What People Think of Security

The Firewall will protect us!

The Big Bad Internet
What Were You Thinking?

- Student in my Computer Security class tried to cheat
- Duh!
- Busted!
The Things That Scare Me

- Downloading a trojan to a www site through an input screen
- Metasploit Attack – why patching systems is critical
- Bluetooth Eavesdropping
- Gigapan Inaugural Shot
The Things That Scare Me

• Data Broker Acxiom
  • InfoBase Ethnicity System
    • “Broad & precise breakdown of ethnic, religious and minority classifications
    • Matches names against housing, income, education & other demographics

• Naviant Technologies
  • Processes online product registrations for companies like IBM
Things That Scare Me

• Weblining
  • Web version of redlining
    • Businesses used to redline entire neighborhoods
  • Companies use your personal data to limit your choices or pay more for products
    • www.businessweek.com/2000/00_14/b3675027
  • Companies offer products/services based on what you can afford
Google Searching Basics

• Google is the real world “Matrix” Oracle
• Ask the proper question to get what you really want
• main page button – “I Feel Lucky”
  • Forwards you to the highest rank page for the search term you entered
  • Usually the most relevant page for the search term
Google Searching Basics

• **Results Page**
  • Important item: size and date the page was last crawled

• **Google Groups**
  • USENET newsgroups are the oldest of the discussion groups
  • Good info there from the real geeks
  • Google Groups is the entire USENET archive since 1995
Google Advanced Operators

• Intitle, Allintitle
  • Title of a page is text within HTML TITLE tags
  • Intitle locates text in a title bar of a www page
    • Word or phrase is the search term
  • Allintitle says every single word or phrase is to be found in the title page
Google Advanced Operators

• **Intitle:** “index of” “backup files” is not the same as allintitle:”index of” “backup files”

• **Allintext:** locates a string within the text of a page

• **Inurl, allinurl:** finds text in a URL

• **Site:** search for pages that are hosted on a specific server or domain.
Google Advanced Operators

• **Filetype**: search for specific filetypes
  • See [http://filext.org](http://filext.org) for list of all known file extensions ~8K!
  • Google has examples of every one of them in its database
Google Hacking Basics

• Google cache allows you to crawl an entire www site without ever visiting it
• Cache banner says “This cached page may reference images which are no longer available.”
• This tells us something about how Google handles cache files
Google Hacking Basics

• Google cache allows you to crawl an entire www site without ever visiting it
• Cache banner says “This cached page may reference images which are no longer available.”
• This tells us something about how Google handles cache files
Google Hacking: Pre-Assessment

- Check out company HR www sites
  - intitle:intranet inurl:intranet +intext:”human resources”
- Usually provides names of contact people
- Check out Help Desk sites
  - site:company.com intranet |help/desk
- Automated email trolling
Google Hacking – Addresses

• Outlook Express, Eudora use .mbx files
  • Site:your.site –filetype:mbx mbx intext:Subject

• Finds mailboxes accessible via the net
• Find email, calendars, address books
  • site:your.site –filetype:pst pst ( contacts | address | inbox)
  • Modify filetype directive to search for particular email folders
Google Hacking – Blogs, IM

• People put all sorts of stuff in their blogs
• Search for person’s name, email address combined with homepage, blog, family to find their blogs
• Get a copy of their IM buddy list
• inurl:buddylist.blt to get them from Google
Google Hacking – Physical Scout

• Find corporate logs
  • Use for letterhead, ID badge (need pic of real ID badge…see below)

• Use Google Local (local.google.com) to find businesses near your target

• Use this info to find potential staff hangouts
  » Friday after work beer place, bar
  » Find closest coffee shops, diners, gas stations, take pics of employee badges
10 Simple Searches That Work

- **site:**
  - Troll through all of the content Google has on a target site
  - Use in conjunction with some of the other queries listed
  - Example: `site:washingtonpost.com` – `site:www.washingtonpost.com` locates pages in the domain other than `www.washingtonpost.com`
10 Simple Searches That Work

• `intitle:index.of`
  • Universal search for Apache-style directory listings
  • Directory listings yield a tremendous amount of information to the attacker
10 Simple Searches That Work

• **username | userid | employee.ID | “your username is”**
  • Can be used to build a list of usernames on the target system
  • Combine with the site: directive

• **password | passcode | “your password is”**
  • Shows pages that help you remember a password
  • Shows pages that help you create a password
10 Simple Searches That Work

• error | warning

• intitle:error
  • Searches for error messages on web pages that have the string “error” in them

• login | logon
  • Searches for login portals to a www site
  • Used to harvest usernames and troubleshooting procedures
10 Simple Searches That Work

- **admin | administrator**
  - Used to find who the key players are
  - Used to find administrative login pages
- **-ext:html –ext:htm**
  - -ext is a negative query that returns no results when used alone
  - Searches for filetypes
  - See [www.filext.com](http://www.filext.com) for list of all known file extensions
10 Simple Searches That Work

- `inurl:temp | inurl:tmp | inurl:backup |inurl:bak`
  - Combined with site operator
  - Searches for temporary or backup files or directories on a server
  - Also locates files that contain these terms as file extensions

- `intranet |help.desk`
  - Find help desk sites that might have a lot of information on how to do things at a site
Tracking Down Stuff

• Network cameras
  • `Intitle:snc-z20 inurl:home/` searches for Sony Network Cameras

• Laser Printers, copiers, fax, Toasters….

• Locate usernames
  • `filetype:wab wab` searches for Outlook Express Mail address books

• Locate password information
  • `filetype:htpasswd htpasswd` searches for HTTP htpasswd Web user credentials
Tracking Down Stuff

- AIM buddy lists
  - filetype:blt blt +intext:screenname
- Outlook Express email files
  - filetype:eml eml intext:”Subject” +From
- MSN Messenger contact lists
  - filetype:ctt messenger
Document and Database Grinding

- pdf
- doc
- txt
- xls
- ppt
- rtf
- wp
- wk1
- ps
- mdb
- Mcw, mw

- Adobe PDF file
- Microsoft Word doc
- Text file
- Excel or Works spreadsheet
- Powerpoint file
- Rich Text Doc
- WordPerfect doc
- Lotus 1-2-3 worksheet
- Microsoft Works doc
- Microsoft Access database
- MacWrite file
Document and Database Grinding

- `filetype:xls username password email` – passwords
- `inurl:admin filetype:xls` – administrative data
- `filetype:xls ssn` – social security # search
- `filetype:mdb inurl:users.mdb` – email address search
- `filetype:fp7 fp7` – FileMaker Pro DB I/F
- `inurl:pls/admin_/gateway.html` – Oracle login portal
- `inurl:main.php phpMyAdmin` - phpMyAdmin
Tracking Down Stuff

• Search for SSN, CCN

• Use VT Find_SSN, Find_CCN tools available from http://security.vt.edu

• Search for personal financial data
  • Quicken, MS Money, tax programs
  • Mbfs – MS Money backup files
  • tax – Intuit TurboTax Return
  • ptdb – Peachtree Accounting Database
  • stx – Simply Tax Form
SSN Finders or SSN Generators?

- Software to search for sensitive data on computers
  - Can they be used to generate SSN/CCN?
- Freeware
  - VT – Find_SSNs
  - Cornell – Spider
  - UT-Austin – SENF
- Commercial
  - IdentityFinder
About Us

Welcome

Juragan CC Team has been established since 2002, our core business is selling fresh and valid CC + CVV. We serve worldwide, no matter where you are, who you are and what you are as long as you paid us. We designed our website to make our clients can pick any items they like, anytime, anywhere, as long as you have sufficient balance.

All the CC we sell is private and guaranteed. For every CC grabbed from public FRESH CC LIST, will be automatically removed to client's private GRABBED CC LIST, so there is no possibility 1 CC grabbed by 2 clients or more. As well, if the CC you grabbed is declined, you can immediately post a complaint from the link that available at GRABBED CC LIST menu. We will refund your balance once your complaint is verified.

We have thousands of fresh and virgin CC + CVV in stock, but due to security reasons, we just upload not more than 100 CC to our database, but we will update it at least twice every day.

Below is the CC details that you will get from us:

> First Name
> Last Name
> Address
> City
> State
> Zip Code
> Country
> Phone
> Name on Card
> CC Number
> Exp Date
> CVV

Sorry, No NEWBIE allowed here!!!
Google or Yahoo the words:
6011, Discover, DOB, name, etc.
Why buy the cow when you can get the milk for free?
Obtaining Personal Information

- Public Records can be accessed from anywhere in the world.
- Local governments are allowing access to sensitive info via the Web without thinking about security.
County Clerks and Identity Theft

• Making legal docs available on the net w/o good security practices.
  • A secure www site isn’t enough
  • Tom Delay SSN From Public Records
  • Jeb Bush SSN From Public Documents
  • Colin Powell Deed of Trust
  • Colin Powell SSN from Public Records
• Do County Clerks (by extension, the state legislature) facilitate ID Theft?
What’s Going On Here?

• We’re spending $$$ to protect sensitive data (SSN) **but**....

• State govt is allowing SSN info to be obtained online **so**....

• Laws need to be coordinated **but**....

• Update: VA passed a law (7/1/08) that makes it illegal to distribute SSN legally obtained from public govt www sites 😊
D.C. Forging Surveillance Network
Privacy a Concern as 1st Phase Links 4,500 Cameras to Central Office

By Mary Beth Sheridan
Washington Post Staff Writer
Thursday, May 1, 2003; A01

The D.C. government is launching a system today that would tie together thousands of city-owned video cameras, but authorities don't yet have the money to complete the high-tech network or privacy rules in place to guide it.

The system will feature round-the-clock monitoring of the closed-circuit video systems run by nine city agencies. In the first phase, about 4,500 cameras trained on schools, public housing, traffic and government buildings will feed into a central office at the D.C. Homeland Security and Emergency Management Agency. Hundreds more will be added this year.

By making all those images available under one roof, officials hope to increase efficiency and improve public safety and emergency response. But civil libertarians and D.C. Council members say the network is being rushed into place without sufficient safeguards to protect privacy.

"The planning has been wholly lacking," said council member Phil Mendelson (D; At Large), chairman of the Committee on Public Safety and the Judiciary, who plans to hold a hearing on the project.

With its vast reach, the system underscores how security cameras have multiplied since the Sept. 11, 2001, terrorist attacks. By this fall, the District will have installed about 5,600 closed-circuit cameras, about triple the number it had in 2001. Tens of thousands of other cameras have popped up at monuments, banks, stores and other places.

Elsewhere, New York has announced a network of 3,000 public and private cameras to protect Lower Manhattan. Chicago's emergency management office will soon have access to more than 6,000 cameras run by schools, police and other agencies.
The Twisted Mind...

• If you’re not doing anything illegal, you shouldn’t care whether you’re “surveilled”

• What if I just want to track you?
  • NY Times article on bored security staff tracking people on the streets…. 
T-Mobile said the company's computer forensics and security team were "actively investigating to determine how Ms. Hilton's information was obtained."

"We were shocked by mobile voicemail vulnerability," he said. "This is not about (cell phone) operator bashing. This is about generating attention. They knew this and haven't generated any action."
The Twisted Mind…

• Smart phones and PDA’s have become the electronic equivalent of the sticky note
  • Put my passwords in the device
• What if I drain your battery?
Cell Providers & Backups

• T-Mobile Sidekick Disaster: Danger’s Servers Crashed, And They Don’t Have A Backup

• Leaking crypto keys from mobile devices
  • http://news.cnet.com/8301-27080_3-10379115-245.html
Taking Advantage of the Surveillance Society We’ve Become.....
Welcome to FundRace 2008.

Want to know if a celebrity is playing both sides of the fence? Whether that new guy you're seeing is actually a Republican or just dresses like one?

FundRace makes it easy to search by name or address to see which presidential candidates your friends, family, co-workers, and neighbors are contributing to. Or you can see if your favorite celebrity is putting money where their mouth is.

By Cities
- New York
- Los Angeles
- Miami
- Chicago
- San Francisco
- Seattle
- Dallas
- Washington DC
- Salt Lake City

By Occupation
- Actor
- Attorney
- Teacher
- CEO
- CFO
- Programmer
- Producer
- Musician
- Analyst
8223 results found, showing 1 - 100

$12,940,520 was given by people who identified their occupation as "CEO".

$2,991,750 from 1,516 people to Republicans
$9,946,770 from 4,394 people to Democrats

Francis Walsh
CEO
National Retail Systems
$9,200
22 TWIN BROOKS RD
Saddle River NJ

Victor Mizrani
CEO
Self-Employed
$9,200
1306 BAYVIEW RD
Annapolis MD

Moo Bae
CEO
E&B Fashion Inc
$9,200
2425 E 30TH ST
Vernon CA

Stephen Cloobeck
CEO
Diamond Resorts
$9,200
3745 LAS VEGAS BLVD S
Las Vegas NV

Richard Weening
CEO
Cumulus Media
$8,200
10201 W INNOVATION DR
Wheaton IL
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<td>Attorney</td>
<td>Bob Graham</td>
<td>1720 Gailin Ave</td>
<td>Orlando</td>
<td>FL</td>
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<tr>
<td>A. Wayne Rich</td>
<td>Real Estate Developer</td>
<td>Bob Graham</td>
<td>507 E Gore St</td>
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<td>FL</td>
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<tr>
<td>Gwen C Rich</td>
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<td>Bob Graham</td>
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<td>FL</td>
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<td>Bob Graham</td>
<td>1415 Lancaster Dr</td>
<td>Orlando</td>
<td>FL</td>
</tr>
<tr>
<td>Hesam A Sahraian</td>
<td>Vice President</td>
<td>Bob Graham</td>
<td>PO Box 620623</td>
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<td>FL</td>
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<tr>
<td>Henry Sal</td>
<td>EZ Rent a Car</td>
<td>Bob Graham</td>
<td>120 E Marks St</td>
<td>Orlando</td>
<td>FL</td>
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<tr>
<td>Richard R Swann</td>
<td></td>
<td>Bob Graham</td>
<td>750 Gatlin Ave</td>
<td>Orlando</td>
<td>FL</td>
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<tr>
<td>KENAN ATLI</td>
<td>HOTEL OWNER</td>
<td>George W. Bush</td>
<td>3330 W COLONIAL DRIVE</td>
<td>Orlando</td>
<td>FL</td>
</tr>
<tr>
<td>Hugh John Baiocchi</td>
<td>PROFESSIONAL GOLFER</td>
<td>George W. Bush</td>
<td>3656 HALF MOON DRIVE</td>
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<td>FL</td>
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<tr>
<td>Larry Joe Baker</td>
<td>SELF-EMPLOYED</td>
<td>George W. Bush</td>
<td>7133 FOXWORTH COURT</td>
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<td>FL</td>
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<tr>
<td>Ray Bazzi</td>
<td>C. E. O.</td>
<td>George W. Bush</td>
<td>814 Oak St</td>
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<td>FL</td>
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<tr>
<td>David Bearman</td>
<td>Executive Vice President/</td>
<td>George W. Bush</td>
<td>20 N Orange Ave</td>
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<td>FL</td>
</tr>
<tr>
<td>Cindy Boyd</td>
<td>C.O.</td>
<td>George W. Bush</td>
<td>2005 TERRY TREE LINE</td>
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<td>FL</td>
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Welcome to our people finder, genealogy search, public records finder, and general investigation help service! We work hard to round up all the how-to information, as well as all the links and database connections you’ll need to do many kinds of people searches and investigations on the Internet. These are the same resources that professional investigators use in their online investigation work. If it is available online you’ll find it here. If it is not available online we point you in the direction you need to go to find the information or documents you need. Our help service is designed to save you the many hours of research it takes to locate all of the most useful and worthwhile online investigative resources. As promised, we have searched out all the best publicly available Internet databases and help links to aid you in your investigation work, and we keep them up-to-date for your use. We hope you enjoy our service and find it useful! We have guaranteed to help you find all the information that is publicly available on the internet about you or anyone else in the world. If you can’t find it here then it probably is not publicly available on the internet.
to tons of information others do not have. PLEASE use them wisely and responsibly!!

NEW LOCATE A CELL PHONE'S OWNER - You supply the cell phone number and this search finds the user's name and current billing address. The fee for this service is less than 1/4th the cost of going through a private investigator. Works in CANADA too! (CLICK HERE TO START YOUR SEARCH)

NEW LOCATE A PERSON'S CELL PHONE NUMBER - You supply a person's name and address and this search gives you the cell phone number registered to that person. Requires a fee. (CLICK HERE TO START YOUR SEARCH)

NEW LOCATE A PAGER OWNER - You supply the subject's pager number and this search gives you the user's name and correct address. Requires a fee. (CLICK HERE TO START YOUR SEARCH)

NEW UNLISTED TELEPHONE NUMBER SEARCH - You supply the subject's address and this search returns the unlisted phone number, as well as the resident's name and all other telephone number active at that address. Requires a fee. (CLICK HERE TO START YOUR SEARCH)

NEW UNLISTED TELEPHONE NUMBER REVERSE SEARCH - You supply the subject's unlisted/non-published phone number and this search returns the subject's name and address. Requires a fee. (CLICK HERE TO START YOUR SEARCH)

NEW DISCONNECTED TELEPHONE NUMBER SEARCH - You supply the disconnected telephone number and this search returns the forwarding address and new telephone number, as well as the name and service address of the disconnected phone. Requires a fee. (CLICK HERE TO START YOUR SEARCH)

NEW SOCIAL SECURITY NUMBER TRACE - You supply a name and Social Security number and this search returns the name associated with the SSN and the chronological address history, and the lastest address reported for the subject. Great for verifying an applicant's address, locating missing persons, obtaining previous address histories, and obtaining aliases to determine if a subject is using more than one SS number. Requires a fee. (CLICK HERE TO START YOUR SEARCH)
PROPERTY/REAL ESTATE SEARCH - You supply the subjects name and the State they live in and this search returns any properties they own or liens filed. Requires a fee. (CLICK HERE TO START YOUR SEARCH)

CELL OR LANDLINE TOLL CALL RECORD - You supply the subjects name and phone number (either a cell phone or landline) and this search returns a list of all toll calls made for one billing month and the date of each call. NOTE: This search can be used for research purposes only. If you find information you need to use for legal purposes you'll need to officially subpoena these records from the telephone carriers to use them in a court of law. Requires a fee. (CLICK HERE TO START YOUR SEARCH)

CRIMINAL RECORDS CHECK - You supply the subjects full name, date of birth, State and SSN (if available) and this search will return all criminal records for the subject on file with the US Government PACER system. Requires a fee. (CLICK HERE TO START YOUR SEARCH)

PHYSICAL ADDRESS OF A POST OFFICE BOX RENTER - You supply the subjects name, PO Box number and Zip Code and this search returns the subjects physical address of record from the Post Office. Requires a fee. (CLICK HERE TO START YOUR SEARCH)

DRIVERS RECORDS - MOTOR VEHICLE SEARCH (ALL STATES) - You supply name, drivers license number, State and date of birth and this search returns subjects driving record for past 3 to 7 years. Lists traffic violations, license suspensions, drug/alcohol convictions and current license status. Accuracy guaranteed! Requires a fee. (CLICK HERE TO START YOUR SEARCH)

USA PEOPLE FINDER SEARCH - You supply the subjects name and a past address (or a date of birth, or a Social Security Number). This search verifies an address on a subject, obtains previous addresses for seven to thirty years, and reveals aliases used. Locates a missing person. This is the most complete listing of current and archived names, addresses, and dates of birth available anywhere. We have access to over 150 million unlisted households that do not appear in our competitors’ data. (CLICK HERE TO START YOUR SEARCH)
NAME SEARCH BY STATE - You supply name and State. This search returns a name and any variations of the name including aka’s, latest and past addresses and the date the addresses were reported, an age or date of birth and sometimes a phone number. The search is nationwide. This is a great search if you are looking for someone and have very little to go on. Requires a $35.00 fee. (CLICK HERE TO START YOUR SEARCH)

PROFESSIONAL LICENSE SEARCH - You supply subjects license number (if it is available). This search returns Subjects License Status, the license holders name and address, if they are deceased, license type and number, degree, date of issue, date of expiration, and any Disciplinary Actions taken against a medical doctor. Information varies from state to state. (Does not include these states - IL,KY,LA,MC,MO,NV,ND,PA,SC,WV and WI). Requires a $20.00 fee. (CLICK HERE TO START YOUR SEARCH)

BANKRUPTCY SEARCH - You supply subjects name. This search returns results from over 9.5 million records of virtually every bankruptcy filing from 1/1/92 to current. Every record includes full names with some addresses, SSN# and in most cases full docket reports. Additional data fields include: attorney and trustee names, type of filing (chapter 7 or 11, etc.), status of filing (dismissed or discharged, etc.), dollar amount, hearing dates and more. This is a huge source of information. This search will also include a sweep of criminal records, civil records and appellate courts! This search is a POWERHOUSE OF INFORMATION ON ANYONE !!! Requires a $35.00 fee. (CLICK HERE TO START YOUR SEARCH)

FREE CRIMINAL RECORDS SEARCHES
OUR SPECIAL DATABASE LINKS PAGES

Many of the individual State related databases will be found in the STATE-BY-STATE RESOURCES section below. These include Courts and Court Records Databases, Unclaimed Property Databases, Inmate and Criminal Databases, Property Records, Criminal Databases, Wanted Lists, Child Support Databases, Missing Persons Databases, and MUCH MORE!!!

- HUGE SOURCE OF LINKS TO PUBLIC RECORDS SITES - A State by State listing. Hundreds of FREE searches of all types here. CLICK HERE NOW!
- Links to Federal Courts
- Government and University Name Searches
- Find Information About People. Email addresses, web pages, phone numbers, etc.
- Search for Military people
- Search US Newspaper Archives
- Database of 668,000+ U.S. Certified Pilots.
- Database of 260,000+ U.S. Certified aircraft mechanics
- U.S. Registered Aircraft Database. Find out who owns any airplane.
- Coast Guard Database of vessels by ID number.
- Coast Guard Database of vessels by vessel name.
- Search the Federal Register.
- List of Searchable State databases. HUGE STATE-BY-STATE RESOURCE HERE

OTHER MISC DATABASES AND SEARCH HELP LINKS

- Background info on 650,000+ Doctors
- Find out where places with names are located
Social Security Number Information and Codes

CLICK HERE TO RETURN TO MAIN MENU

Your social security number is a unique identification. You are the only person who has that number. But did you ever wonder what the numbers in your social security number mean? This report will tell you exactly what those numbers tell about you, and how to effectively use social security numbers as a means of identifying your customers.

Your social security number is made up of 3 parts called the AREA (XXX), GROUP (XX), and SERIAL(XXXX). I'll explain these parts separately. First, the AREA (XXX) has one of two meanings, depending on when you got your number. If you received your social security card before 1972, the area number shows what state you APPLIED for your card in. If you received your social security card after 1972, the area number shows the state you RESIDED in at the time you applied. Here is a list of the number combinations and their corresponding states.

000 NONE 387-399 WI 528-529 UT
001-003 NH 400-407 KY 530-NV
004-007 ME 408-415 TN 531-539 WA
008-009 VT 416-424 AL 540-544 OR
010-034 MA 425-428 MS 545-573 CA
035-039 RI 429-432 AR 574-AK
040-049 CT 433-439 LA 575-576 HI
050-134 NY 440-448 OK 577-579 DC
135-158 NJ 449-467 TX
580 VI (Virgin Islands) 159-211 PA
468-477 MN 581-584 PR (Puerto Rico)
212-220 MD 478-485 IA 585-NM
221-222 DE 486-500 MO
586RI (Pacific Islands - Guam)
The GROUP (XX) has no meaning other than to determine whether or not a number has been assigned. This is important to know, if you want to use social security numbers as identification for your customers. Here’s how you should use this information.

Every month, the Social Security Association publishes a list of the highest group assigned for each AREA. The order of assignment is odd numbers under 10, even numbers over 9, even numbers under 9 (except for 00, which is not used), and odd numbers over 10. So, for example, if the highest GROUP assigned for AREA 999 is 72, then a customer who gives you the social security number 999-04-1234 is a fraud, because even GROUPS under 9 have not yet been assigned.

The SERIAL (XXXX) portion has no meaning and is not assigned in strict numerical order. 0000 is never used. If you know what to look for, social security numbers are an important tool for screening customers.

SOCIAL SECURITY NUMBER INFORMATION

Click here to verify if an SS number is valid and what state it was issued in.

The Social Security Home Website

Social Security Number Verification

Search the Social Security Death Index.
Summary

• There are other search engines
  • Bing, Yahoo, Ask.com
  • Facebook, Myspace, Mugshot, Drupal, Joomla!

• County Courthouse www sites
• Real Estate/GIS www services
• Pay sites – Intellius
Questions?

• Randy Marchany, VA Tech IT Security Office & Lab, 1300 Torgersen Hall, VA Tech, Blacksburg, VA 24060
• 540-231-9523
• marchany@vt.edu
• http://security.vt.edu
References