Completed	Tokyo, JP
k.gtld-servers.net	Yes	Completed	London, UK
l.gtld-servers.net	Yes	Completed	Atlanta, GA USA
m.gtld-servers.net	Yes	Completed	Hong Kong, CN

Table 4 summarizes the zone file access activity for the current reporting month. As required by Section 19 of the ICANN-NSI Registry Agreement, the VeriSign Registry provides third parties bulk access to the zone files for the .com, .net, and .org TLDs.

Table 4 – gTLD Zone File Access Activity April 2001

Zone file access passwords previous month –3/01	829
New zone file access passwords	21
Total zone file access approvals end of reporting month –4/01	**850**

Table 5 shows significant releases that have occurred since November 1999. The VeriSign Registry Shared Registration System (SRS) is continually being improved to better meet the needs of accredited registrars.

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[1] h.gtld, will be added to the root zone as the 13th gTLD server

Table 5 – Completed Shared Registration System Releases

Release Name	Features	Target Date	Complete Date
Auto Transfer ACK	1. Change of automated domain transfer response from "nack" (or reject) to "ack" (or accept) after five days of no response from the losing registrar. 2. "Live" date fixed per NSI/DOC/ICANN agreements.	10 Nov 99	10 Nov 99
NACK Credit	Credit registrars for domain transfers that were automatically NACKed and not credited prior to the change from automated NACK to ACK	12 Nov 99	12 Nov 99
RRP "Listdomains" Patch	Remove "Listdomains" option from RRP name server "Status" command	20 Nov 99	20 Nov 99
Whois Phase 1	1. Change language to include disclaimer – refer to InterNIC site 2. Change pointer from registrar Whois to Registry Whois.	01 Dec 99	01 Dec 99
Richmond	1. Changes to RRP (Add, Renew, and Transfer) 2. Annual registration fee price change	15 Jan 00	15 Jan 00
Jamestown	1. Restructured zone, Whois, and data file extract and publish process 2. Database efficiency patches 3. Production log file analysis	29 Apr 00	29 Apr 00
Leesburg	1. Daily Transfer Reports 2. Disallow transfers during 60 days after new registrations 3. ADD and MOD commands to prevent 13 name servers	29 Apr 00	29 Apr 00
Herndon	1. Oracle 7.3 to 8.1 migration 2. IBM DB server Migration 　a. Improved database server scalability and availability. 　b. DB HA. 　c. DB File system Layouts. 　d. Training. 　e. Migration with parallel operations	10 Jun 00	10 Jun 00

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Release Name	Features	Target Date	Complete Date

Bull Run	1. SIGNIFICANT improvements in system Reliability, Availability, and Serviceability to encompass all four product groups – Web Tools, Data Services, Directory Services and SRS.
	2. User requested functionalities to include
	  a. Seven new features to the Registrar Tool
	  Modify subject line on e-mails to include domain
		23 Sep 00	23 Sep 00

Multilingual	Start of multilingual test bed registrar certification process	17 Oct 00	17 Oct 00
Multilingual	Start of the "registration only" phase of the multilingual test bed.	10 Nov 00	10 Nov 00
Multilingual	Start of resolution stage, phase 1.	Dec 00	15 Jan 01
Fairfax 1	Improvements in data integrity and serviceability	Mid February	24 Feb 01
Multilingual	Addition of code points to support European languages	26 Feb 01	26 Feb 01
Multilingual	Start of resolution phase 2	Mid March	19 April 01
Multilingual	Addition of code points to support Southeast Asian and Indian languages	Late March	19 April 01
Fairfax 2	Availability of component applications	Late March	May 01
Multilingual	Addition of code points to support Middle Eastern languages	Apr 01	19 April 01
Caribbean	Multilingual Resolution 3.3, ACE in the Zone Files	May 22	
Nile	User feature improvements	Jul 01	
Escrow	Data escrow enhancements	TBD Q3 01	

Figure 1 displays the monthly growth trend in total Registry transactions. Transactions are executed by registrars via the Registry Registrar Protocol (RRP) with the Shared Registration System (SRS) and are divided into three categories in the **Table 6**.

1. **Query** – This category includes the following transactions: query a domain and query a server.

2. **Write** – This category includes the following transactions: adding a new domain, deleting a domain, modifying a domain name record, renewing a domain, transferring a domain, adding a server, deleting a server and modifying a server record.

3. **Check** – This category includes the following transactions: check a domain and check a server.
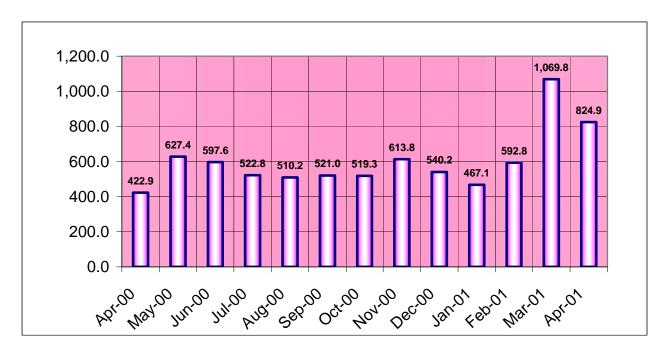
Figure 1 – Total Transactions by Month

Table 6 – Total Monthly Transactions by Category

	Query	%	Write	%	Check	%
Apr-00	5.4	1.3%	4.1	1.0%	413.4	97.8%
May-00	6.3	1.0%	4.2	0.7%	616.9	98.3%
Jun-00	6.3	1.1%	4.1	0.7%	587.2	98.3%
Jul-00	9.9	1.9%	3.5	0.7%	509.4	97.4%
Aug-00	12.5	2.5%	4.3	0.8%	493.4	96.7%
Sep-00	13.6	2.6%	5.4	1.0%	502.0	96.4%
Oct-00	21.4	4.1%	5.4	1.0%	492.5	94.8%
Nov-00	17.0	2.8%	4.9	0.8%	591.9	96.4%
Dec-00	17.0	3.1%	4.6	0.9%	518.6	96.0%
Jan-01	19.3	4.1%	4.7	1.0%	443.1	94.9%
Feb-01	22.0	3.7%	5.1	0.9%	565.7	95.4%
Mar-01	33.5	3.1%	7.1	0.7%	1029.2	96.2%
Apr-01	25.2	3.1%	6.5	0.0%	793.2	2.1%

Figure 2 - Trend in the number of total daily transactions. The range of transaction volume is shown for each month along with the average daily transaction volume.
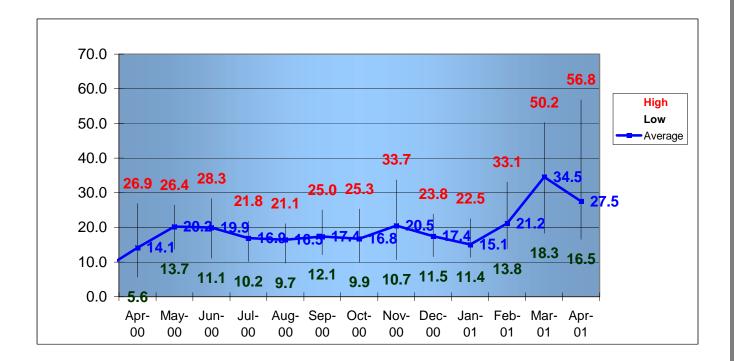
Figure 2 – Daily Transaction Range

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Figure 3 shows the percent of second-level domain names registered in each of the .com, .net and .org gTLDs as of the end of the current reporting month.
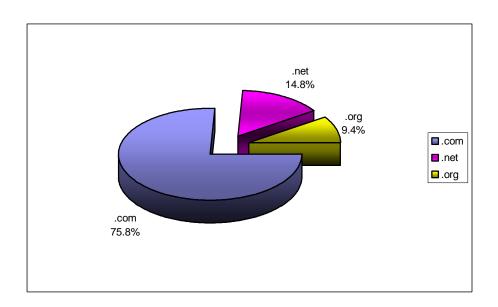
Figure 3 – TLD Registrations Distribution –April 30, 2001

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